

Thursday, December 24, 2009

Page 1 of 3
REQUEST NUMBER: 10-1101

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: 10-1101
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/28/2009

TURNAROUND/REPORT DUE: 1/27/2010

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	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	

Page 2 of 3

REQUEST NUMBER: 10-1101

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	
	SW-846:6850	1	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	
	SW-846:7470A	1	RE12-10-7860	W	12/22/2009	
	SW-846:7471A	1	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7838	R	12/22/2009	
	SW-846:9012A	1	RE12-10-7838	R	12/22/2009	

Thursday, December 24, 2009

Page 3 of 3

REQUEST NUMBER: 10-1101

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9012A						
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	

Final Page of REQUEST NUMBER 10-1101

Thursday, December 24, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1101C

LOS ALAMOS

REQUEST NUMBER: 10-1101

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/27/2010

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
RE12-10-7841	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7840	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7839	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7838	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7858	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7846	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7844	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7845	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7842	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7843	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7847	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7860	1	POLY	METALS+U-GEL	Nitric Acid	W
RE12-10-7860	1	POLY	SW-846:6850	Ice	W
RE12-10-7860	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

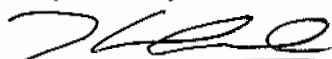
Date

Time

Received By:

Date

Time



12/28/09 3:00

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7844

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	QBT3		All h
TIME COLLECTED (HH:MM)		1314		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610696	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.75		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 7am 12/22/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 sandy silt, some clay, numerous rocks

FD RE12-10-7858

SAMPLE COMMENTS:

LOCATION DESC: 1a-4 7am 12/22/09
D4 west of firing pit

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpm

PID ambient reading 0.0 / 0.0 ppm

Bg ≤ 2230 dpm

HE negative

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Lacey A. Lopez

RELINQUISHED BY (Printed Name) TL McFarland (Signature) Tracy 207	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) Jay Williams (Signature) Jay Williams	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7839

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/21/2009		MEDIA:	OBT3		A11h
TIME COLLECTED (HH:MM)		1515		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610693	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.7		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	B	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, slightly damp, few rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

12-001(a)-01
T3m 12/21/091a-3
south of structure 12-4

FIELD SCREENING/MEASUREMENT RESULTS:

α ≤ 16 dpm
BY ≤ 2190 dpm

PID ambient reading 0.0 / 0.0 ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy McFarland	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7847

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	OBT3		Allh
TIME COLLECTED (HH:MM)		14:45		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610697			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.4		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.8		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	N/A			COMPOSITE TIME INTERVAL:	N/A		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	N/A		
				BOREHOLE DIRECTION:	N/A		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY 7m 12/22/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	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 sandy silt, moist

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-7
05 7m 12/22/09
north of firing pit

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16 \text{ dpm}$ PID ambient reading $\frac{0.0}{0.0} \text{ ppm}$
 $\beta \leq 1990 \text{ dpm}$

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy L. McFarland	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) Jay P. Lopez (Signature) Jay P. Lopez	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7845

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	QBT3		Alh
TIME COLLECTED (HH:MM)		1331		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610696			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.6		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 73m 12/22/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	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 dry silt

RE12-10-7860 FR

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-4 04 73m 12/22/09

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 77 \text{ dpm}$
 $\text{BY} \leq 2260 \text{ dpm}$
PID ambient reading $\frac{0.0}{0.0} \text{ ppm}$

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Lorey A. Lopez

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy R. McFarland	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7858

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	QBT3		AIH
TIME COLLECTED (HH:MM)		1314		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	12-610696		FIELD QC TYPE:	FD		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.75		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	12m 12/22/09 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 12/22/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE12-10-7844

Brown sandy silt, some clay, numerous rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-4

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 22$ dpm PID ambient reading 0.0
 $\beta \leq 2230$ dpm HE negative 0.0 ppm

COLLECTED BY (PRINT)
T. McFarlane

REVIEWED BY (PRINT) Lorey A. Lopez

RELINQUISHED BY (Printed Name) T. McFarlane (Signature) Tracy A. McFarlane	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7843

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	OBT3		A11h
TIME COLLECTED (HH:MM)		1214		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610695	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.4		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	NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY 12/22/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 silty sand, some rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-G 02 12/22/09
west of firing siteFIELD SCREENING/MEASUREMENT RESULTS:
 $\alpha \leq 11$ dpm PID $\frac{\text{ambient}}{\text{reading}} \frac{0.0}{0.0}$ ppm
 $\text{BX} \leq 2100$ dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Zant	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7841

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/22/2009	MEDIA:		QBT3
TIME COLLECTED (HH:MM)		1143	SUB-MEDIA:		TUFF 1
PRS ID:	12-001(a)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	12-610694	↓	FIELD QC TYPE:		NA
LOCATION TYPE:	GENERIC	↓	FIELD PREP:		NA
TOP DEPTH:	0	3.0	SAMPLE USAGE:		INV
BOTTOM DEPTH:	0	3.4	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 72h 12/22/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, some clay, some rocks

SAMPLE COMMENTS: NA

LOCATION DESC: ~~12-001(a)-03~~ 13m 12/22/09 1a-5, southwest of pit

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 33$ dpmPID $\frac{\text{ambient}}{\text{reading}} \frac{0.0}{0.0}$ ppmBY ≤ 1886 dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Smith	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7840

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	QBT3		Ally
TIME COLLECTED (HH:MM)		1127		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610694	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	Q	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	Q	0.7		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 12/22/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, some clay, rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

~~12-001(a)-03~~ 1a-5, southwest of pit
12m 12/22/09

FIELD SCREENING/MEASUREMENT RESULTS:

α ≤ 11 dpm
βγ ≤ 2430 dpmHE negative
PID ambient reading 0.0 ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) Th McFarland (Signature) Tracy 2m	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7838

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/10/2009	MEDIA:	QBT3	
TIME COLLECTED (HH:MM)		1508	SUB-MEDIA:	TUFF 1	
PRS ID:	12-001(a)	OK	SAMPLE TECH CODE:	HA	
LOCATION ID:	12-610693		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		Met+U+CLO4+CN	1-GAL POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

12-001(a)-01

1a-3
south of structure 12-4

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm $\beta \leq 2050$ dpm

HE negative

PID ambient reading $\frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Zwick	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7842

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA:	QBT3		AKH
TIME COLLECTED (HH:MM)		1200		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-001(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610695	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	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 12m 12/22/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 L	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 sandy silt, some rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 1a-6 02-12m 12/22/09
West of firing pitFIELD SCREENING/MEASUREMENT RESULTS:
 $\alpha \leq 55$ dpm
 $\text{BX} \leq 2250$ dpm
 PID ambient reading 0.0 ppm
 HE negative
COLLECTED BY (PRINT)
TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Ruth	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7846

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/22/2009		MEDIA: QBT3		Allh	
TIME COLLECTED (HH:MM)		1348		SUB-MEDIA: TUFF 1		NA	
PRS ID:	12-001(a)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	12-610697	↓		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:	B	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 12m 12/22/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L	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 silty sand, roots & rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 1a-7

05 12m 12/22/09 North of firing pit

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 50$ dpm $\beta \leq 2080$ dpm

HE negative

PID ambient
reading0.0
h6 ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy Zmt	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) [Signature]	Date/Time 12/22/09 1607
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2498

EVENT NAME: 4th Qtr. FY09 - SWMU 12-001(a) of CU 12-001(a)-99 - Threemile Cyn

SAMPLE ID: RE12-10-7860

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/22/2009	MEDIA:		NA
TIME COLLECTED(HH:MM)		1340	SUB-MEDIA:		OTHER
PRS ID: 12-001(a)		OK	SAMPLE TECH CODE:		DC
LOCATION ID: UNK		12-010696	FIELD QC TYPE:		ER
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		
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: NA		
			BOREHOLE DIRECTION: NA		

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

SAMPLE DESC: QC Sample of RE12-10-7845

SAMPLE COMMENTS:

Ringate

LOCATION DESC:

1A-4

FIELD SCREENING/MEASUREMENT RESULTS:

NA


COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Lacey A. Lopez


RELINQUISHED BY (Printed Name) TL McFarland (Signature) Tracy McFarland	Date/Time 12/22/09 1607	RECEIVED BY (Printed Name) (Signature) Lacey A. Lopez	Date/Time 12/22/09 1602
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

DATA VALIDATION COVER SHEET	
5121-1	Records Use only
Data Validation Cover Sheet	
	


Section I.							
REQUEST NUMBER: 10-1101		VALIDATION DATE: 02/09/10		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 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 associated with the water sample were performed on a LANL sample from another RN and that the raw data for the parent sample was not included in the data package. No sample data were qualified as a result.							
Reviewed by: Mary Donovan		Level: I		Date: 02/11/10			
VALIDATOR'S SIGNATURE: <u>David Schwent</u> DATE: 02/09/10							

Form 5121-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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

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

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

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

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 937881
 Extraction Type: Solid Prep
 Client Sample No. RE12-10-7841
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626001
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 85

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:09	per0106051a
14797-73-0	Perchlorate-101	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate-O(18)			5.69	ug/kg		1	06-JAN-10 21:09	per0106051a

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

DJS
02/09/10

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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7840
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626002
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 % Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.656	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate Isotope Ratio			3.05			1	06-JAN-10 21:31	per0106054a
14797-73-0	Perchlorate-101	.597	2.39	0.658	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate-O(18)			5.81	ug/kg		1	06-JAN-10 21:31	per0106054a

[^] 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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7839
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626003
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 88

CAS No.	Analyte ^A	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:38	per0106055a
14797-73-0	Perchlorate-101	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 21:38	per0106055a

^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: 937881
 Extraction Type: Solid Prep
 Client Sample No.: RE12-10-7838
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626004
 Date Filtered: 06-JAN-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	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:07	per0106059a
14797-73-0	Perchlorate-101	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate-O(18)			5.70	ug/kg		1	06-JAN-10 22:07	per0106059a

[^] 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: 937881
 Extraction Type: Solid Prep
 Client Sample No. RE12-10-7858
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626005
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 88
 Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:14	per0106060a
14797-73-0	Perchlorate-101	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 22:14	per0106060a

[^] 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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7846
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626006
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 88

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:21	per0106061a
14797-73-0	Perchlorate-101	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate-O(18)			5.19	ug/kg		1	06-JAN-10 22:21	per0106061a

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

*Concentration =
 Instrument Value X Concentrated Extract Volume X Aliquot
 1
 %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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7844
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626007
 Date Filtered: 06-JAN-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	06-JAN-10 22:28	per0106062a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:28	per0106062a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	06-JAN-10 22:28	per0106062a
	Perchlorate-O(18)			5.24	ug/kg		1	06-JAN-10 22:28	per0106062a

[^] 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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7845
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626008
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 92.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:35	per0106063a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate-O(18)			4.96	ug/kg		1	06-JAN-10 22:35	per0106063a

[^] 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: 937881

Extraction Type: Solid Prep

Client Sample No.

RE12-10-7842

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626009

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 86

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:42	per0106064a
14797-73-0	Perchlorate-101	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate-O(18)			5.53	ug/kg		1	06-JAN-10 22:42	per0106064a

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

DJS

02/09/10

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7843

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626010

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:49	per0106065a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate-O(18)			5.04	ug/kg		1	06-JAN-10 22:49	per0106065a

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

DJS
02/09/10

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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7847
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626011
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:56	per0106066a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate-O(18)			4.95	ug/kg		1	06-JAN-10 22:56	per0106066a

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

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

Form 1


Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 937887
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE12-10-7860
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101-1
 GEL Sample ID: 243627001
 Date Filtered: 05-JAN-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate Isotope Ratio						1	06-JAN-10 17:09	per0106017a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate-O(18)			0.472	ug/L		1	06-JAN-10 17:09	per0106017a

[^] 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


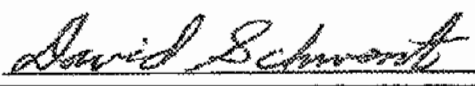
DATA VALIDATION COVER SHEET	
5118-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 


Section I.							
REQUEST NUMBER: <u>10-1101</u>		VALIDATION DATE: <u>02/10/10</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"/> LCMSMS PERCHLORATES				
<input type="checkbox"/> TPH-DRO	<input checked="" type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS				
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES					
<input type="checkbox"/> OTHER (DESCRIBE): _____							

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


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

- In the MB associated with the soil samples, Zn was detected. The Zn results of samples RE12-10-7858 and -7844 were detects >5X but ≤50X the MB concentration and, thus, were qualified J,I4a. All other associated sample results were detects >50X the MB concentrations and, thus, were not qualified, based on professional judgment. In the MB associated with the water sample, Se and As were detected. The Se result of sample -7860 was a detect ≤5X the MB concentration and, thus, was qualified U,I4. The As result of sample -7860 was an ND and, thus, was not qualified.
- In the CCB associated with the soil samples, Tl was detected. All associated sample results were detects ≤5X the CCB concentration and, thus, were qualified U,I4b. In the CCB associated with the water sample, Tl was detected. The Tl result of sample -7860 was a ND and, thus, was not qualified.
- In the FR blank, sample -7860, associated with all the soil samples, Ba, Mn, K, and Na were detected. The Na results of samples -7840, -7839, -7838, -7842, and -7843 were detects ≤5X the FR blank concentration and, thus, were qualified U,I4d. All other associated sample results were detects >5X the FR blank concentrations and, thus, were not qualified.


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
<p align="center">Data Validation Cover Sheet</p> <p align="right">  </p>	
<p>4. The soil MS %R of Co was < the laboratory LAL but $\geq 10\%$. All associated sample results were detects and, thus, were qualified J-I6a. Also, the soil MS %Rs of Al, Ba, Fe, Mg, Mn, and K were outside acceptance limits. However, the parent sample concentrations were >4X the spike concentrations. Based on professional judgment, no sample data were qualified.</p> <p>5. The soil duplicate sample RPDs of Ba, Co, and Mn were >35% and both the parent and duplicate sample results were $\geq 5X$ the PQLs. 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 the water ICP and ICP-MS batches 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>Mary Donovan</u> Level: <u>I</u> Date: <u>02/11/10</u></p>	
<p>VALIDATOR'S SIGNATURE: <u></u> DATE: <u>02/10/10</u></p>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input 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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	33. The IS area count for the quantitating IS is <60% but >10% for metals window in relation to the initial calibration blank. Follow the method-specific windows.	UJ, I1b	J, I1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The IS area count for the quantitating IS is >125% in relation to the metals initial calibration blank. Follow method-specific windows.	UJ, I1c	J, I1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I1d	R, I1d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. Serial dilution sample RPD was >10% and the sample result was >50X the MDL (>100X the MDL for ICPMS). Qualify ONLY the sample used for the serial dilution.	UJ, I18	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. Serial dilution sample was not analyzed with the samples.	UJ, I18a	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	38. The sample result was reported as detected between the IDL and the EDL.	N/A	J, I1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, I88	J, I88
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, I19	J, R, I19

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626001

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7841

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	16000000	ug/Kg		7780	22900	22900	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-36-0	Antimony	1150	ug/Kg		378	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-38-2	Arsenic	2.37	mg/kg		0.232	1.16	1.16	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-39-3	Barium J,110a	407000	ug/Kg	*	114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-41-7	Beryllium	1.24	mg/kg		0.0232	0.116	0.116	2	MS	SKJ	01/14/10 21:25	100114-4	937507
7440-43-9	Cadmium	276	ug/Kg	J	114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-70-2	Calcium	2420000	ug/Kg		9150	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-47-3	Chromium	67600	ug/Kg	*N	172	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-48-4	Cobalt J,16a	22800	ug/Kg	*N	172	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-50-8	Copper	8500	ug/Kg		343	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-89-6	Iron	16500000	ug/Kg		9150	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-92-1	Lead	22500	ug/Kg	*	286	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-95-4	Magnesium	2400000	ug/Kg		9730	34300	34300	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-96-5	Manganese J,110a	2150000	ug/Kg	*	1140	5720	5720	5	P	HSC	01/14/10 09:05	011310-2	937483
7439-97-6	Mercury	12.4	ug/kg	U	4.21	12.4	12.4	1	AV	JXL1	01/13/10 11:08	011310S1-5	940322
7440-02-0	Nickel	11.9	mg/kg	F	0.116	0.465	0.465	2	MS	SKJ	01/14/10 21:25	100114-4	937507
7440-09-7	Potassium	2490000	ug/Kg		36600	143000	143000	5	P	HSC	01/14/10 09:05	011310-2	937483
7782-49-2	Selenium	1.16	mg/kg	UN	0.581	1.16	1.16	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-22-4	Silver	725	ug/Kg		114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-23-5	Sodium	99300	ug/Kg		8010	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-28-0	Thallium U,14b	0.303	mg/kg		0.0697	0.232	0.232	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-61-1	Uranium	1.37	mg/kg		0.0153	0.0465	0.0465	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-62-2	Vanadium	35400	ug/Kg		114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-66-6	Zinc	31400	ug/Kg		378	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.517	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.509	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.573	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626002

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7840

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9340000	ug/Kg		8110	23900	23900	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-36-0	Antimony	1190	ug/Kg	U	394	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-38-2	Arsenic	2.04	mg/kg		0.233	1.17	1.17	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-39-3	Barium J,110a	136000	ug/Kg	*	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-41-7	Beryllium	0.745	mg/kg		0.0233	0.117	0.117	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-43-9	Cadmium	597	ug/Kg	U	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-70-2	Calcium	2100000	ug/Kg		9540	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-47-3	Chromium	9340	ug/Kg	*N	179	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-48-4	Cobalt J-,16a	4360	ug/Kg	*N	179	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-50-8	Copper	7670	ug/Kg		358	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-89-6	Iron	11800000	ug/Kg		9540	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-92-1	Lead	11000	ug/Kg	*	298	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-95-4	Magnesium	1820000	ug/Kg		10100	35800	35800	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-96-5	Manganese J,110a	345000	ug/Kg	*	239	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-97-6	Mercury	12.9	ug/kg	U	4.38	12.9	12.9	1	AV	JXLI	01/13/10 11:22	011310S1-5	940322
7440-02-0	Nickel	7.03	mg/kg	E	0.117	0.467	0.467	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-09-7	Potassium	1570000	ug/Kg		7640	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7782-49-2	Selenium	1.17	mg/kg	UN	0.584	1.17	1.17	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-22-4	Silver	396	ug/Kg	J	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-23-5	Sodium U,14d	82900	ug/Kg		8350	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-28-0	Thallium U,14b	0.165	mg/kg	J	0.07	0.233	0.233	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-61-1	Uranium	3.94	mg/kg		0.0154	0.0467	0.0467	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-62-2	Vanadium	24000	ug/Kg		119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-66-6	Zinc	26300	ug/Kg		394	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.511	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626003

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7839

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	17600000	ug/Kg		7700	22700	22700	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-36-0	Antimony	1130	ug/Kg	U	374	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-38-2	Arsenic	1.94	mg/kg		0.226	1.13	1.13	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-39-3	Barium J,110a	209000	ug/Kg	*	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-41-7	Beryllium	0.931	mg/kg		0.0226	0.113	0.113	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-43-9	Cadmium	566	ug/Kg	U	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-70-2	Calcium	2370000	ug/Kg		9060	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-47-3	Chromium	14700	ug/Kg	*N	170	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-48-4	Cobalt J-,16a	5830	ug/Kg	*N	170	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-50-8	Copper	7950	ug/Kg		340	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-89-6	Iron	15200000	ug/Kg		9060	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-92-1	Lead	14800	ug/Kg	*	283	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-95-4	Magnesium	2370000	ug/Kg		9630	34000	34000	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-96-5	Manganese J,110a	426000	ug/Kg	*	227	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-97-6	Mercury	4.63	ug/kg	J	3.98	11.7	11.7	1	AV	JXLI	01/13/10 11:24	011310S1-5	940322
7440-02-0	Nickel	7.56	mg/kg	E	0.113	0.452	0.452	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-09-7	Potassium	2040000	ug/Kg		7250	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7782-49-2	Selenium	1.13	mg/kg	UN	0.565	1.13	1.13	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-22-4	Silver	337	ug/Kg	J	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-23-5	Sodium U,14d	78500	ug/Kg		7930	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-28-0	Thallium U,14b	0.184	mg/kg	J	0.0678	0.226	0.226	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-61-1	Uranium	1.59	mg/kg		0.0149	0.0452	0.0452	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-62-2	Vanadium	29800	ug/Kg		113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-66-6	Zinc	29600	ug/Kg		374	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.501	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.581	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626004

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7838

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	14000000	ug/Kg		8280	24300	24300	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-36-0	Antimony	1220	ug/Kg	U	402	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-38-2	Arsenic	2.39	mg/kg		0.251	1.25	1.25	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-39-3	Barium J,110a	203000	ug/Kg	*	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-41-7	Beryllium	0.976	mg/kg		0.0251	0.125	0.125	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-43-9	Cadmium	609	ug/Kg	U	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-70-2	Calcium	2260000	ug/Kg		9740	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-47-3	Chromium	11700	ug/Kg	*N	183	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-48-4	Cobalt J-,16a	5760	ug/Kg	*N	183	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-50-8	Copper	9310	ug/Kg		365	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-89-6	Iron	14500000	ug/Kg		9740	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	304	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-95-4	Magnesium	2260000	ug/Kg		10300	36500	36500	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-96-5	Manganese J,110a	415000	ug/Kg	*	243	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-97-6	Mercury	13.8	ug/kg	U	4.68	13.8	13.8	1	AV	JXL1	01/13/10 11:26	011310S1-5	940322
7440-02-0	Nickel	8.56	mg/kg	E	0.125	0.501	0.501	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-09-7	Potassium	2260000	ug/Kg		7790	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7782-49-2	Selenium	1.25	mg/kg	UN	0.627	1.25	1.25	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-22-4	Silver	414	ug/Kg	J	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-23-5	Sodium U,14d	66300	ug/Kg		8520	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-28-0	Thallium U,14b	0.202	mg/kg	J	0.0752	0.251	0.251	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-61-1	Uranium	2.05	mg/kg		0.0165	0.0501	0.0501	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-62-2	Vanadium	28300	ug/Kg		122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-66-6	Zinc	29300	ug/Kg		402	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.525	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.51	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.557	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626005

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7858

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	4890000	ug/Kg		7500	22100	22100	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-36-0	Antimony	1100	ug/Kg	U	364	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-38-2	Arsenic	1.39	mg/kg		0.221	1.11	1.11	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-39-3	Barium J,110a	93800	ug/Kg	*	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-41-7	Beryllium	0.470	mg/kg		0.0221	0.111	0.111	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-70-2	Calcium	1850000	ug/Kg		8830	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-47-3	Chromium	8850	ug/Kg	*N	166	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-48-4	Cobalt J,16a	2700	ug/Kg	*N	166	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-50-8	Copper	5960	ug/Kg		331	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-89-6	Iron	8420000	ug/Kg		8830	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-92-1	Lead	7060	ug/Kg	*	276	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-95-4	Magnesium	1110000	ug/Kg		9380	33100	33100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-96-5	Manganese J,110a	232000	ug/Kg	*	221	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-97-6	Mercury	12.6	ug/kg	U	4.27	12.6	12.6	1	AV	JXL1	01/13/10 11:28	011310S1-5	940322
7440-02-0	Nickel	6.83	mg/kg	E	0.111	0.442	0.442	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-09-7	Potassium	1140000	ug/Kg		7060	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.553	1.11	1.11	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-22-4	Silver	327	ug/Kg	J	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-23-5	Sodium	84200	ug/Kg		7720	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-28-0	Thallium U,14b	0.118	mg/kg	J	0.0663	0.221	0.221	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-61-1	Uranium	2.39	mg/kg		0.0146	0.0442	0.0442	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-62-2	Vanadium	17100	ug/Kg		110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-66-6	Zinc J,14a	17500	ug/Kg		364	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.517	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.516	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.545	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626006

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7846

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	MP	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12600000	ug/Kg		7690	22600	22600	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-38-2	Arsenic	1.86	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-39-3	Barium J,110a	192000	ug/Kg	*	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-41-7	Beryllium	0.793	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-43-9	Cadmium	565	ug/Kg	U	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-70-2	Calcium	2060000	ug/Kg		9040	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-47-3	Chromium	18100	ug/Kg	*N	170	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-48-4	Cobalt J-,16a	6310	ug/Kg	*N	170	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-50-8	Copper	7140	ug/Kg		339	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-89-6	Iron	13500000	ug/Kg		9040	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	283	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-95-4	Magnesium	1970000	ug/Kg		9610	33900	33900	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-96-5	Manganese J,110a	460000	ug/Kg	*	226	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-97-6	Mercury	5.52	ug/kg	J	4.14	12.2	12.2	1	AV	JXLI	01/13/10 11:30	011310S1-5	940322
7440-02-0	Nickel	7.45	mg/kg	E	0.111	0.444	0.444	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-09-7	Potassium	1940000	ug/Kg		7230	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.555	1.11	1.11	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-22-4	Silver	348	ug/Kg	J	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-23-5	Sodium	83600	ug/Kg		7910	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-28-0	Thallium U,14b	0.194	mg/kg	J	0.0666	0.222	0.222	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-61-1	Uranium	1.49	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-62-2	Vanadium	28400	ug/Kg		113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-66-6	Zinc	25800	ug/Kg		373	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.503	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.512	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.56	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626007

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7844

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	7520000	ug/Kg		7760	22800	22800	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-38-2	Arsenic	1.31	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-39-3	Barium J,110a	150000	ug/Kg	*	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-41-7	Beryllium	0.523	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-43-9	Cadmium	571	ug/Kg	U	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-70-2	Calcium	2320000	ug/Kg		9130	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-47-3	Chromium	27100	ug/Kg	*N	171	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-48-4	Cobalt J,16a	4190	ug/Kg	*N	171	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-50-8	Copper	8090	ug/Kg		342	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-89-6	Iron	10700000	ug/Kg		9130	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-92-1	Lead	8710	ug/Kg	*	285	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-95-4	Magnesium	1650000	ug/Kg		9700	34200	34200	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-96-5	Manganese J,110a	414000	ug/Kg	*	228	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-97-6	Mercury	13.5	ug/kg	U	4.6	13.5	13.5	1	AV	JXL1	01/13/10 11:32	011310S1-5	940322
7440-02-0	Nickel	7.68	mg/kg	E	0.111	0.444	0.444	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-09-7	Potassium	1560000	ug/Kg		7310	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.555	1.11	1.11	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-22-4	Silver	436	ug/Kg	J	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-23-5	Sodium	104000	ug/Kg		7990	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-28-0	Thallium U,14b	0.133	mg/kg	J	0.0667	0.222	0.222	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-61-1	Uranium	2.79	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-62-2	Vanadium	23200	ug/Kg		114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-66-6	Zinc J,14a	21100	ug/Kg		377	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.505	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.519	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.511	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626008

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7845

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 92.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14000000	ug/Kg		7240	21300	21300	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-36-0	Antimony	1060	ug/Kg	U	351	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-38-2	Arsenic	2.09	mg/kg		0.216	1.08	1.08	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-39-3	Barium J,110a	225000	ug/Kg	*	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-41-7	Beryllium	0.914	mg/kg		0.0216	0.108	0.108	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-43-9	Cadmium	154	ug/Kg	J	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-70-2	Calcium	3160000	ug/Kg		8510	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-47-3	Chromium	13300	ug/Kg	*N	160	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-48-4	Cobalt J,16a	12400	ug/Kg	*N	160	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-50-8	Copper	8170	ug/Kg		319	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-89-6	Iron	15000000	ug/Kg		8510	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-92-1	Lead	15000	ug/Kg	*	266	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-95-4	Magnesium	2260000	ug/Kg		9040	31900	31900	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-96-5	Manganese J,110a	493000	ug/Kg	*	213	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-97-6	Mercury	30.5	ug/kg		4.37	12.8	12.8	1	AV	JXL1	01/13/10 11:34	011310S1-5	940322
7440-02-0	Nickel	7.34	mg/kg	E	0.108	0.432	0.432	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-09-7	Potassium	2020000	ug/Kg		6810	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7782-49-2	Selenium	1.08	mg/kg	UN	0.541	1.08	1.08	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-22-4	Silver	337	ug/Kg	J	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-23-5	Sodium	95900	ug/Kg		7450	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-28-0	Thallium U,14b	0.183	mg/kg	J	0.0649	0.216	0.216	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-61-1	Uranium	1.02	mg/kg		0.0143	0.0432	0.0432	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-62-2	Vanadium	29400	ug/Kg		106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-66-6	Zinc	27400	ug/Kg		351	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.508	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.505	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626009

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10 7842

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	13400000	ug/Kg		7730	22700	22700	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-38-2	Arsenic	2.03	mg/kg		0.228	1.14	1.14	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-39-3	Barium J,10a	226000	ug/Kg	*	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-41-7	Beryllium	0.878	mg/kg		0.0228	0.114	0.114	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-43-9	Cadmium	569	ug/Kg	U	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-70-2	Calcium	2130000	ug/Kg		9100	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-47-3	Chromium	24500	ug/Kg	*N	171	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-48-4	Cobalt J,16a	17300	ug/Kg	*N	171	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-50-8	Copper	7960	ug/Kg		341	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-89-6	Iron	13900000	ug/Kg		9100	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-92-1	Lead	18400	ug/Kg	*	284	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-95-4	Magnesium	1950000	ug/Kg		9670	34100	34100	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-96-5	Manganese J,10a	802000	ug/Kg	*	227	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-97-6	Mercury	9.61	ug/kg	J	4.26	12.5	12.5	1	AV	JXL1	01/13/10 11:36	011310S1-5	940322
7440-02-0	Nickel	8.71	mg/kg	E	0.114	0.456	0.456	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-09-7	Potassium	2030000	ug/Kg		7280	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7782-49-2	Selenium	1.14	mg/kg	UN	0.57	1.14	1.14	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-22-4	Silver	503	ug/Kg	J	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-23-5	Sodium U,14d	61200	ug/Kg		7960	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-28-0	Thallium U,14b	0.187	mg/kg	J	0.0684	0.228	0.228	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-61-1	Uranium	1.84	mg/kg		0.015	0.0456	0.0456	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-62-2	Vanadium	28500	ug/Kg		114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-66-6	Zinc	26100	ug/Kg		375	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.51	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.509	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS

-1-

INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626010

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7843

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14500000	ug/Kg		7390	21700	21700	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-36-0	Antimony	1090	ug/Kg	U	359	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-38-2	Arsenic	2.26	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-39-3	Barium J,110a	195000	ug/Kg	*	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-41-7	Beryllium	1.01	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-70-2	Calcium	2120000	ug/Kg		8700	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-47-3	Chromium	20000	ug/Kg	*N	163	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-48-4	Cobalt J,16a	5760	ug/Kg	*N	163	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-50-8	Copper	7060	ug/Kg		326	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-89-6	Iron	13300000	ug/Kg		8700	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-92-1	Lead	13100	ug/Kg	*	272	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-95-4	Magnesium	2110000	ug/Kg		9240	32600	32600	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-96-5	Manganese J,110a	384000	ug/Kg	*	217	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-97-6	Mercury	12.9	ug/kg	U	4.38	12.9	12.9	1	AV	JXL	01/13/10 11:42	011310S1-5	940322
7440-02-0	Nickel	8.67	mg/kg	E	0.111	0.445	0.445	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-09-7	Potassium	2050000	ug/Kg		6960	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.556	1.11	1.11	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-22-4	Silver	335	ug/Kg	J	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-23-5	Sodium U,14d	67100	ug/Kg		7610	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-28-0	Thallium U,14b	0.210	mg/kg	J	0.0667	0.222	0.222	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-61-1	Uranium	1.27	mg/kg		0.0147	0.0445	0.0445	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-62-2	Vanadium	26300	ug/Kg		109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-66-6	Zinc	26200	ug/Kg		359	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.513	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.502	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.52	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626011

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7847

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	15300000	ug/Kg		7420	21800	21800	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-36-0	Antimony	1090	ug/Kg	U	360	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-38-2	Arsenic	1.94	mg/kg		0.218	1.09	1.09	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-39-3	Barium J,110a	211000	ug/Kg	*	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-41-7	Beryllium	0.961	mg/kg		0.0218	0.109	0.109	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-43-9	Cadmium	545	ug/Kg	U	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-70-2	Calcium	2240000	ug/Kg		8730	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-47-3	Chromium	36800	ug/Kg	*N	164	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-48-4	Cobalt J,16a	7270	ug/Kg	*N	164	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-50-8	Copper	7290	ug/Kg		327	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-89-6	Iron	14800000	ug/Kg		8730	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	273	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-95-4	Magnesium	2290000	ug/Kg		9270	32700	32700	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-96-5	Manganese J,110a	466000	ug/Kg	*	218	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-97-6	Mercury	11.9	ug/kg	U	4.03	11.9	11.9	1	AV	JXL1	01/13/10 11:43	011310S1-5	940322
7440-02-0	Nickel	9.65	mg/kg	F	0.109	0.435	0.435	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-09-7	Potassium	2200000	ug/Kg		6980	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7782-49-2	Selenium	1.09	mg/kg	UN	0.544	1.09	1.09	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-22-4	Silver	476	ug/Kg	J	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-23-5	Sodium	92800	ug/Kg		7640	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-28-0	Thallium U,14b	0.206	mg/kg	J	0.0653	0.218	0.218	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-61-1	Uranium	1.31	mg/kg		0.0144	0.0435	0.0435	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-62-2	Vanadium	29100	ug/Kg		109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-66-6	Zinc	26400	ug/Kg		360	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.504	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.505	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

DJS
02/10/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243627001

BASIS: As Received

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7860

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: WATER


%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-39-3	Barium	1.21	ug/L	J	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-96-5	Manganese	1.19	ug/L	J	1	5	5	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	01/08/10 10:01	010810W1-6	937647
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-09-7	Potassium	119	ug/L	J	50	150	150	1	P	HSC	01/12/10 15:07	011210-1	937469
7782-49-2	Selenium U,14	7.09	ug/L	J	5	30	30	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-23-5	Sodium	146	ug/L	J	100	300	300	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	01/04/10 05:12	100103-4	937496
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/04/10 16:57	100104-5	937496
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/12/10 15:07	011210-1	937469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937469	937468	SW846 3005A	50	mL	50	mL	12/31/09	BXA1
937496	937495	SW846 3005A	50	mL	50	mL	12/31/09	BXA1
937647	937646	SW846 7470A Prep	20	mL	20	mL	01/07/10	AXG2

DJS
02/10/10

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


Section I.			
REQUEST NUMBER: <u>10-1101</u>	VALIDATION DATE: <u>02/10/10</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"/> LCMSMS PERCHLORATES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED PHENYLS
<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 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. It should be noted that the matrix QC analyses for the soil total CN batch were performed on a L/ sample from another RN and that the raw data for the parent sample was not included in the data package. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: 1 Date: 02/11/10


DATA VALIDATION COVER SHEET	
5120-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST 1944
VALIDATOR'S SIGNATURE: <u>David Schwartz</u> DATE: <u>02/10/10</u>	
Form 5120-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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

Yes No N/A (Check One)			Assign Qual Criteria	er Listed Below If on = 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, I'	N/A

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

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

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2	Records Use Only
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>General Chemistry Analytical Data Validation Checklist</div> <div>  </div> </div>	

Yes No N/A (Check One)			Assign Qualifier Listed Below If Criteria = 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. 0211, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Received January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7840
Sample ID: 243626002
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 16.2%

Project: LANL 1004
Client ID: LANL 110

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	72.4	266	ug/kg	U	AXS5	5/10	1256	937569	1
----------------	---	----	------	-----	-------	---	------	------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : Los Alamos National Laboratory

Address : PO Box 1663
TA-03, SM271, Drop Pt. 0201, Rm111
Los Alamos, New Mexico 87545

Contact: Ms. Joylene Valdez

Project: LANL ER Project

Report ID January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7839
Sample ID: 243626003
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 11.7%

Project: LANL 04
Client ID: LANL

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	Site	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	------	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.1	272	ug/kg	1	AXC2	5/10	1301	937569	1
----------------	---	----	------	-----	-------	---	------	------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Pr	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	9.	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7838
Sample ID: 243626004
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 21.8%

Project: LANL 04
Client ID: LANL 0

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.9	275	ug/kg	1	AXC2	5/10	1302	937569	1
----------------	---	----	------	-----	-------	---	------	------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Pr	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	9	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

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: January 9, 2010

Client IDG: 10-1101

Client Sample ID: RE12-10-7858
Sample ID: 243626005
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 12.4%

Project: LANL 04
Client ID: LANL

Parameter	Qualifier	Result	DL	RL	Units	DP	Anal	Site	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	------	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	71.8	264	ug/kg	1	AXC2	5/10	1303	937569	1
----------------	---	----	------	-----	-------	---	------	------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	93	

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

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: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7846
Sample ID: 243626006
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 12.1%

Project: LANL 004
Client ID: LANL 004

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	67.8	249	ug/kg	1	JXC2	5/10	1304	937569	1
----------------	---	----	------	-----	-------	---	------	------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	9.	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7844
 Sample ID: 243626007
 Matrix: R
 Collect Date: 22-DEC-09 12:00
 Receive Date: 29-DEC-09
 Collector: Client
 Moisture: 13.3%

Project: LANL 004
 Client ID: LANL 0

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	78.4	288	ug/kg	1	XC2	05/10	1304	937569	1
----------------	---	----	------	-----	-------	---	-----	-------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Pr	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	93	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7845
Sample ID: 243626008
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 7.5%

Project: ANL 004
Client ID: ANL 0

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.5	270	ug/kg	1	XC2	05/10	1305	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Pr	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	93	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW9012A	

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. J.ylene Valdez
Project: LANL ER Project

RECEIVED January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7842
Sample ID: 243626009
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 13.8%

Project: ANI 004
Client ID: ANI 0

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	J	102	77.3	284	ug/kg	1	NC2	05/10	1306	937569	1
----------------	---	-----	------	-----	-------	---	-----	-------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	105	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-0 SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. J. Jolene Valdez
Project: LANL ER Project

Client SDG: 10-1101

January 9, 2010

Client Sample ID: RE12-10-7841
Sample ID: 243626001
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 15.5%

Project: ANL 004
Client ID: ANL 0

Parameter	Qualifier	Result	DL	RL	Units	Def	Lab	Date	Time	Batch	Method
-----------	-----------	--------	----	----	-------	-----	-----	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.5	274	ug/kg	1	01	05/10	1256	937569	1
----------------	---	----	------	-----	-------	---	----	-------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Batch
SW846 9010B Prep	SW 846 9010B Prep	AXS5	01/05/10	105	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW 9012A	

Certificate of Analysis

Company : Los Alamos National Laboratory
 Address : PO Box 1663
 TA-6 SM271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545
 Contact: Ms. J. Delene Valdez
 Project: LAN ER Project

Client SDG: 10-1101

January 9, 2010

Client Sample ID: RE12-10-7843
 Sample ID: 243626010
 Matrix: R
 Collection Date: 22-DEC-09 12:00
 Receipt Date: 29-DEC-09
 Collection: Client
 Moisture: 10.4%

Project: 004
 Client ID: 9

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"
 Cyanide, Total U ND 75.9 279 ug/kg

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	10:58	8

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 16663
TA-03 EM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Julie Valdez
Project: LANL Project

Client SDG: 10-1101

January 9, 2010

Client Sample ID: RE12-10-7847
Sample ID: 243626011
Matrix: R
Collection Date: 22-DEC-09 12:00
Received Date: 29-DEC-09
Collector: Client
Moisture: 9.05%

Project: 1004
Client ID: 1004

Parameter	Q	Filter	Result	DL	RL	Units	DF	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total Federal Agency Weight Corrected"											
Cyanide, Total			ND	73.3	269	ug/kg		5/10	1308	937569	1
The following Prep Methods were performed											
Method	Description			Analyst		Date	Time			Batch	
SW846 9010B Prep	SW846 9010B Prep			AXS5		01/05/10	10:00			8	
The following Analytical Methods were performed											
Method	Description					Analyst	Comments				
1	SW9012A										

Certificate of Analysis

Company : Los Alamos National Laboratory
 Address : PO Box 663
 TA-03, M271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545
 Contact: Ms. Joyne Valdez
 Project: LANL Project

Client SDG: 10-1101-1

January 6, 2010

Client Sample ID: RE12-10-7860
 Sample ID: 243627001
 Matrix: W
 Collection Date: 22-DEC-09 12:00
 Receipt Date: 29-DEC-09
 Collection: Client

Project: 004
 Client ID: 0

Parameter	Qualifier	Result	DL	RL	Units	DF	Date	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "As Received"	J	ND	1.66	5.00	ug/L	1	1/10	1048	937245	1
The following Prep Methods were performed										
Method	Description			Analyst	Date	Time	Batch			
SW846 9010B Prep	SW846 9010B Prep			AXS5	12/31/09	150				
The following Analytical Methods were performed										
Method	Description			Analyst Comments						
1	SW846 9012A									

Thursday, December 24, 2009

LAB CHAIN OF CUSTODY DO

T NUMBER: 10-1101C

T NUMBER: 10-1101

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Da

TURNAROUND/REPO

1/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'T

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

24367

2436271

SAMPLE ID	CTNR	CTNR DESC	ORDER	MATRIX
RE12-10-7841	1	POLY	Met+U+CLO4+CN	R
RE12-10-7840	1	POLY	Met+U+CLO4+CN	R
RE12-10-7839	1	POLY	Met+U+CLO4+CN	R
RE12-10-7838	1	POLY	Met+U+CLO4+CN	R
RE12-10-7858	1	POLY	Met+U+CLO4+CN	R
RE12-10-7846	1	POLY	Met+U+CLO4+CN	R
RE12-10-7844	1	POLY	Met+U+CLO4+CN	R
RE12-10-7845	1	POLY	Met+U+CLO4+CN	R
RE12-10-7842	1	POLY	Met+U+CLO4+CN	R
RE12-10-7843	1	POLY	Met+U+CLO4+CN	R
RE12-10-7847	1	POLY	Met+U+CLO4+CN	R
RE12-10-7860	1	POLY	METALS+U-GEL	W
RE12-10-7860	1	POLY	SW-846:6850	W
RE12-10-7860	1	POLY	TCN	oxide W

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature]
Printed Name

12/28/09 3:00

Greg Tyler
Printed Name Signature

12/29/09 0840

Printed Name Signature Printed Name Signature

Printed Name Signature Printed Name Signature

Received for: SAL By: Date Time Remarks:

Printed Name Signature

Thursday, December 24, 2009

LOS ALAMOS

ENVIRONMENTAL LABORATORY

ATTN: Valeria D. ...

Three Samples

2040 Savage Rd
Charleston, SC 29407

LANL Request Number: 10-1101

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/28/2009

TURNAROUND/REPORT DUE: 1/27/2010

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
1	RE12-10-7841	1	RE12-10-7841	R	12/22/2009	
1	RE12-10-7842	1	RE12-10-7842	R	12/22/2009	
1	RE12-10-7843	1	RE12-10-7843	R	12/22/2009	
1	RE12-10-7844	1	RE12-10-7844	R	12/22/2009	
1	RE12-10-7845	1	RE12-10-7845	R	12/22/2009	
1	RE12-10-7846	1	RE12-10-7846	R	12/22/2009	

Thursday, December 24, 2009

REQUEST NUMBER: 10-1101

PROPERTY / SITE CODE	CONTAINER	SAMPLE ID	SAMPLE	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846-9020	1	RE12-10-7847	R	12/22/2009	
SW-846-6850	1	RE12-10-7838	R	12/22/2009	
	1	RE12-10-7839	R	12/22/2009	
	1	RE12-10-7840	R	12/22/2009	
	1	RE12-10-7844	R	12/22/2009	
	1	RE12-10-7846	R	12/22/2009	
	1	RE12-10-7843	R	12/22/2009	
	1	RE12-10-7844	R	12/22/2009	
	1	RE12-10-7845	R	12/22/2009	
	1	RE12-10-7846	R	12/22/2009	
	1	RE12-10-7847	R	12/22/2009	
	1	RE12-10-7858	R	12/22/2009	
	1	RE12-10-7860	W	12/22/2009	
SW-846-7470A	1	RE12-10-7860	W	12/22/2009	
SW-846-7471A	1	RE12-10-7838	R	12/22/2009	
	1	RE12-10-7839	R	12/22/2009	
	1	RE12-10-7840	R	12/22/2009	
	1	RE12-10-7843	R	12/22/2009	
	1	RE12-10-7844	R	12/22/2009	
	1	RE12-10-7845	R	12/22/2009	
	1	RE12-10-7846	R	12/22/2009	
	1	RE12-10-7847	R	12/22/2009	
	1	RE12-10-7858	R	12/22/2009	
SW-846-9012A	1	RE12-10-7838	R	12/22/2009	

PRIORITY	REF ID	DATE	TIME	LOCATION	STATUS	DATE SAMPLED	SPECIAL
1	RE12-10-7842	12/22/2009	12:00	RE12-10-7842	R	12/22/2009	
1	RE12-10-7843	12/22/2009	12:00	RE12-10-7843	R	12/22/2009	
1	RE12-10-7844	12/22/2009	12:00	RE12-10-7844	R	12/22/2009	
1	RE12-10-7845	12/22/2009	12:00	RE12-10-7845	R	12/22/2009	
1	RE12-10-7846	12/22/2009	12:00	RE12-10-7846	R	12/22/2009	
1	RE12-10-7847	12/22/2009	12:00	RE12-10-7847	R	12/22/2009	
1	RE12-10-7858	12/22/2009	12:00	RE12-10-7858	R	12/22/2009	
1	RE12-10-7880	12/22/2009	12:00	RE12-10-7880	W	12/22/2009	

Final Page of REQUEST NUMBER 10-11101



January 06, 2010

www.gel.com

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

Re: LANL ER Project
Work Orders: 243626 243627
SDG: 10-1101

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on December 29, 2009, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1101
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 243626 and 243627
SDG: 10-1101

Table of Contents

Case Narrative.....	1
Chain of Custody and Supporting Documentation	5
Data Review Qualifier Flag Definition Sheet	14
LC/MS/MS Perchlorate Analysis.....	16
Sample Data Summary	21
Quality Control Summary.....	33
Sample Data	61
Standards Data.....	84
Quality Control	106
Miscellaneous Data	115
LC/MS/MS Perchlorate Analysis.....	121
Sample Data Summary	126
Quality Control Summary.....	128
Sample Data	149
Standards Data.....	152
Quality Control Data	164
Miscellaneous Data	169
Metals Analysis	177
Case Narrative.....	178
Sample Data Summary	184
Quality Control Summary.....	196
Standards	258
Raw Data.....	270
Miscellaneous	775
Metals Analysis	821
Case Narrative.....	822
Sample Data Summary	828
Quality Control Summary.....	830
Standards	869
Raw Data.....	881
Miscellaneous	1101
General Chemistry Analysis	1139
Case Narrative.....	1140
Sample Data Summary	1145

Quality Control Summary.....	1158
Instrument QC Data Summary	1161
Cyanide, Total	1163
Miscellaneous	1178
General Chemistry Analysis	1180
Case Narrative.....	1181
Sample Data Summary	1186
Quality Control Summary.....	1189
Instrument QC Data Summary	1192
Cyanide, Total	1194

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 243626 and 243627
SDG # : 10-1101**

January 06, 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 December 29, 2009 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>
243626001	RE12-10-7841
243626002	RE12-10-7840
243626003	RE12-10-7839
243626004	RE12-10-7838
243626005	RE12-10-7858
243626006	RE12-10-7846
243626007	RE12-10-7844
243626008	RE12-10-7845
243626009	RE12-10-7842
243626010	RE12-10-7843
243626011	RE12-10-7847
243627001	RE12-10-7860

Case Narrative

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

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

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

A handwritten signature in black ink, appearing to read "Valerie Davis" with a stylized flourish at the end.

Valerie Davis

Project Manager

List of current GEL Certifications as of 06 January 2010

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

Chain of Custody and Supporting Documentation

Thursday, December 24, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1101C

**LOS ALAMOS
NATIONAL LABORATORY**

REQUEST NUMBER: 10-1101

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

243626%, 243627%.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7841	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7840	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7839	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7838	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7858	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7846	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7844	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7845	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7842	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7843	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7847	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7860	1	POLY	METALS+U-GEL	Nitric Acid	W
RE12-10-7860	1	POLY	SW-846:6850	Ice	W
RE12-10-7860	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

Date 12/28/09 Time 3:00

Received By:

Date 12/29/09 Time 0840

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

Thursday, December 24, 2009

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: 10-1101

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/28/2009

TURNAROUND/REPORT DUE: 1/27/2010

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	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	

Thursday, December 24, 2009

Page 2 of 3

REQUEST NUMBER: 10-1101

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8020	1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	
	SW-846:6850	1	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	
	SW-846:7470A	1	RE12-10-7860	W	12/22/2009	
	SW-846:7471A	1	RE12-10-7838	R	12/22/2009	
		1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
	SW-846:9012A	1	RE12-10-7838	R	12/22/2009	

Thursday, December 24, 2009

Page 3 of 3

REQUEST NUMBER: 10-1101

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE12-10-7839	R	12/22/2009	
		1	RE12-10-7840	R	12/22/2009	
		1	RE12-10-7841	R	12/22/2009	
		1	RE12-10-7842	R	12/22/2009	
		1	RE12-10-7843	R	12/22/2009	
		1	RE12-10-7844	R	12/22/2009	
		1	RE12-10-7845	R	12/22/2009	
		1	RE12-10-7846	R	12/22/2009	
		1	RE12-10-7847	R	12/22/2009	
		1	RE12-10-7858	R	12/22/2009	
		1	RE12-10-7860	W	12/22/2009	

Final Page of REQUEST NUMBER 10-1101



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCO/Work Order: 10-1101	
Received By: Greg Tyler		Date Received: 12/29/09	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

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

Comments:
Fed Ex Tracking Numbers:
 7209 7849 3994 2C 7209 7849 3961 12C
 7209 7849 3950 2C 7209 7849 3983 12C
 7209 7849 3972 2C
 7209 7849 3906 3C
 7209 7849 3940 5C
 7209 7849 3891 5C
 7209 7849 3939 6C
 7209 7849 3917 9C

PM (or PMA) review: Initials

P. L. K. O.

Date 12-30-09

29407
SC-US
CHS

BILL SENDERSHIP DATE: 28DEC09
ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2434**BILL SENDER**

TUE - 29DEC A1
PRIORITY OVERNIGHT

TUE - 29DEC A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

29407
SC-US
CHS

SNIP DATE: 28DEC09
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2434

SNIP DATE: 28DEC09
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2434

BILL SENDER**BILL SENDER**

TUE - 29DEC A1
PRIORITY OVERNIGHT

TUE - 29DEC A1
PRIORITY OVERNIGHT

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

SHIP DATE: 28DEC09
ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2434

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

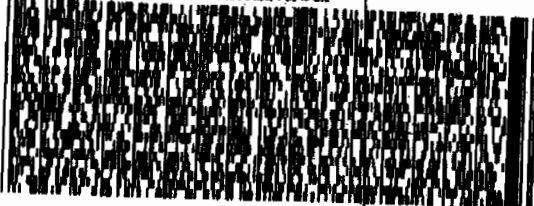
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843)556-8171

REF: 68010AMR3A056AB800

0014176/CAFE2434



FedEx
Express



00128080212224

3 of 3
7209 7849 3940

7209 7849 3928 0201

XX CHSA

TUE - 29DEC A1
PRIORITY OVERNIGHT

29407
SC-US
CHS



LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

CAD: 0014176/CAFE2434

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843)556-8171

REF: 68010AMR3A056AB800

0014176/CAFE2434



FedEx
Express



00128080212224

2 of 3
7209 7849 3939

7209 7849 3928 0201

XX CHSA

TUE - 29DEC A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

0014176/CAFE2434

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 57.0 LB MAN
CAD: 0014176/CAFE2434

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843)556-8171

REF: 68010AMR2A054196D0

0014176/CAFE2434



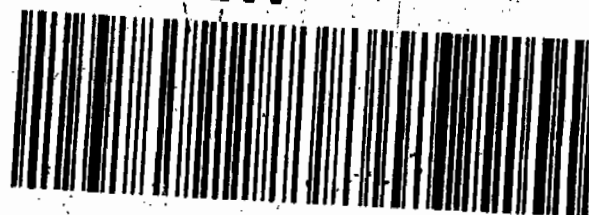
FedEx
Express



00128080212224

1 of 3
TRKH 7209 7849 3891
0201
MM MASTER MM

XX CHSA



TUE - 29DEC A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28DEC09
ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2434

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843)556-8171

REF: 68010AMR2A054196D0

0014176/CAFE2434



FedEx
Express



00128080212224

3 of 3
MPSH 7209 7849 3917
0263

Matr-M 7209 7849 3891 0201

XX CHSA

TUE - 29DEC A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

0014176/CAFE2434

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 10-1101**

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: 937882

Prep Batch Number: 937881

Sample Analysis

Sample ID	Client ID
243626001	RE12-10-7841
243626002	RE12-10-7840
243626003	RE12-10-7839
243626004	RE12-10-7838
243626005	RE12-10-7858
243626006	RE12-10-7846
243626007	RE12-10-7844
243626008	RE12-10-7845
243626009	RE12-10-7842
243626010	RE12-10-7843
243626011	RE12-10-7847
1202006983	Interference Check Sample (ICS)
1202006979	Method Blank (MB)
1202006980	Laboratory Control Sample (LCS)
1202006981	243626001(RE12-10-7841) Matrix Spike (MS)
1202006982	243626001(RE12-10-7841) Matrix Spike Duplicate (MSD)

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

10-1101-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

Sample 243626001 (RE12-10-7841) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

10-1101-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 reports (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.

10-1101-PERLCMS

Page 3 of 4

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: 01/15/10

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7841

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626001

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:09	per0106051a
14797-73-0	Perchlorate-101	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate-O(18)			5.69	ug/kg		1	06-JAN-10 21:09	per0106051a

[^] 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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7840

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626002

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.656	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate Isotope Ratio			3.05			1	06-JAN-10 21:31	per0106054a
14797-73-0	Perchlorate-101	.597	2.39	0.658	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate-O(18)			5.81	ug/kg		1	06-JAN-10 21:31	per0106054a

[^] 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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7839

Date Received: 29-DEC-02

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626003

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:38	per0106055a
14797-73-0	Perchlorate-101	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 21:38	per0106055a

[^] 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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7838

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626004

Date Filtered: 06-JAN-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	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:07	per0106059a
14797-73-0	Perchlorate-101	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate-O(18)			5.70	ug/kg		1	06-JAN-10 22:07	per0106059a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7858

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626005

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:14	per0106060a
14797-73-0	Perchlorate-101	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 22:14	per0106060a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X ¹
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 237881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7846

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626006

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:21	per0106061a
14797-73-0	Perchlorate-101	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate-O(18)			5.19	ug/kg		1	06-JAN-10 22:21	per0106061a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7844

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626007

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte ^a	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	06-JAN-10 22:28	per0106062a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:28	per0106062a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	06-JAN-10 22:28	per0106062a
	Perchlorate-O(18)			5.24	ug/kg		1	06-JAN-10 22:28	per0106062a

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

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7845

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626008

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 92.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:35	per0106063a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate-O(18)			4.96	ug/kg		1	06-JAN-10 22:35	per0106063a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7842

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626009

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:42	per0106064a
14797-73-0	Perchlorate-101	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate-O(18)			5.53	ug/kg		1	06-JAN-10 22:42	per0106064a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7843

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626010

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:49	per0106065a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate-O(18)			5.04	ug/kg		1	06-JAN-10 22:49	per0106065a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X ¹ %Solids
Aliquot

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7847

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626011

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 20.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:56	per0106066a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate-O(18)			4.95	ug/kg		1	06-JAN-10 22:56	per0106066a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-1101

Extract Batch Code: 937881 Date Filtered: 06-JAN-10

Matrix: SOIL Sample ID: 1202006980

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.86	ug/kg	93.2		70 - 130
Perchlorate Isotope Ratio		2.94				-
Perchlorate-101	2.00	1.94	ug/kg	96.9		70 - 130
Perchlorate-O(18)		4.82	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): 10-1101

Extract Batch Code: 937881 Date Filtered: 06-JAN-10

Matrix: SOIL Sample ID: 1202006983

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2	ug/kg	100		70 - 130
Perchlorate Isotope Ratio		3.12				
Perchlorate-101	2.00	1.96	ug/kg	98		70 - 130
Perchlorate-O(18)		4.88	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\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106038a

Date: 06-Jan-2010

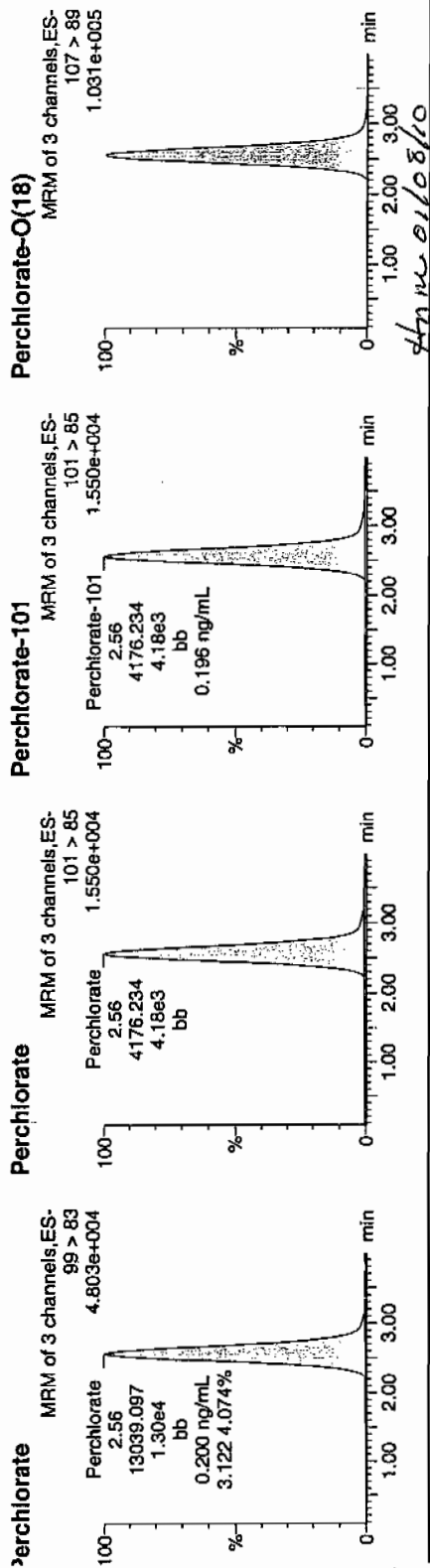
Time: 19:37:37

D: 1202006983

/al: 2:1,C

LAU 937 882 | 5030 | 11

0.97.10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202006983	Perchlorate	99 > 83	2.56	13039.097	13039.097	bb			0.2000	100.01	0.01	1401.3...	3.12
1202006983	Perchlorate-101	101 > 85	2.56	4176.234	4176.234	bb			0.1961	98.04	-1.96	1814.2...	
1202006983	Perchlorate-O(18)	107 > 89	2.55	28199.598	28199.598	bb			0.4877	97.55	-2.45	14652...	

Form 6

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1101

Extract Batch Code: 937881

Date Extracted: 06-JAN-10

GEL MS/PS ID: 1202006981

Client ID: RE12-10-7841

GEL MSD/PSD ID: 1202006982

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.37	0.308	ug/kg	2.48	91.8		2.52	93.5		1.56		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.05			3.04			0			-
Perchlorate-101	2.37	0.300	ug/kg	2.49	92.4		2.54	94.7		2.18		30	75 - 125
Perchlorate-O(18)	0	5.69	ug/kg	5.28			5.62			6.24			-

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

Comments:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-1101

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	06-JAN-10	per0106001a	IPB001
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106001a	IPB001
Perchlorate	0.00	0	NA	06-JAN-10	per0106002a	IPB001
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106002a	IPB001

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

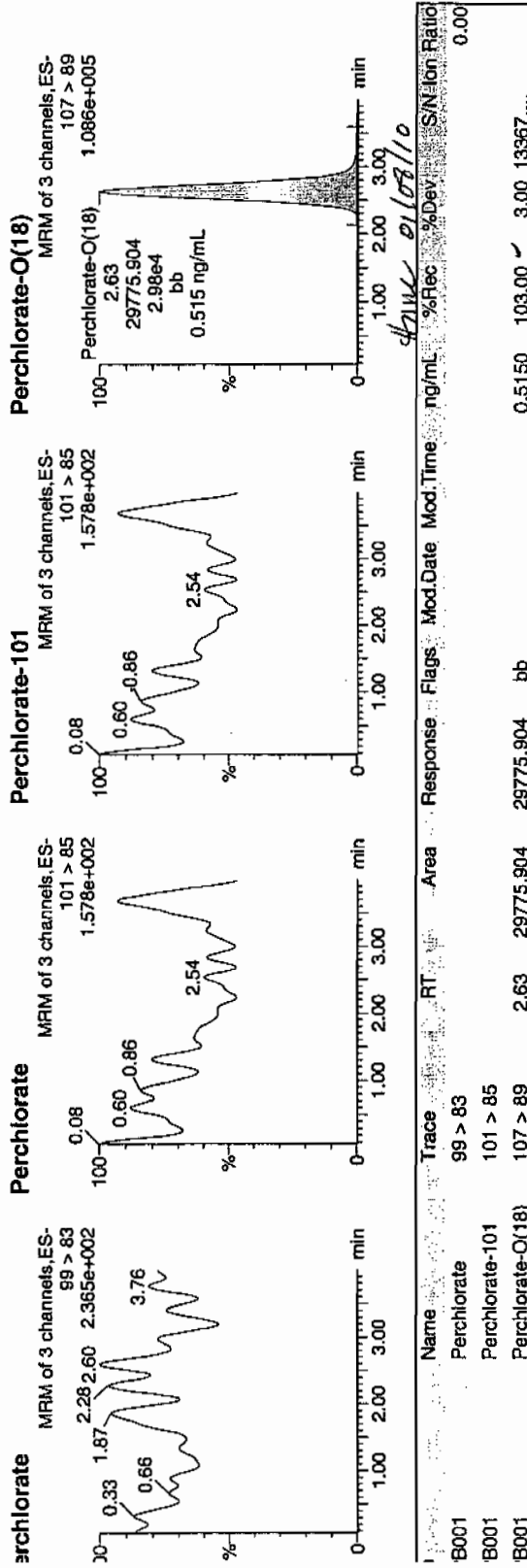
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

First Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 Created: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per010610a.mdb 06 Jan 2010 15:03:34
 Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per010610a.cdb 07 Jan 2010 08:49:31

Sample Name: per0106001a
 Date: 06-Jan-2010
 Time: 15:16:51
 File: IPB001
 Label: 1:1,A

01-07-10



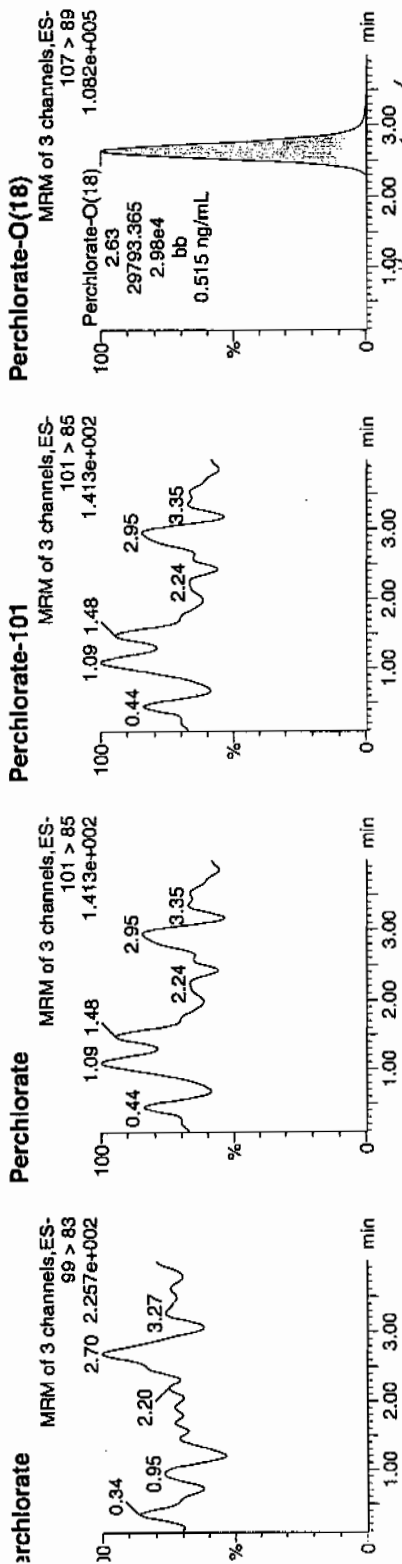
Identify Sample Report MassLynx 4.0 SP4
 GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

List Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 Intended: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Time: per0106002a
 Date: 06-Jan-2010
 Time: 15:23:53
 File: IPB001
 Ali: 1:1,A

CWJ
 01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B001	Perchlorate	99 > 83										0.00
B001	Perchlorate-101	101 > 85										
B001	Perchlorate-O(18)	107 > 89	2.63	29793.365	bb			0.5153	103.06	3.06	20286...	

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	06-JAN-10	per0106008a	IPB002
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106008a	IPB002
Perchlorate	0.00	0	NA	06-JAN-10	per0106010a	IPB003
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106010a	IPB003
Perchlorate	0.00	0	NA	06-JAN-10	per0106021a	IPB004
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106021a	IPB004
Perchlorate	0.00	0	NA	06-JAN-10	per0106026a	IPB005
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106026a	IPB005
Perchlorate	0.00	0	NA	06-JAN-10	per0106034a	IPB006
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106034a	IPB006
Perchlorate	0.00	0	NA	06-JAN-10	per0106046a	IPB007
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106046a	IPB007
Perchlorate	0.00	0	NA	06-JAN-10	per0106057a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

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	06-JAN-10	per0106057a	IPB008
Perchlorate	0.00	0	NA	06-JAN-10	per0106068a	IPB009
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106068a	IPB009

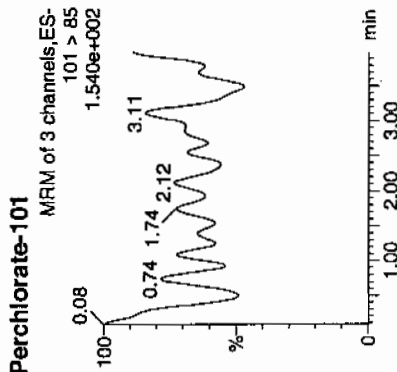
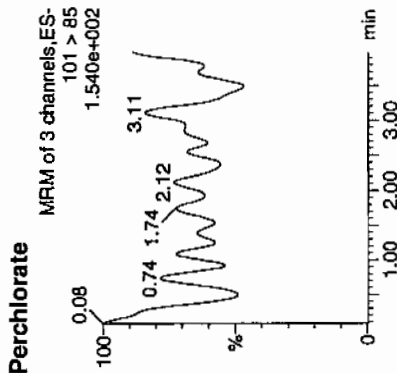
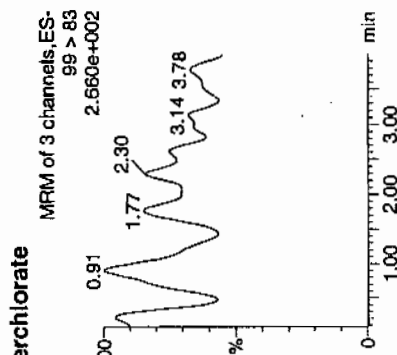
Identify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

File Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
File Created: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106008a
Date: 06-Jan-2010
Time: 16:06:01
File: IPB002
Label: 1:1,A

01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.61	28599.754	28599.754	bb			0.4947	98.93	-1.07	2817.8...	0.00

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Sample Name: per0106010a
Date: 06-Jan-2010
Time: 16:20:17
Sample: IPB003
Lot: 1:1,A

Sample Name: per0106010a

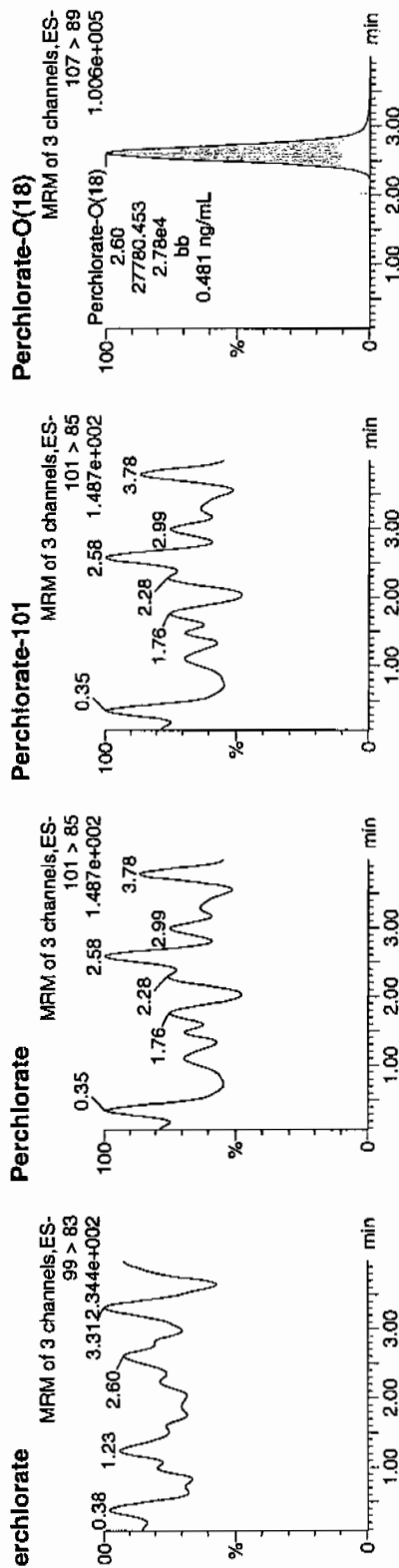
Date: 06-Jan-2010

Time: 16:20:17

Sample: IPB003

Lot: 1:1,A

01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.60	27780.453	27780.453	bb			0.4805	96.10	-3.90	9314.4...	

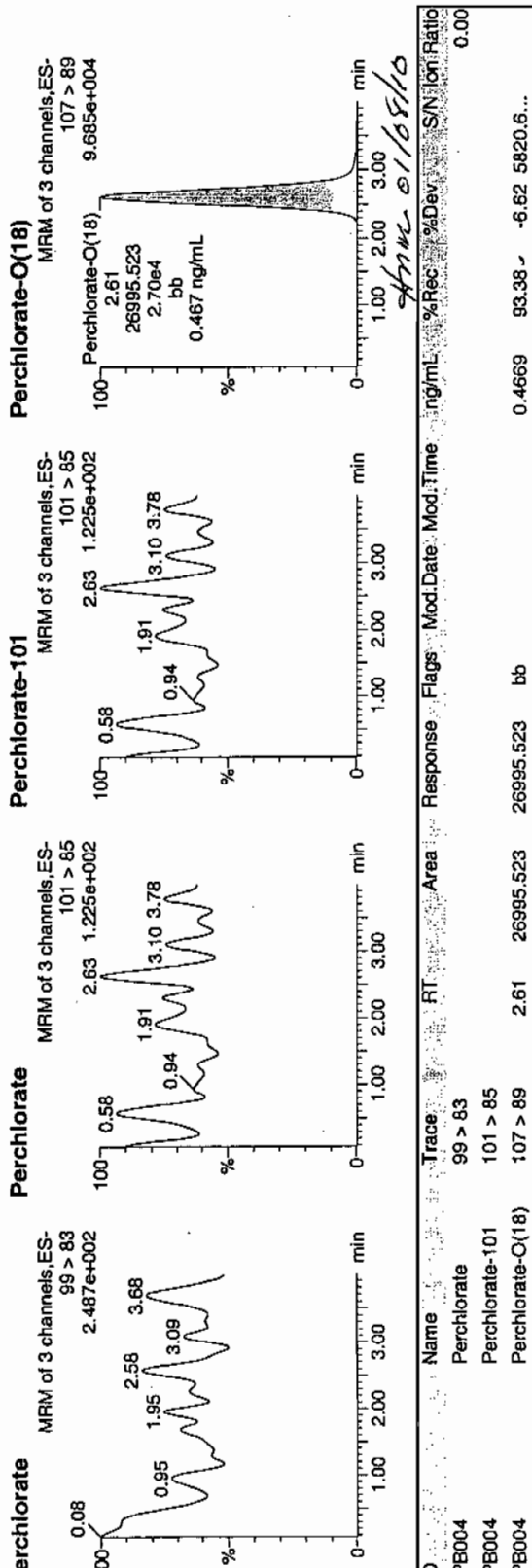
Quantify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

First Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 First: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106021a
 Date: 06-Jan-2010
 Time: 17:37:43
 File: IPB004
 Label: 1:1,A

01-31-10



Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Acquired: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106026a

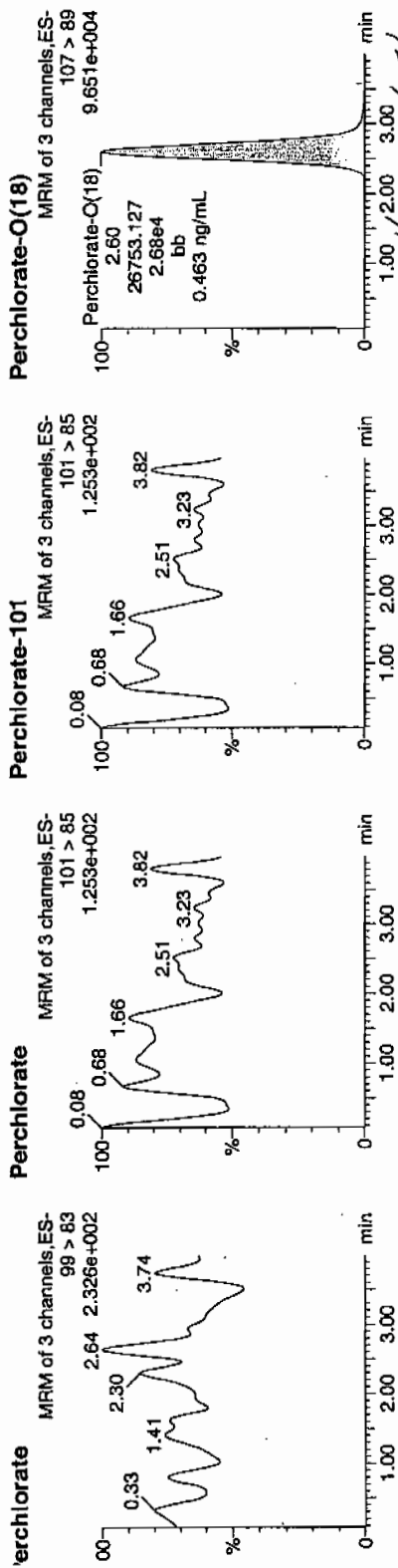
Acquired: 06-Jan-2010

Time: 18:12:56

File: IPB005

File: 1:1.A

Handwritten:
 01-07-10
 (Signature)



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.60	26753.127	26753.127	bb			0.4627	92.55	-7.45	5051.8...	0.00

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106034a

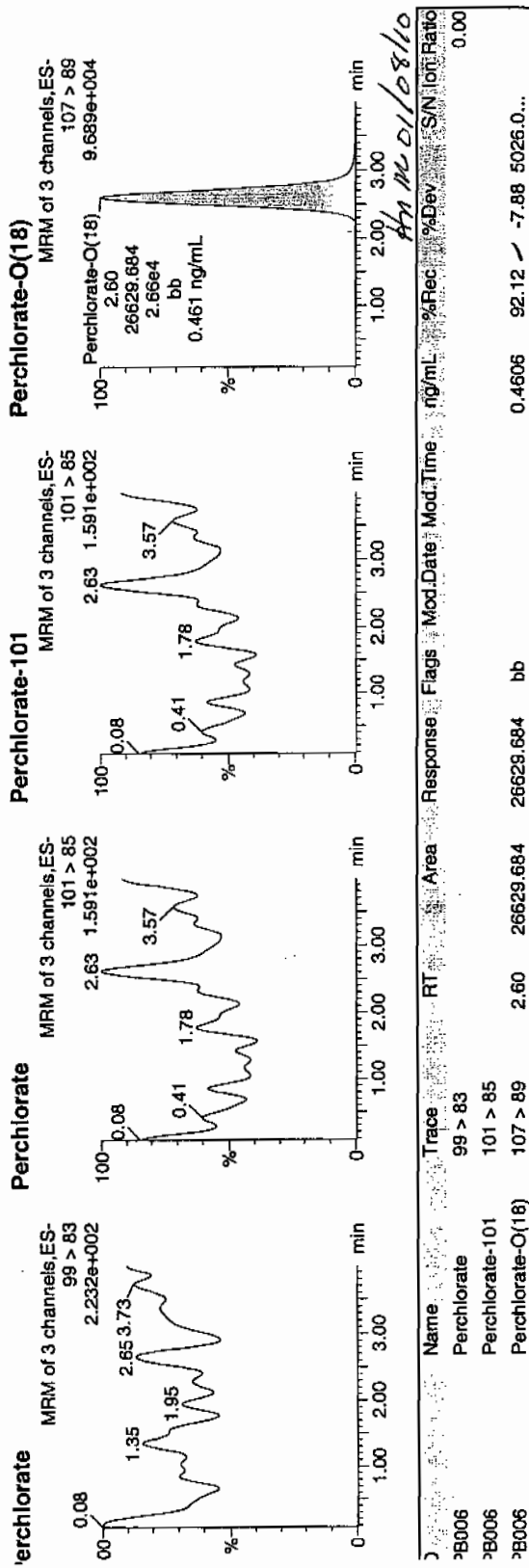
Sample Date: 06-Jan-2010

Sample Time: 19:09:16

Sample ID: IPB006

Sample Label: 1:1,A

01-07-10



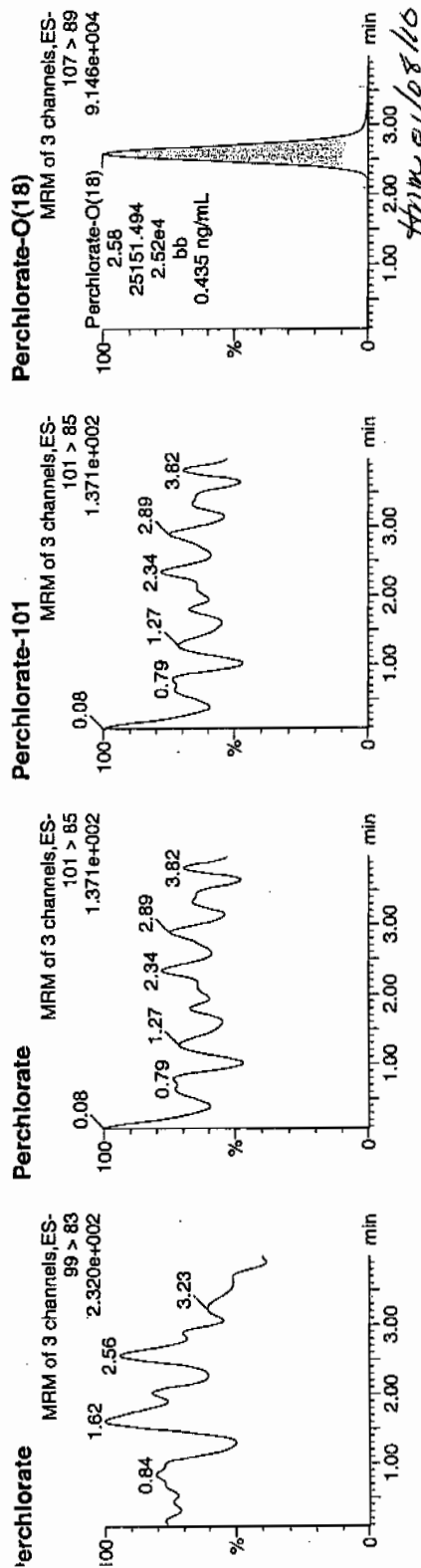
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106046a
Date: 06-Jan-2010
Time: 20:34:06
ID: IPB007
Lot: 1:1,A

CWJ
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.58	25151.494	25151.494	bb			0.4350	87.01	-12.99	6187.5...	

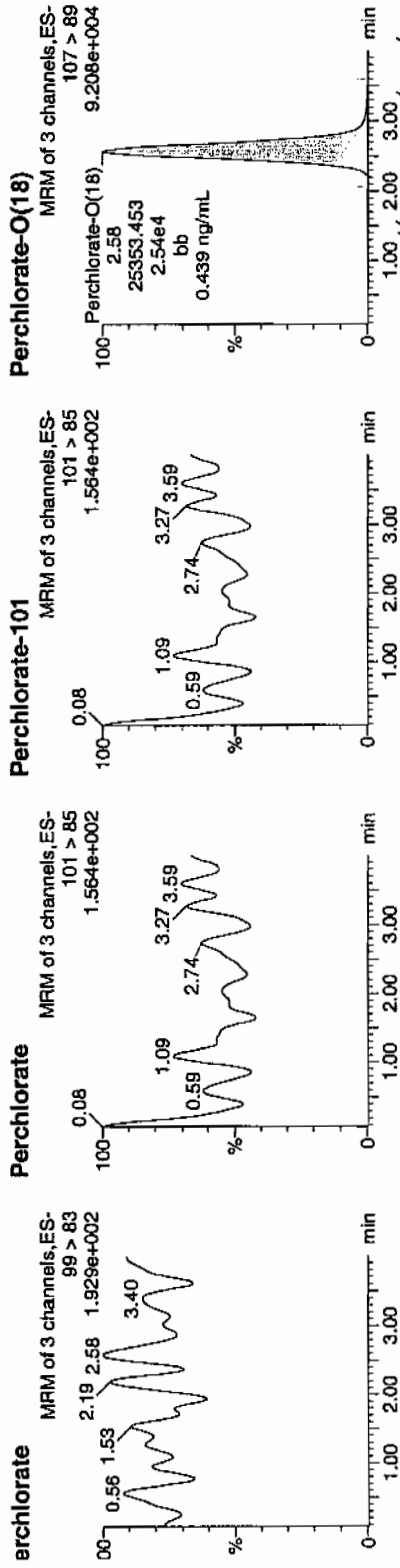
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106057a
Date: 06-Jan-2010
Time: 21:53:14
Injection: IPB008
Injection Volume: 1:1,A

01-03-10



Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.58	25353.453	25353.453	bb			0.4385	87.70	-12.30	2838.7...	

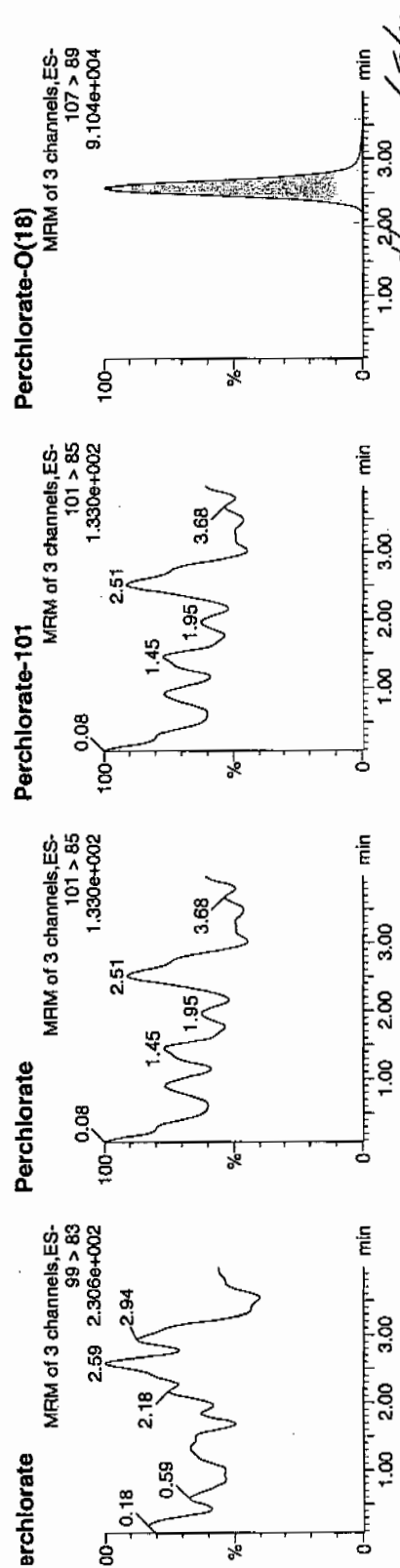
Quantify Sample Report MassLynx 4.0 SP4
 the GEL Group, LLC Analyst: Charlers W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

ast Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 rinted: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

ame: per0106068a
 ate: 06-Jan-2010
 line: 23:11:22
): IPB009
 fal: 1:1,A

Cur
 01.07.10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
B009	Perchlorate	99 > 83										0.00
B009	Perchlorate-101	101 > 85										
B009	Perchlorate-O(18)	107 > 89	2.56	25144.523	bb	25144.523		0.4349	86.98	-13.02	3955.3...	

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

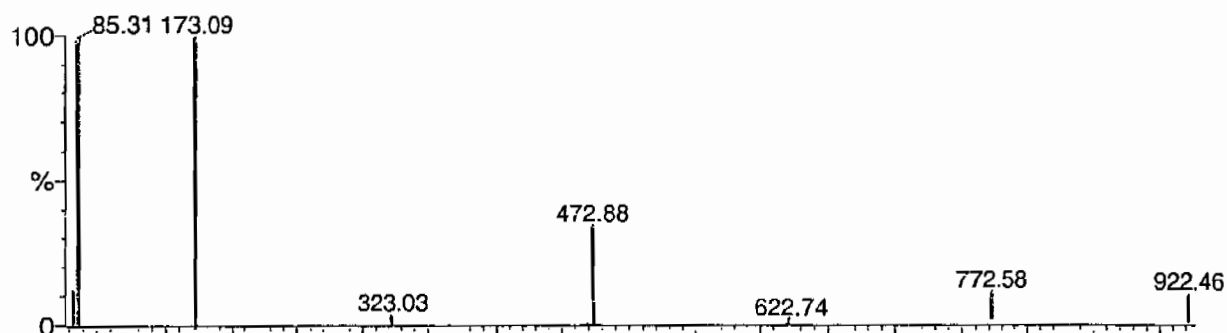
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

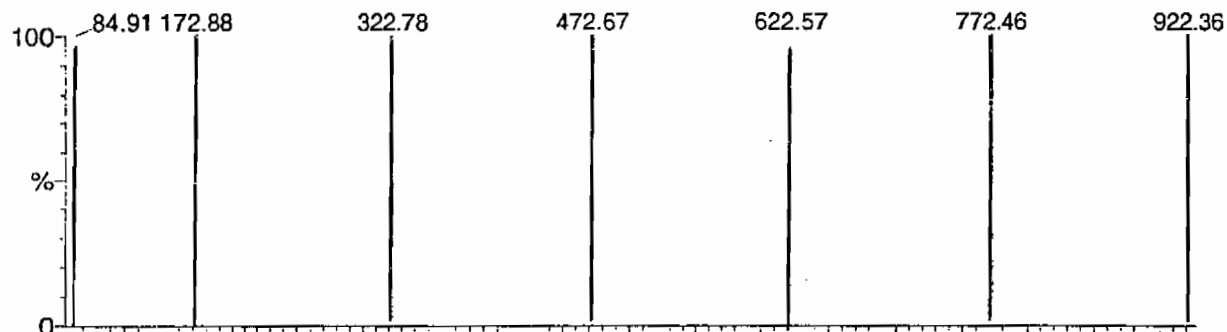
POINTS HIGHLY SENSITIVE BY CALIB 01-08-08

Data file: STATMS1 - Uncalibrated

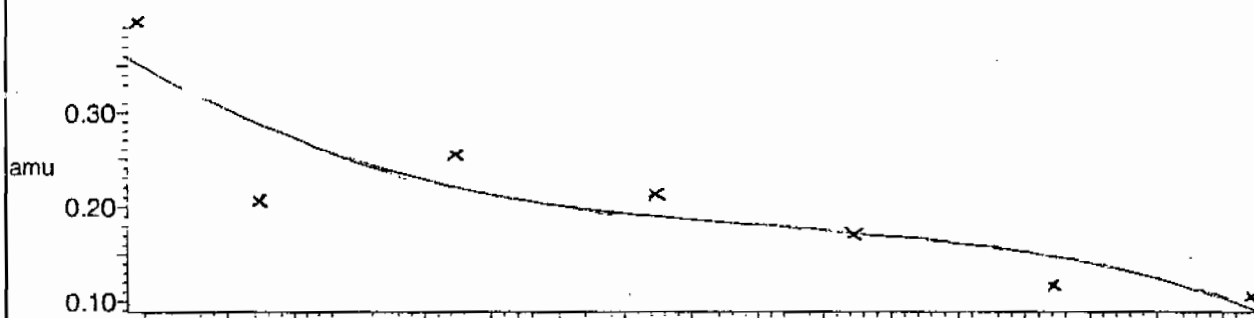
7 matches of 7 tested references



Reference file: Nairb

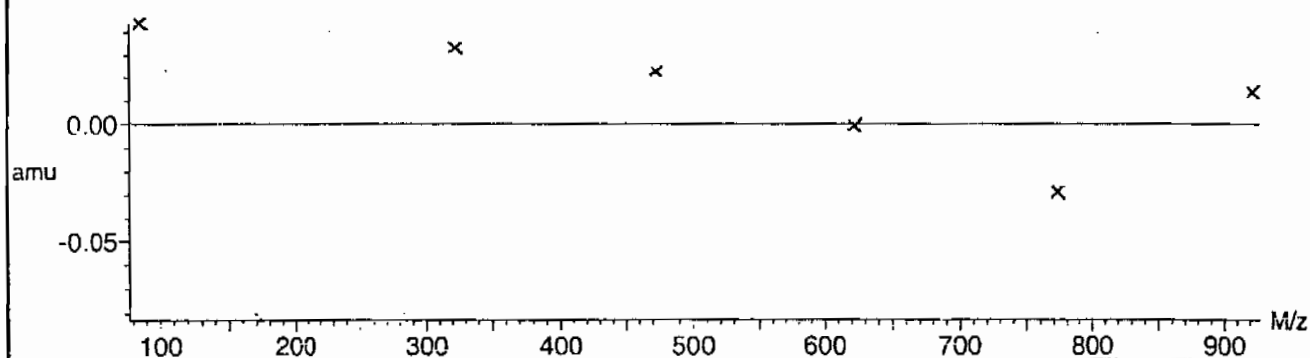


Mass difference (Raw - Ref mass)



Residuals

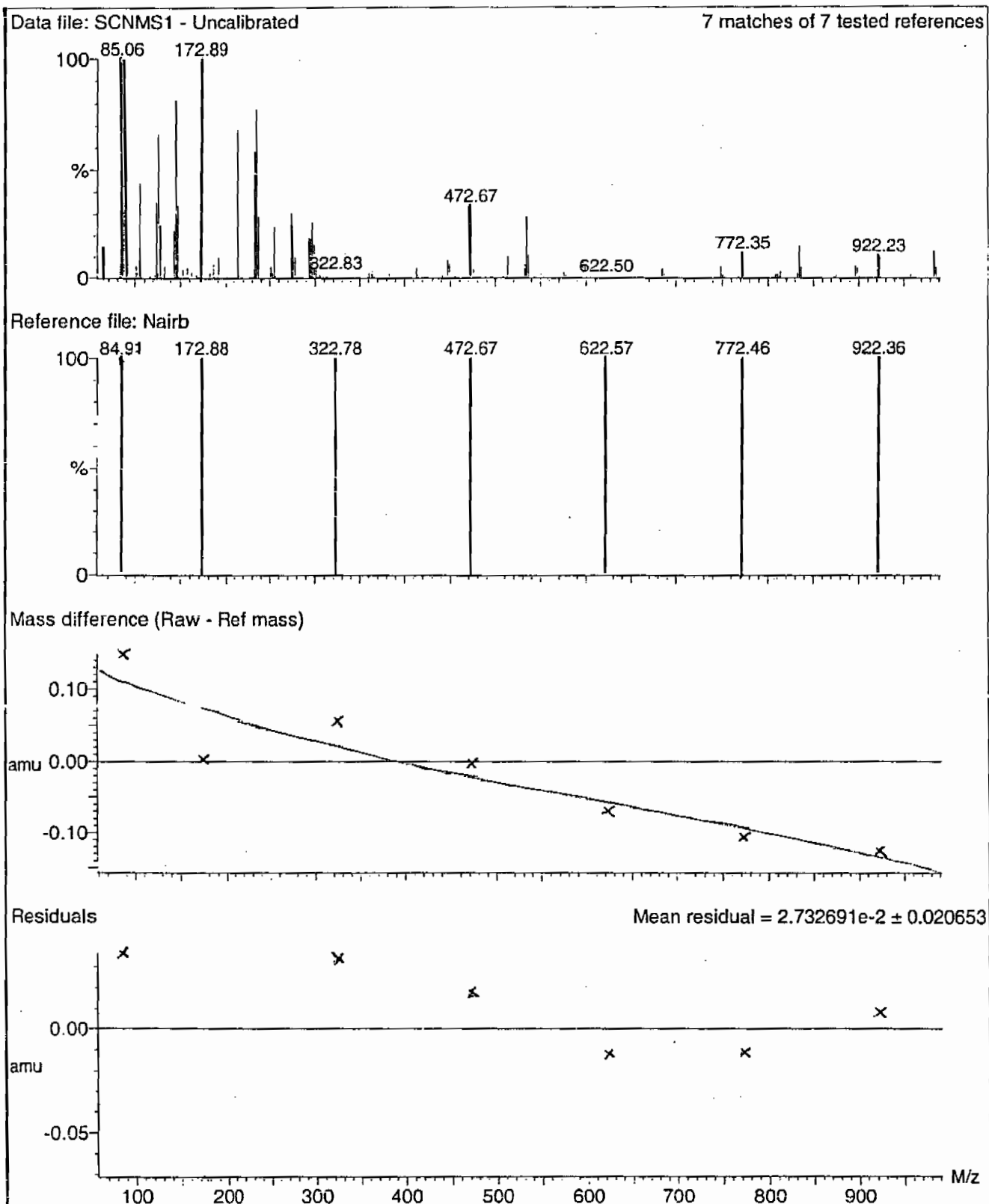
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

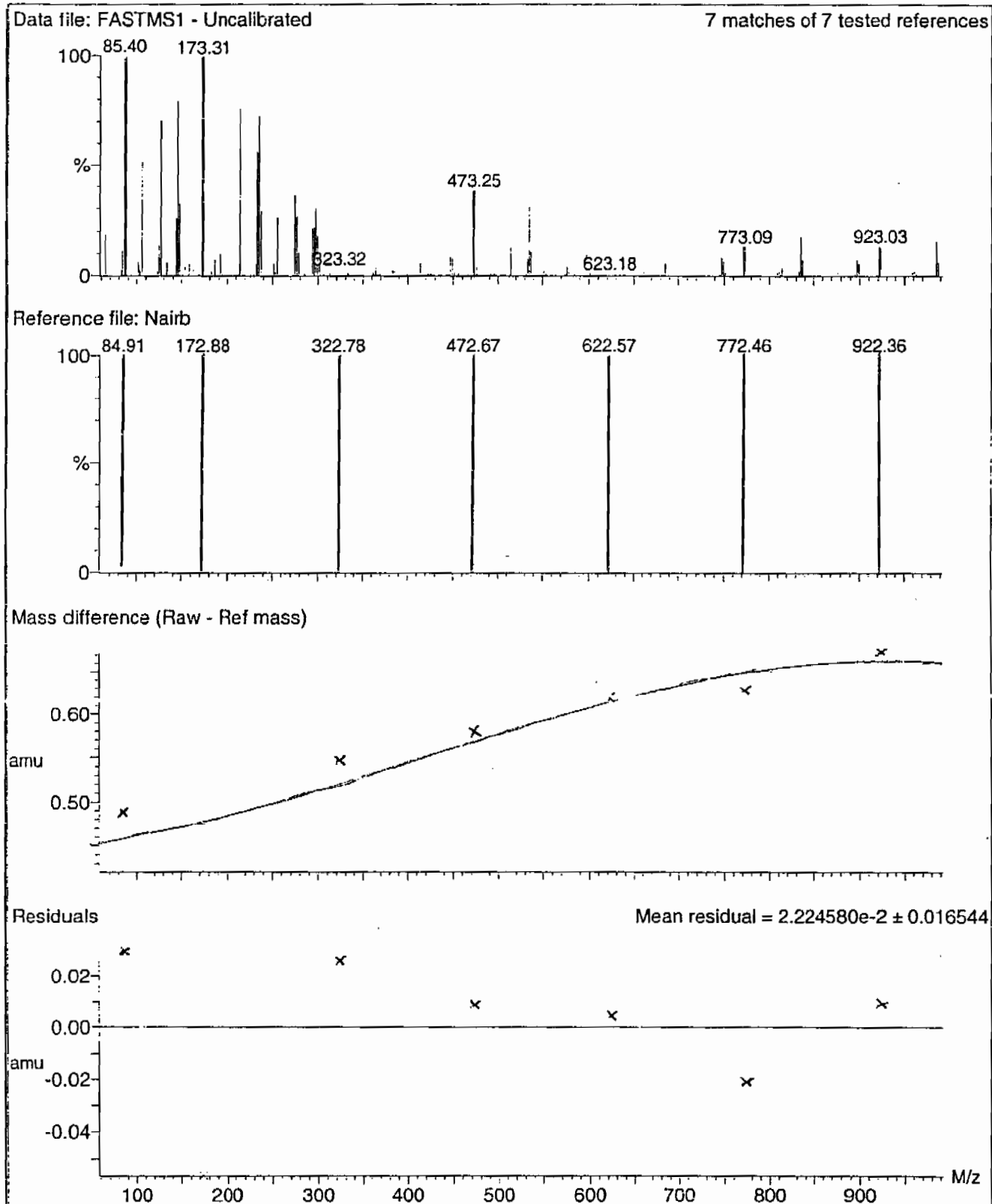
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



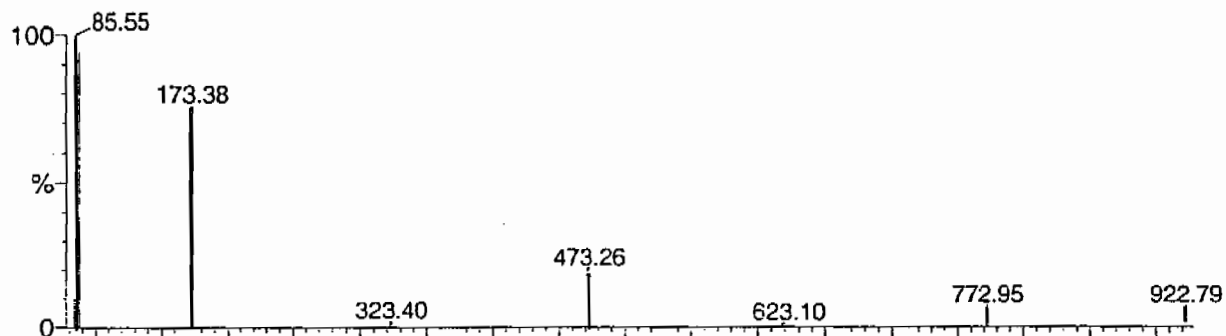
Calibration Report - MS2 Static

Page 1 of 1

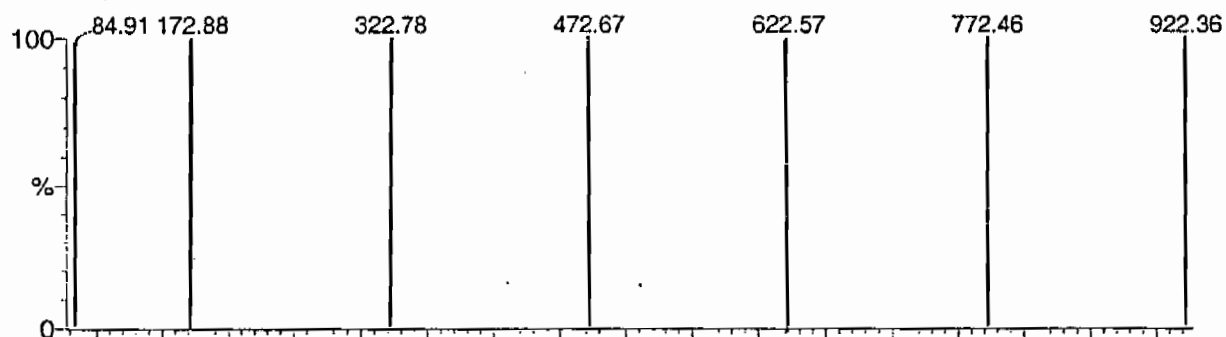
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

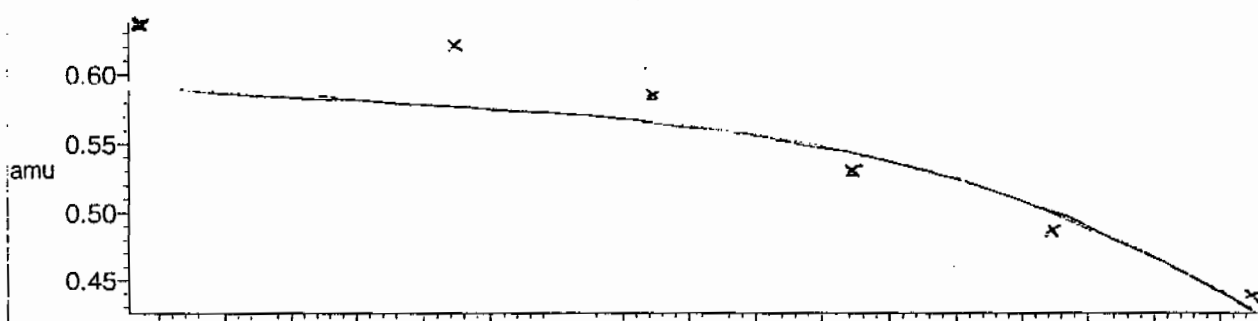
7 matches of 7 tested references



Reference file: Nairb

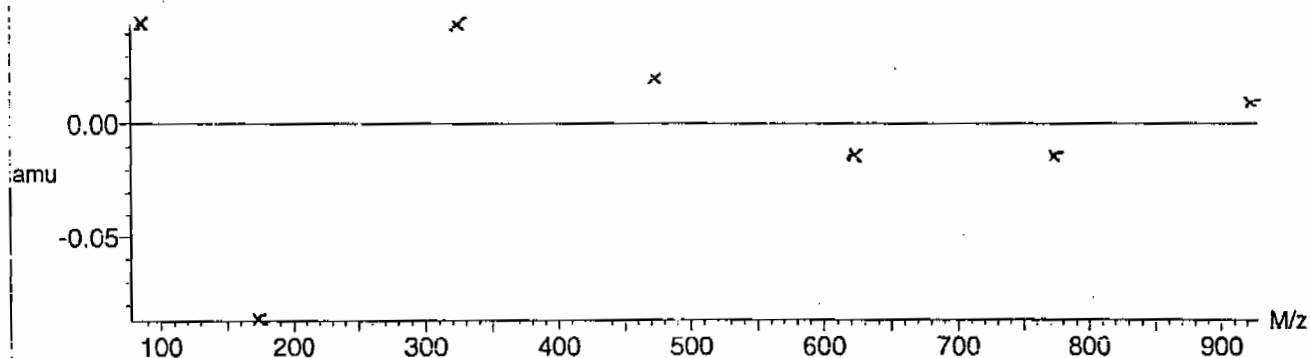


Mass difference (Raw - Ref mass)



Residuals

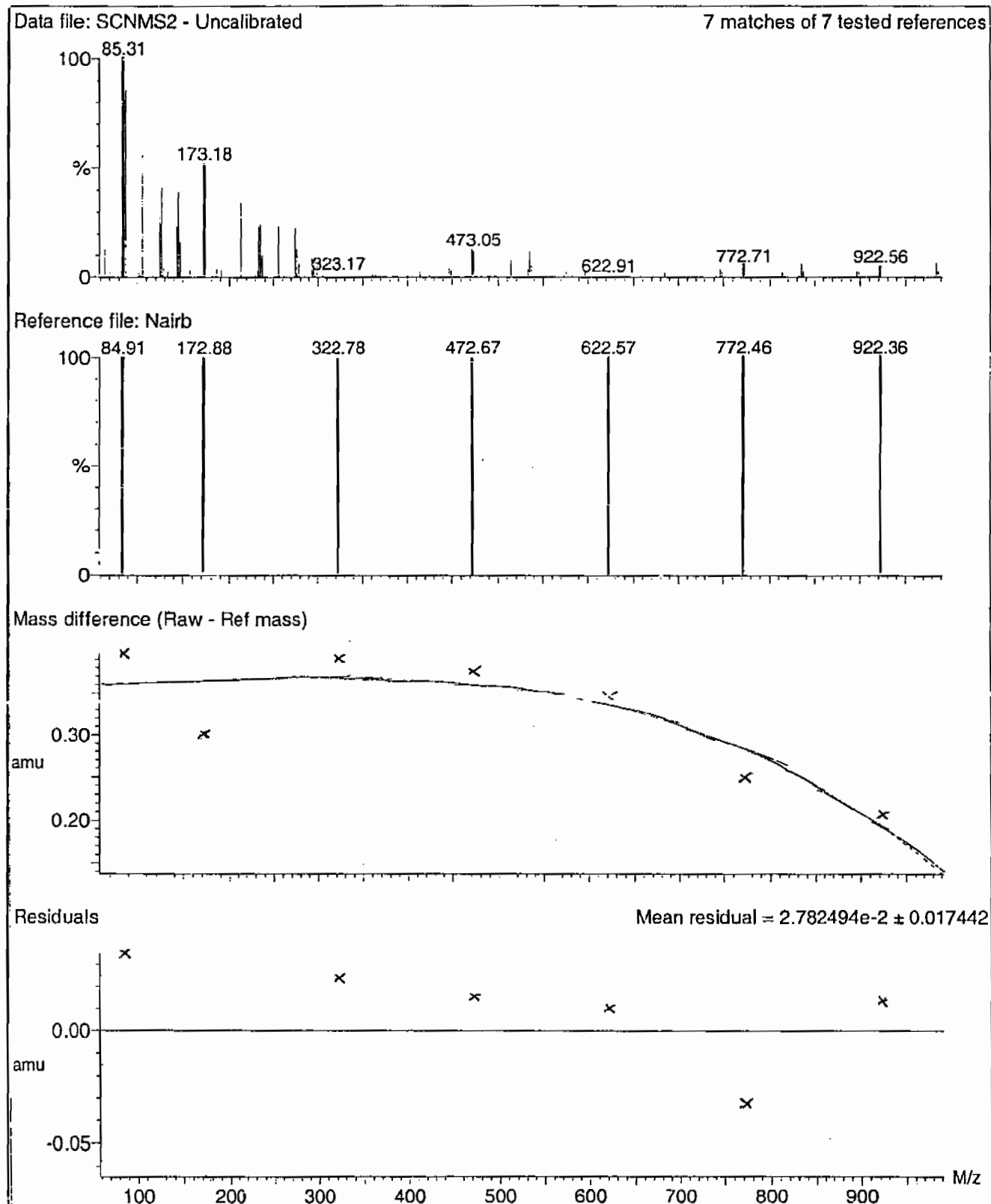
Mean residual = $3.295980 \times 10^{-2} \pm 0.025603$



Calibration Report - MS2 Scanning

Page 1 of 1

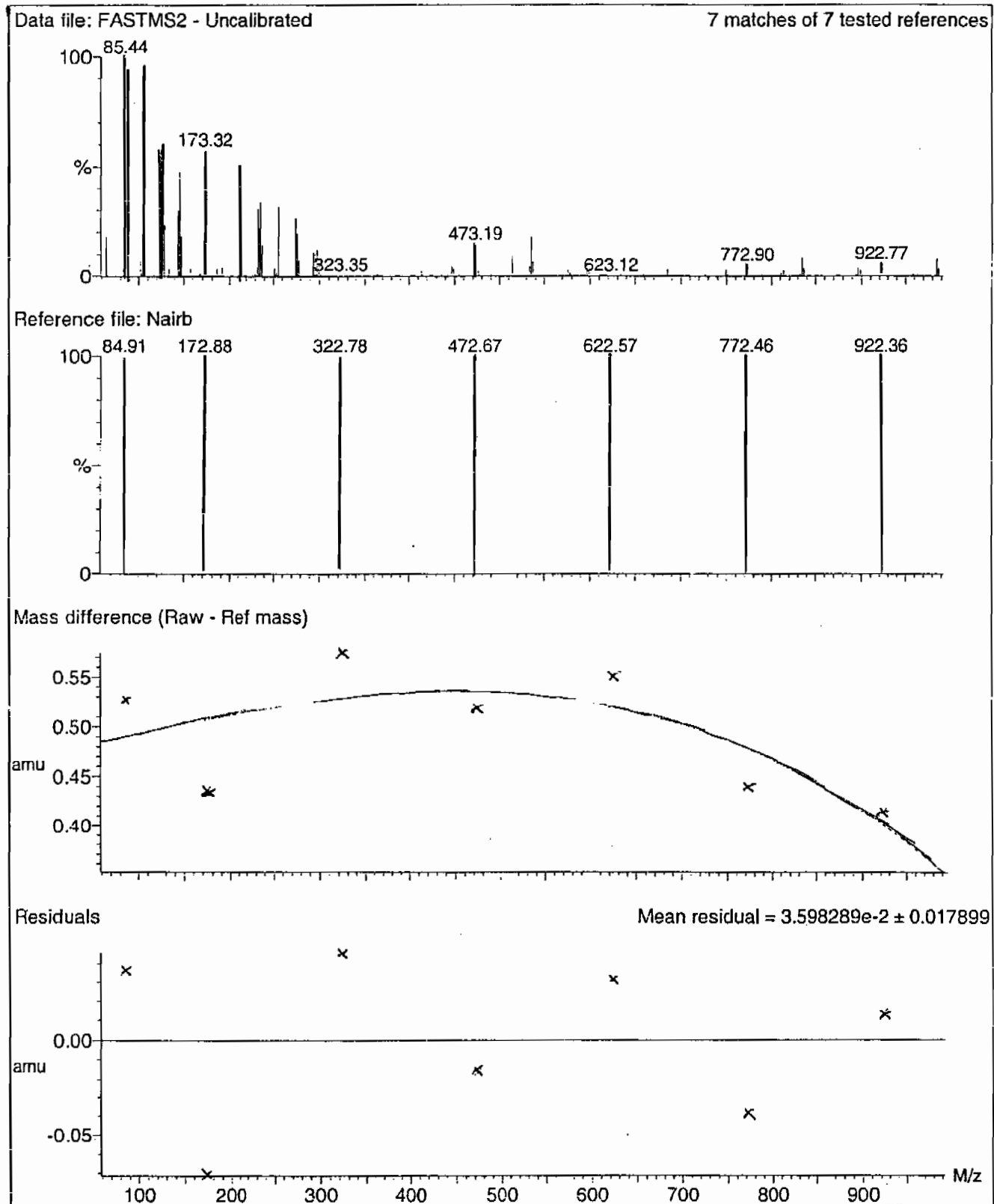
Printed: Tue Jan 08 12:22:56 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



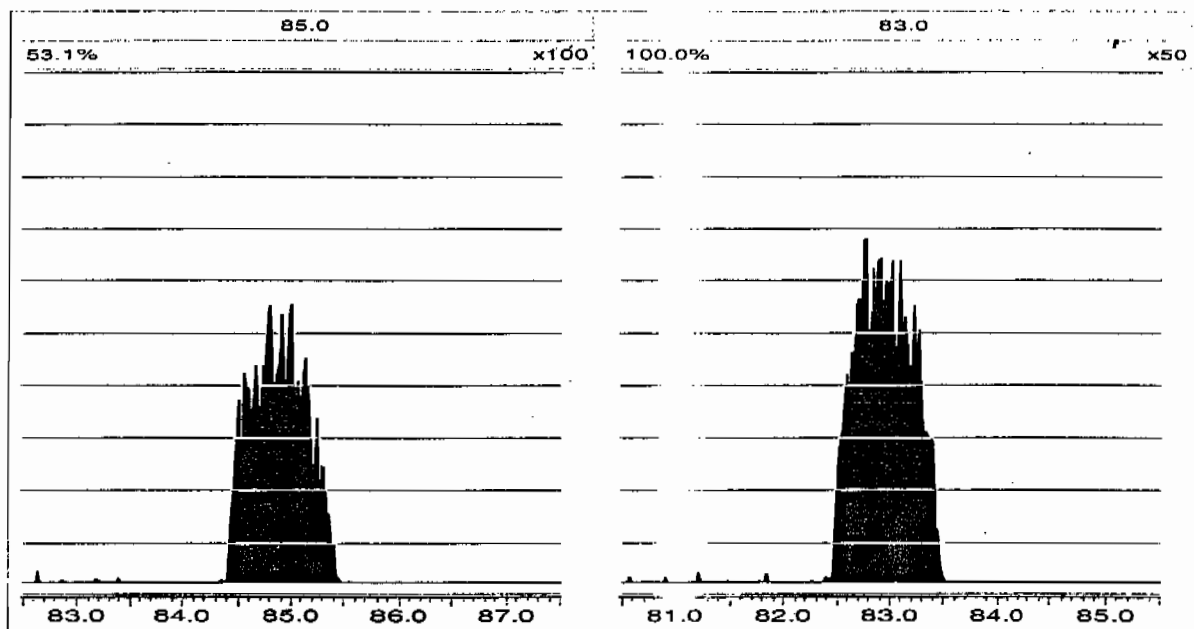
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, January 06, 2010 12:30:22 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

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	per0106006a	06-JAN-10	29150.6				
Lower Area Limit			14575.3				
Upper Area Limit			58301.2				
1202006979	per0106036a	06-JAN-10 19:23	27209.1	2.6	2.61328	1.005	
1202006980	per0106037a	06-JAN-10 19:30	27865.8	2.59	2.61332	1.009	
1202006983	per0106038a	06-JAN-10 19:37	28199.6	2.55	2.56357	1.005	
243626001	per0106051a	06-JAN-10 21:09	27822.7	2.58	2.58837	1.003	
1202006981	per0106052a	06-JAN-10 21:17	25810.7	2.58	2.58835	1.003	
1202006982	per0106053a	06-JAN-10 21:24	27473.5	2.58	2.58835	1.003	
243626002	per0106054a	06-JAN-10 21:31	28156.6	2.58	2.58835	1.003	
243626003	per0106055a	06-JAN-10 21:38	26268.8	2.58	2.5884	1.003	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

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	per0106006a	06-JAN-10	29150.6				
Lower Area Limit			14575.3				
Upper Area Limit			58301.2				
243626004	per0106059a	06-JAN-10 22:07	25785.6	2.58	2.5884	1.003	
243626005	per0106060a	06-JAN-10 22:14	26073.7	2.56	2.58837	1.011	
243626006	per0106061a	06-JAN-10 22:21	26404.9	2.56	2.576	1.006	
243626007	per0106062a	06-JAN-10 22:28	26260	2.56	2.57605	1.006	
243626008	per0106063a	06-JAN-10 22:35	26532.3	2.56	2.57603	1.006	
243626009	per0106064a	06-JAN-10 22:42	27567.1	2.55	2.57605	1.01	
243626010	per0106065a	06-JAN-10 22:49	26114.1	2.56	2.57605	1.006	
243626011	per0106066a	06-JAN-10 22:56	26040.7	2.56	2.57605	1.006	

SAMPLE DATA

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: 237881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7841

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626001

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:09	per0106051a
14797-73-0	Perchlorate-101	.592	2.37	0.592	ug/kg	U	1	06-JAN-10 21:09	per0106051a
	Perchlorate-O(18)			5.69	ug/kg		1	06-JAN-10 21:09	per0106051a

[^] 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

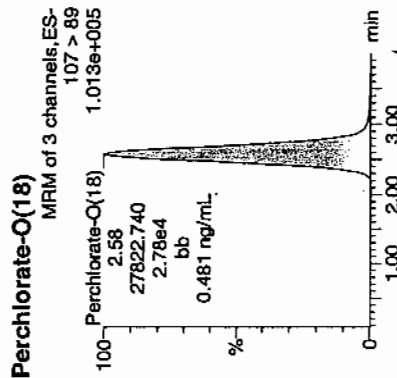
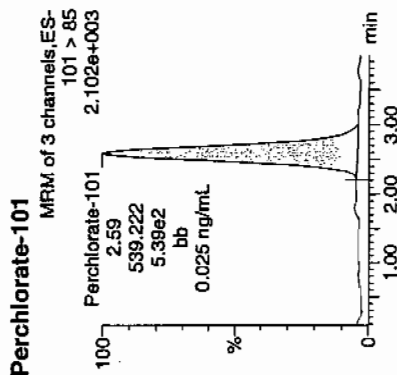
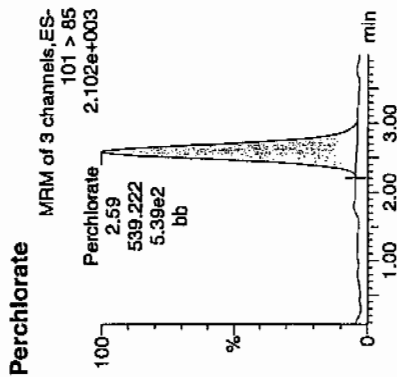
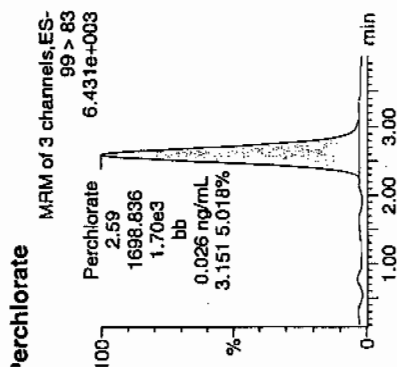
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106051a
Date: 06-Jan-2010
Time: 21:09:54
D: 243626001
File: 2:3.A

666
01-07-10

LANL 1937332 | 5075 | 1 |



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626001	Perchlorate	99 > 83	2.59	1698.836	1698.836	bb			0.0261			138.993	3.15
43626001	Perchlorate-101	101 > 85	2.59	539.222	539.222	bb			0.0253			128.038	
43626001	Perchlorate-O(18)	107 > 89	2.58	27822.740	27822.740	bb			0.4812	96.25	-3.75	4789.1...	

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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7840
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626002
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.656	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate Isotope Ratio			3.05			1	06-JAN-10 21:31	per0106054a
14797-73-0	Perchlorate-101	.597	2.39	0.658	ug/kg	J	1	06-JAN-10 21:31	per0106054a
	Perchlorate-O(18)			5.81	ug/kg		1	06-JAN-10 21:31	per0106054a

[^] 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

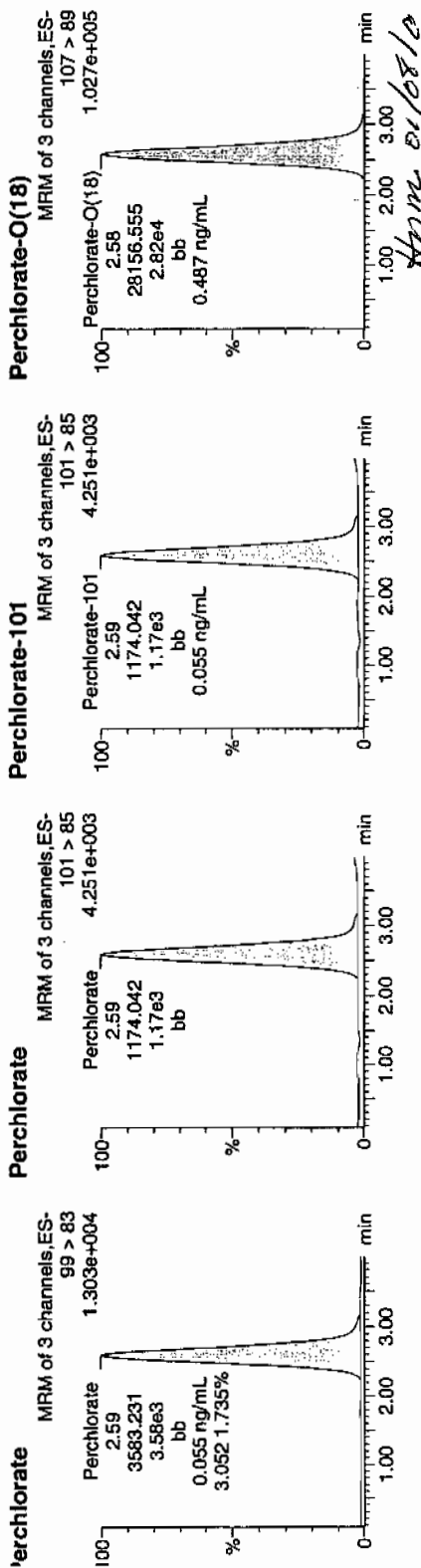
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106054a
Date: 06-Jan-2010
Time: 21:31:45
ID: 243626002
File: 2:3,D

6533
01-07-10

LAUL 937882 | 5020 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626002 Perchlorate	99 > 83	2.59	3583.231	3583.231	bb			0.0550			1290.4...	3.05
43626002 Perchlorate-101	101 > 85	2.59	1174.042	1174.042	bb			0.0551			245.799	
43626002 Perchlorate-O(18)	107 > 89	2.58	28156.555	28156.555	bb			0.4870	97.40	-2.60	10366...	

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7839

Date Received: 29-DEC-02

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626003

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate Isotope Ratio						1	06-JAN-10 21:38	per0106055a
14797-73-0	Perchlorate-101	.566	2.27	0.566	ug/kg	U	1	06-JAN-10 21:38	per0106055a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 21:38	per0106055a

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

*Concentration =

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

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

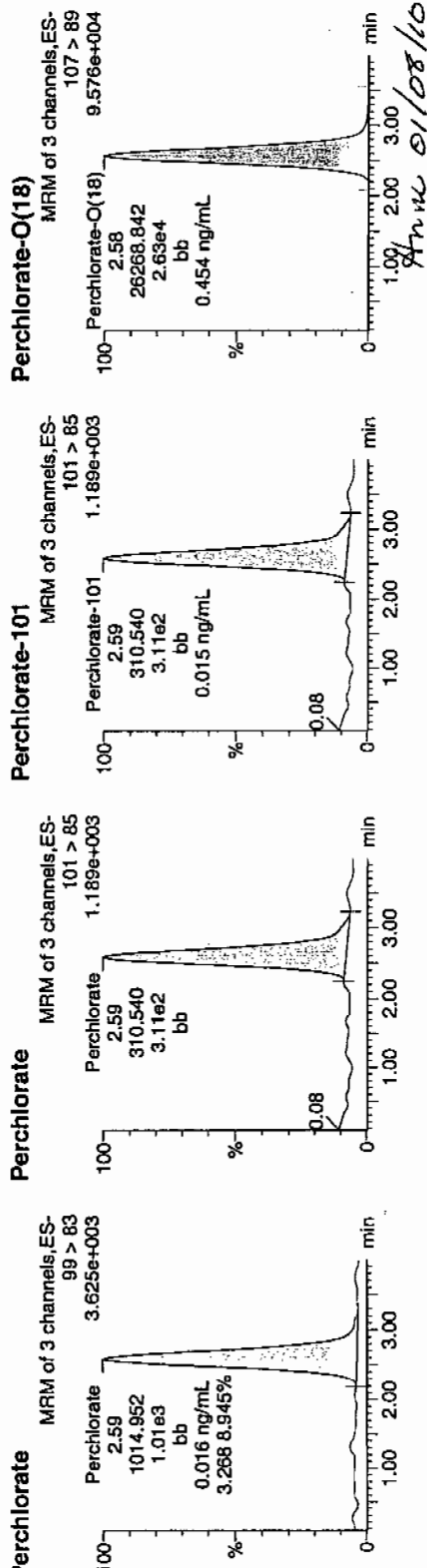
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106055a
Date: 06-Jan-2010
Time: 21:38:46
ID: 243626003
Label: 2:3,E

WWS
01-07-10

LANC 437882 | 5020 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626003 Perchlorate	99 > 83	2.59	1014.952	1014.952	bb			0.0156			150.386	3.27
43626003 Perchlorate-101	101 > 85	2.59	310.540	310.540	bb			0.0146			260.734	
43626003 Perchlorate-O(18)	107 > 89	2.58	26268.842	26268.842	bb			0.4544	90.87	-9.13	11524.000	

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7838

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626004

Date Filtered: 06-JAN-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	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:07	per0106059a
14797-73-0	Perchlorate-101	.639	2.56	0.639	ug/kg	U	1	06-JAN-10 22:07	per0106059a
	Perchlorate-O(18)			5.70	ug/kg		1	06-JAN-10 22:07	per0106059a

[^] 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

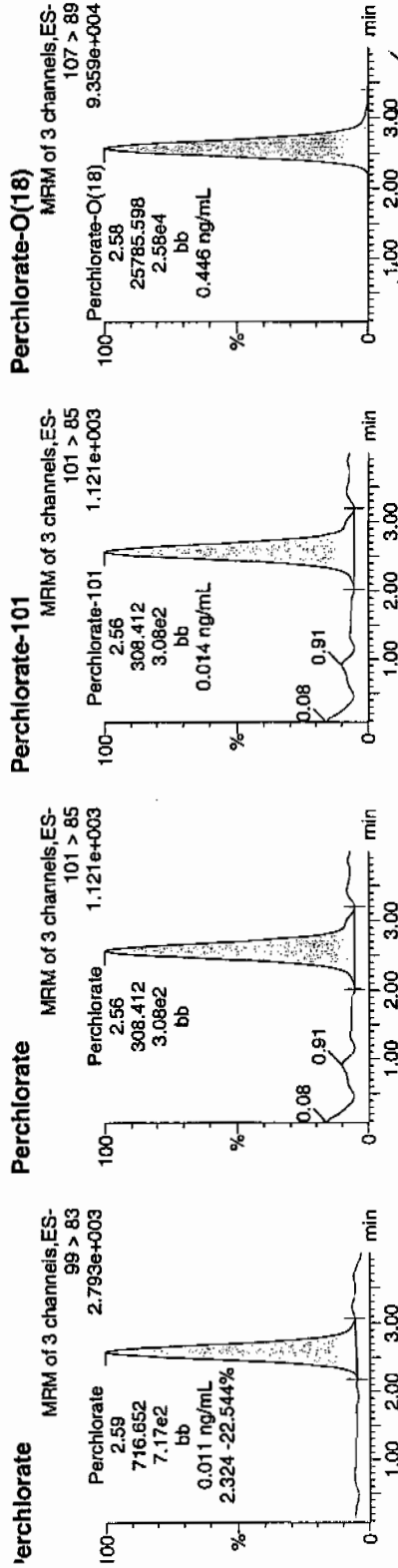
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106059a
Date: 06-Jan-2010
Time: 22:07:26
ID: 243626004
File: 2:3.F

663
01-07-10

LANC | 937882 | 5030 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626004	Perchlorate	2.59	716.652	716.652	bb			0.0110			150.207	2.32
43626004	Perchlorate-101	2.56	308.412	308.412	bb			0.0145			78.180	
43626004	Perchlorate-O(18)	2.58	25785.598	25785.598	bb			0.4460	89.20	-10.80	2148.7...	

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7858

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626005

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:14	per0106060a
14797-73-0	Perchlorate-101	.57	2.28	0.570	ug/kg	U	1	06-JAN-10 22:14	per0106060a
	Perchlorate-O(18)			5.15	ug/kg		1	06-JAN-10 22:14	per0106060a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

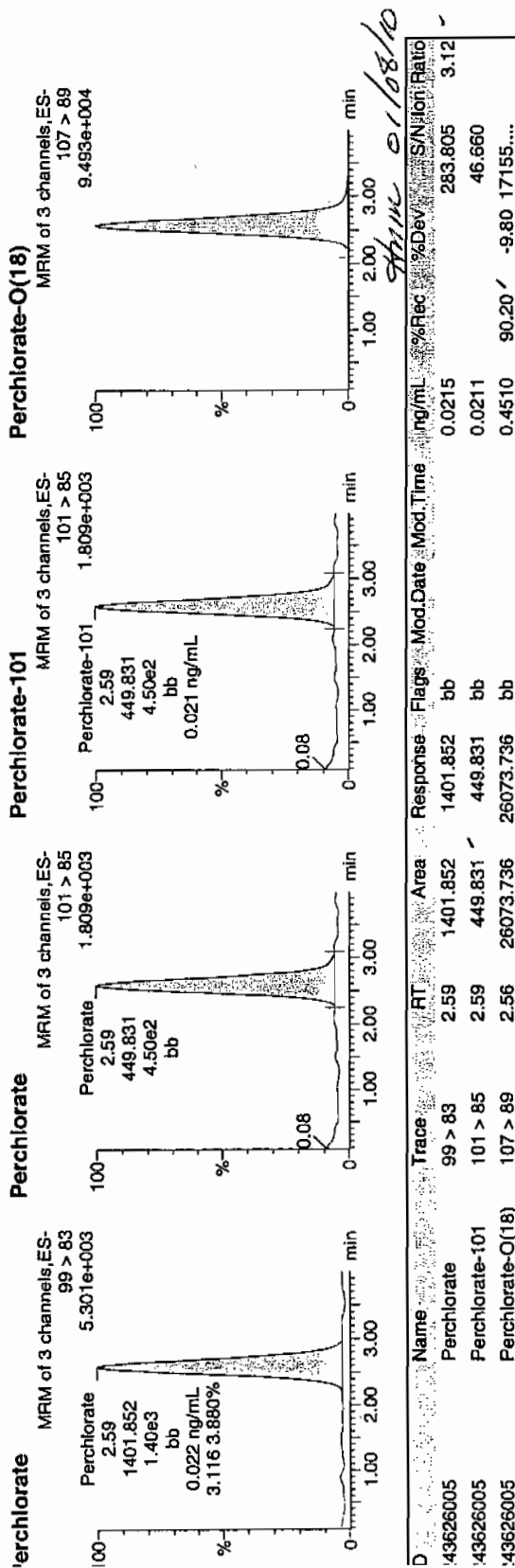
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106060a
Date: 06-Jan-2010
Time: 22:14:39
ID: 243626005
File: 2:4,A

WWS
01-07-10

1910610a | 937832 | 50020 | 11



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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7846

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626006

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:21	per0106061a
14797-73-0	Perchlorate-101	.569	2.27	0.569	ug/kg	U	1	06-JAN-10 22:21	per0106061a
	Perchlorate-O(18)			5.19	ug/kg		1	06-JAN-10 22:21	per0106061a

[^] 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\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106061a

Date: 06-Jan-2010

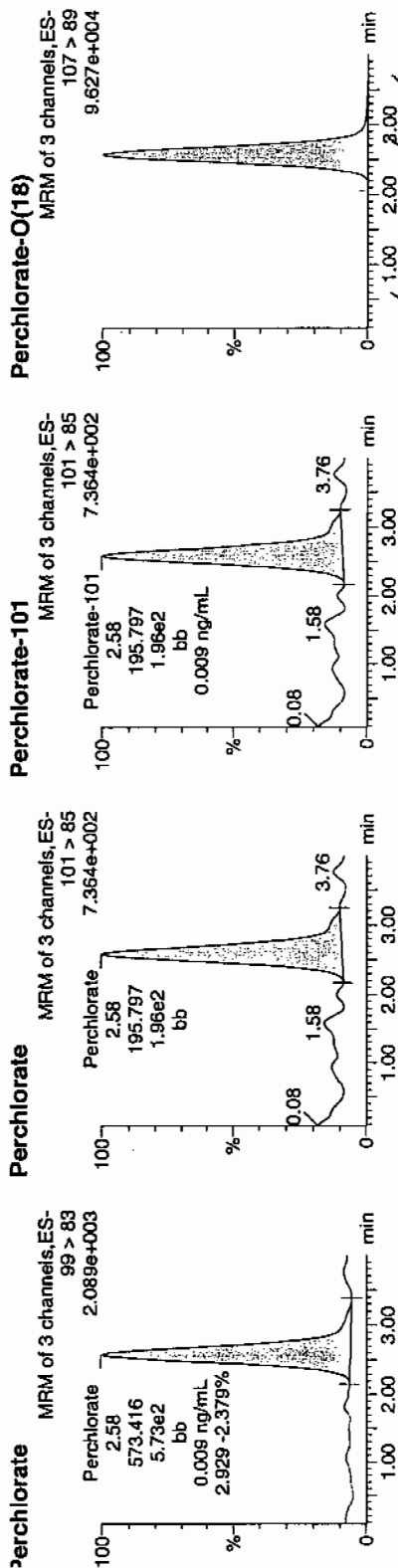
Time: 22:21:42

D: 243626006

/lal: 2:4,B

CWWS
01-07-10

1A11 1937232 | 5020 | 1 |



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
243626006	Perchlorate	99 > 83	2.58	573.416	573.416	bb			0.0088			200.404	2.93
243626006	Perchlorate-101	101 > 85	2.58	195.797	195.797	bb			0.0092			85.713	
243626006	Perchlorate-O(18)	107 > 89	2.56	26404.904	26404.904	bb			0.4567	91.34	-8.66	5141.7...	

ANAL 01/08/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7844

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626007

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte ^a	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	06-JAN-10 22:28	per0106062a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:28	per0106062a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	06-JAN-10 22:28	per0106062a
	Perchlorate-O(18)			5.24	ug/kg		1	06-JAN-10 22:28	per0106062a

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

*Concentration =

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

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

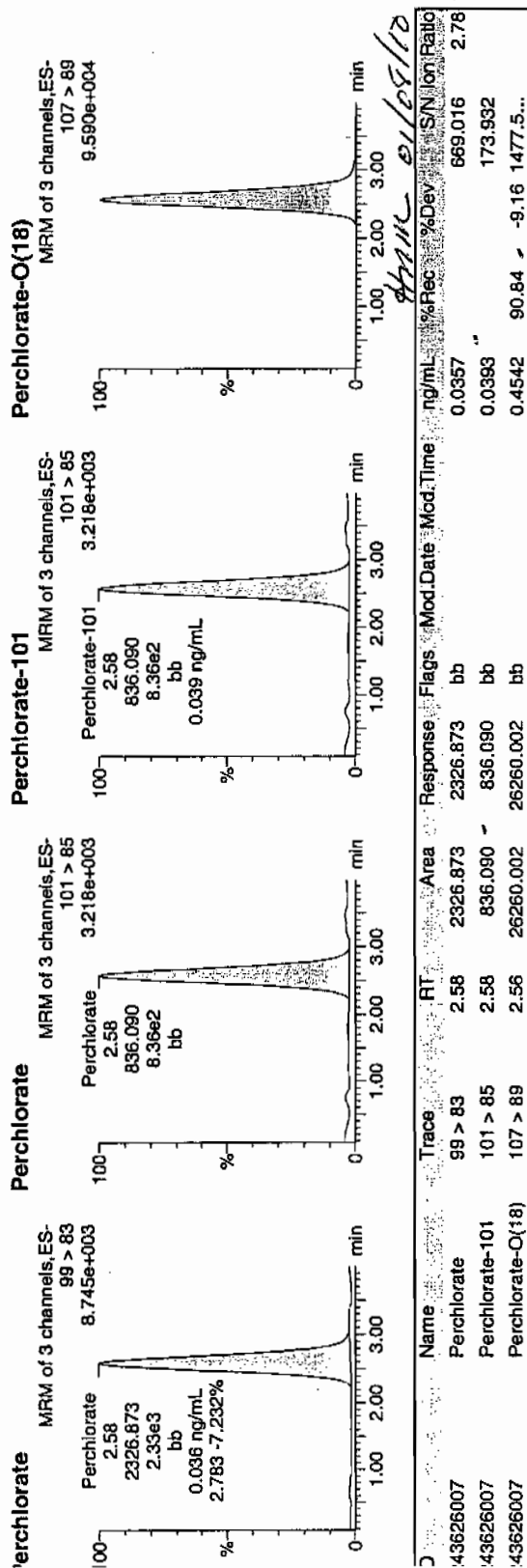
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106062a
Date: 06-Jan-2010
Time: 22:28:45
ID: 243626007
File: 2:4,C

WWS
01-07-10

1922 | 937832 | SOLID | 11



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7845

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626008

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 92.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:35	per0106063a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	06-JAN-10 22:35	per0106063a
	Perchlorate-O(18)			4.96	ug/kg		1	06-JAN-10 22:35	per0106063a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106063a

Sample Date: 06-Jan-2010

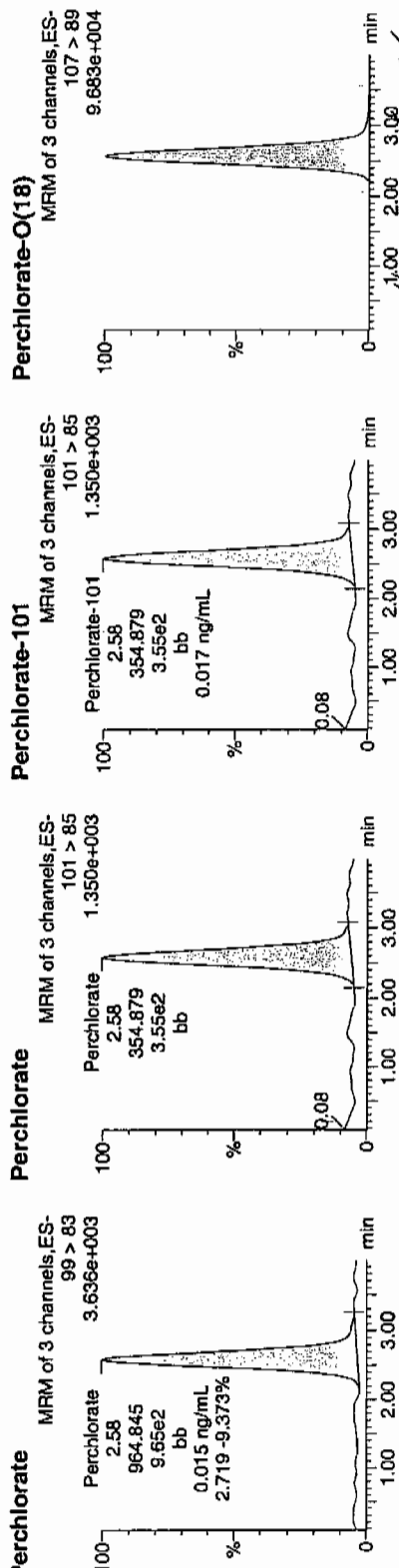
Sample Time: 22:35:48

Sample ID: 243626008

Sample Label: 2:4,D

01-07-10

LANC | 937882 | SOLID | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626008 Perchlorate	99 > 83	2.58	964.845	964.845	bb			0.0148	255.658	2.72		
43626008 Perchlorate-101	101 > 85	2.58	354.879	354.879	bb			0.0167	127.302			
43626008 Perchlorate-O(18)	107 > 89	2.56	26532.346	26532.346	bb			0.4589	91.78	-8.22	6017.3...	

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: 937881
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7842
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101
 GEL Sample ID: 243626009
 Date Filtered: 06-JAN-10
 Injection Volume (uL): 20
 %Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:42	per0106064a
14797-73-0	Perchlorate-101	.58	2.32	0.580	ug/kg	U	1	06-JAN-10 22:42	per0106064a
	Perchlorate-O(18)			5.53	ug/kg		1	06-JAN-10 22:42	per0106064a

[^] 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

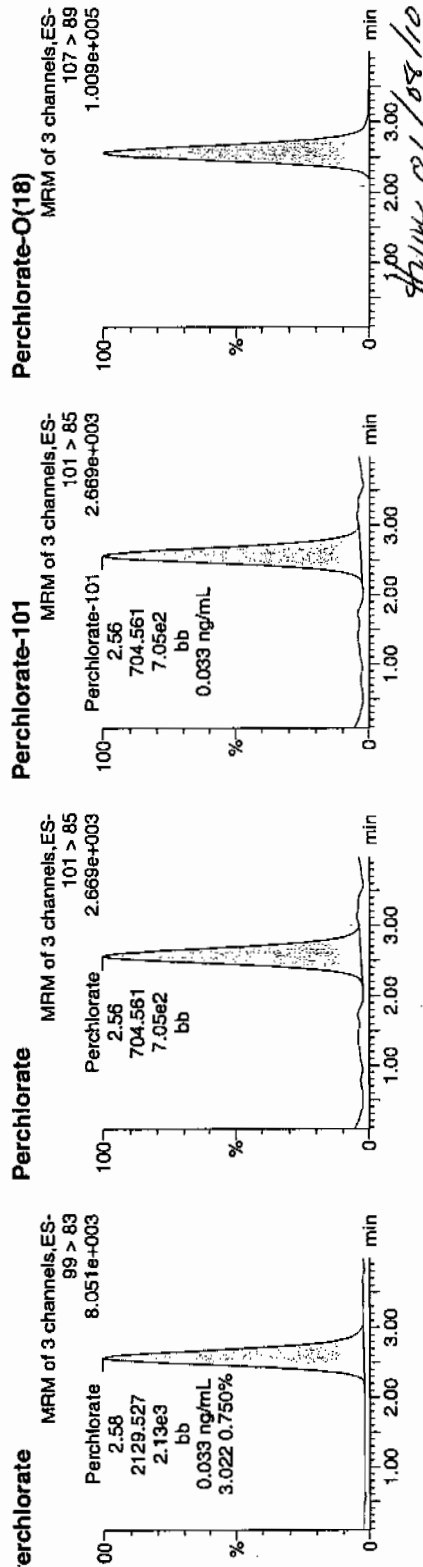
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106064a
Date: 06-Jan-2010
Time: 22:42:50
ID: 243626009
Lot: 2:4,E

01-07-10

LAJL | 937882 | 2010 | 11



Name	Trace	RT	Area	Response	Flags	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
43626009	Perchlorate	2.58	2129.527	2129.527	bb		0.0327	-		943.534	3.02
43626009	Perchlorate-101	2.56	704.561	704.561	bb		0.0331	-		179.420	
43626009	Perchlorate-O(18)	2.55	27567.059	27567.059	bb		0.4768	95.36	-4.64	14159....	

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7843

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626010

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:49	per0106065a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	06-JAN-10 22:49	per0106065a
	Perchlorate-O(18)			5.04	ug/kg		1	06-JAN-10 22:49	per0106065a

[^] 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\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106065a

Date: 06-Jan-2010

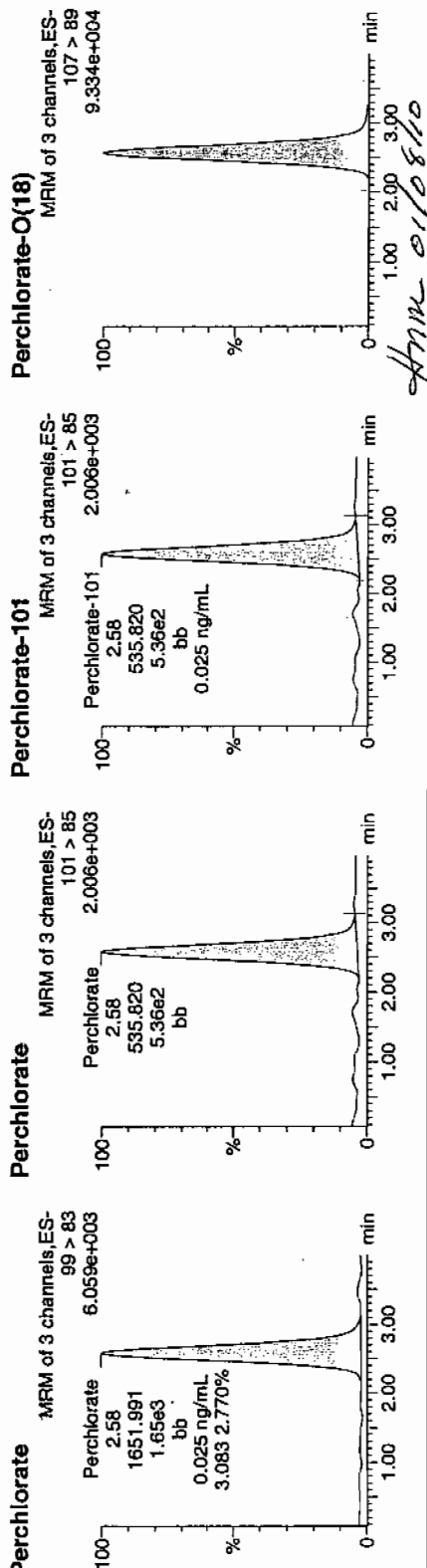
Time: 22:49:52

D: 243626010

File: 2:4,F

Q1-07-10

1.912L | 937.882 | 50.70 | 11



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
243626010	Perchlorate	99 > 83	2.58	1651.991	1651.991	bb			0.0253			319.718	3.08
243626010	Perchlorate-101	101 > 85	2.58	535.820	535.820	bb			0.0252			180.624	
243626010	Perchlorate-O(18)	107 > 89	2.56	26114.078	26114.078	bb			0.4517	90.34	-9.56	2652.8...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7847

Date Received: 29-DEC-02

GEL Job No (SDG): 10-1101

GEL Sample ID: 243626011

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 20.9

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate Isotope Ratio						1	06-JAN-10 22:56	per0106066a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	06-JAN-10 22:56	per0106066a
	Perchlorate-O(18)			4.95	ug/kg		1	06-JAN-10 22:56	per0106066a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106066a

Date: 06-Jan-2010

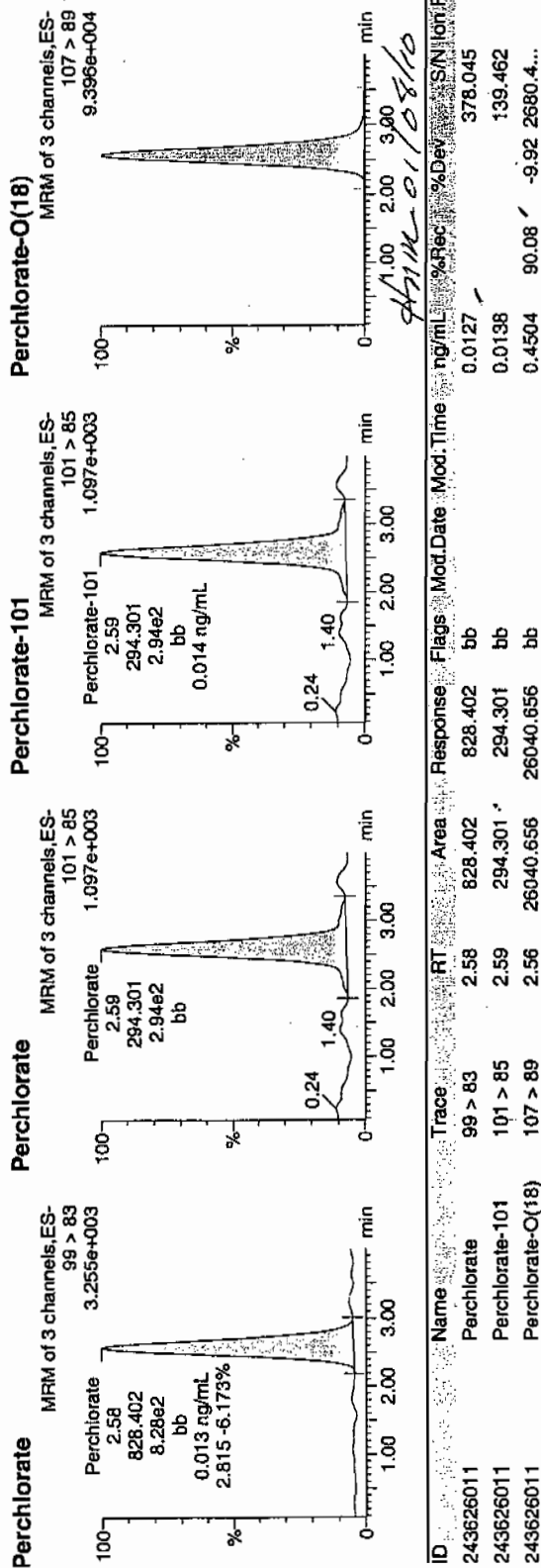
Time: 22:56:53

ID: 243626011

Vial: 2:5,A

2.58
01-07-10

LANC | 137.832 | 5020 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
243626011	Perchlorate	99 > 83	2.58	828.402	828.402	bb			0.0127			378.045	2.81
243626011	Perchlorate-101	101 > 85	2.59	294.301	294.301	bb			0.0138			139.462	
243626011	Perchlorate-Q(18)	107 > 89	2.56	26040.656	26040.656	bb			0.4504	90.08	-9.92	2680.4...	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1101

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 06-JAN-10

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

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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 65186.4

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1101

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 06-JAN-10

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

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

Paramname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 21298.8

Response Type: External Standard

Curve Type: RF

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per010610a.mdb 06 Jan 2010 15:03:34
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per010610a.cdb 07 Jan 2010 08:49:31

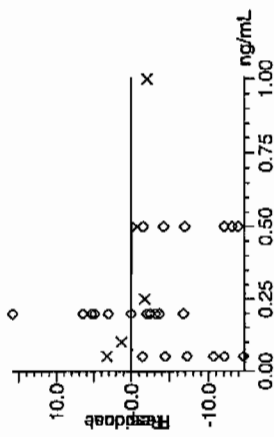
Compound name: Perchlorate

Response Factor: 65186.4

RF SD: 1462.55, % Relative SD: 2.24364

Response type: External Std, Area

Curve type: RF



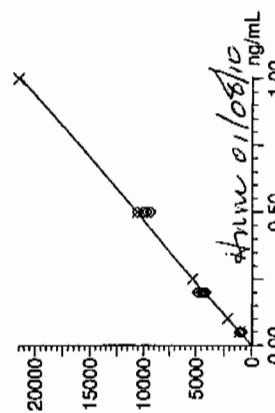
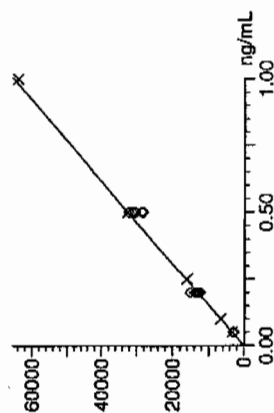
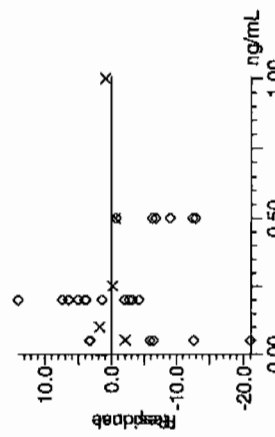
Compound name: Perchlorate-101

Response Factor: 21298.8

RF SD: 311.518, % Relative SD: 1.46261

Response type: External Std, Area

Curve type: RF



01-07-10

01-08-10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

ast Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time

rinted: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

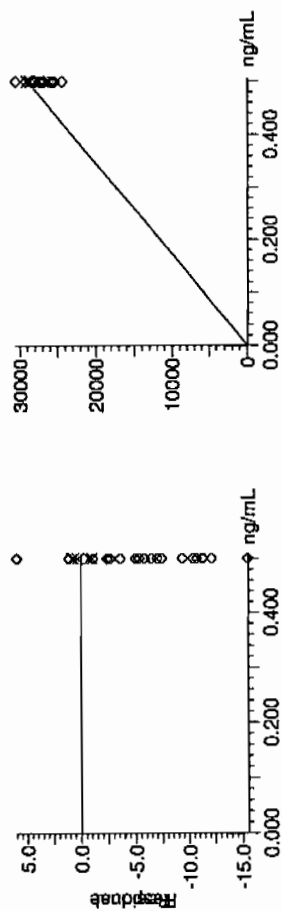
omponent name: Perchlorate-O₂(18)

esponse Factor: 57815.7

RF SD: 487.147, % Relative SD: 0.842587

esponse type: External Std, Area

urve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.44	06-JAN-10 16:13	per0106009a
Perchlorate Isotope Ratio		3.03		06-JAN-10 16:13	per0106009a
Perchlorate-101	.5	.5	99.33	06-JAN-10 16:13	per0106009a

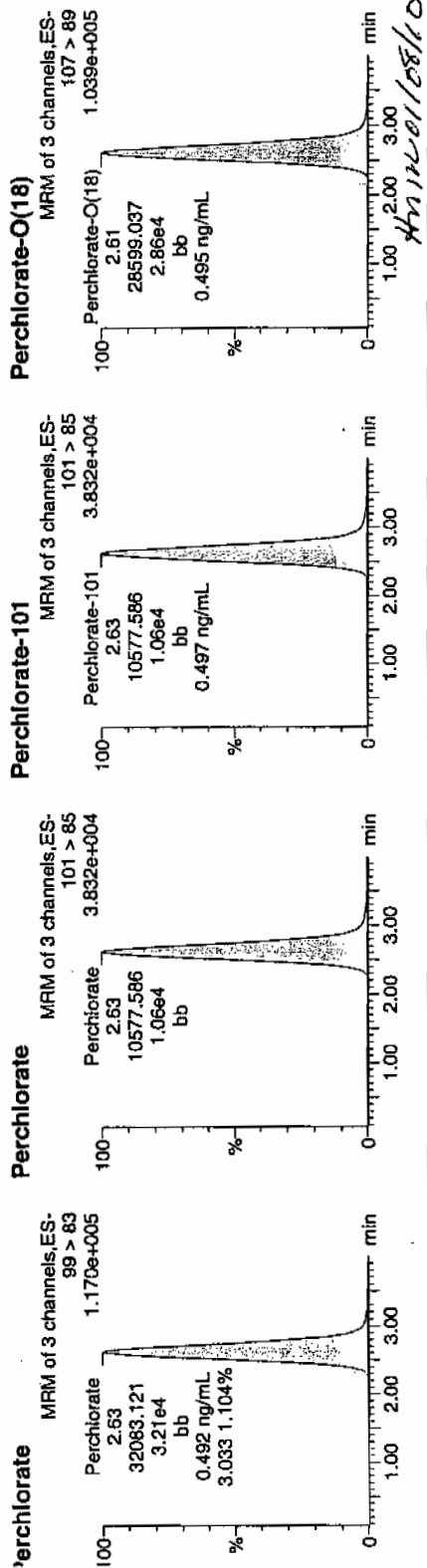
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106009a
Date: 06-Jan-2010
Time: 16:13:04
D: WCL100104-06ICV
File: 1:2,A

Run
and
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
VCL100104-06ICV	Perchlorate	99 > 83	2.63	32083.121	bb			0.4922	98.44	-1.56	5870.1...	3.03
VCL100104-06ICV	Perchlorate-101	101 > 85	2.63	10577.586	bb			0.4966	99.33	-0.67	1002.3...	
VCL100104-06ICV	Perchlorate-O(18)	107 > 89	2.61	28599.037	bb			0.4947	98.93	-1.07	5062.5...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	95.79	06-JAN-10 17:30	per0106020a
Perchlorate Isotope Ratio		3.13		06-JAN-10 17:30	per0106020a
Perchlorate-101	.5	.47	93.79	06-JAN-10 17:30	per0106020a
Perchlorate	.5	.47	93.03	06-JAN-10 19:02	per0106033a
Perchlorate Isotope Ratio		3.06		06-JAN-10 19:02	per0106033a
Perchlorate-101	.5	.47	93.19	06-JAN-10 19:02	per0106033a
Perchlorate	.5	.44	87.94	06-JAN-10 20:26	per0106045a
Perchlorate Isotope Ratio		2.96		06-JAN-10 20:26	per0106045a
Perchlorate-101	.5	.45	90.96	06-JAN-10 20:26	per0106045a
Perchlorate	.5	.43	86.89	06-JAN-10 21:45	per0106056a
Perchlorate Isotope Ratio		3.06		06-JAN-10 21:45	per0106056a
Perchlorate-101	.5	.44	87	06-JAN-10 21:45	per0106056a
Perchlorate	.5	.43	86.1	06-JAN-10 23:03	per0106067a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.01		06-JAN-10 23:03	per0106067a
Perchlorate-101	.5	.44	87.48	06-JAN-10 23:03	per0106067a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106020a

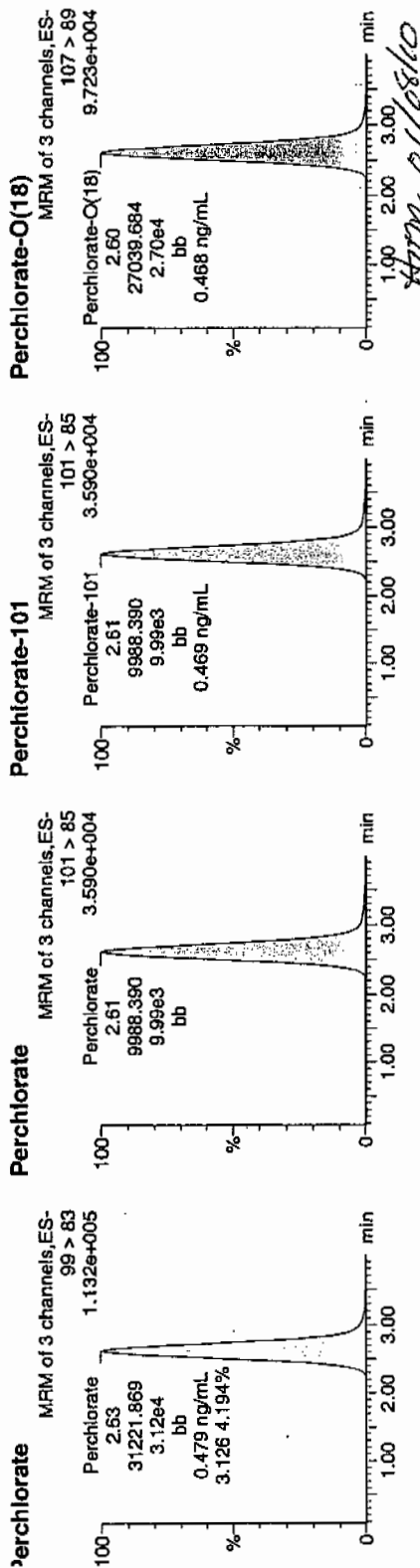
Date: 06-Jan-2010

Time: 17:30:41

D: WCL100104-06CCV

Label: 1:2,A

WCL
01-07-10
(WCL)



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100104-06CCV	Perchlorate	99 > 83	2.63	31221.869	31221.869	bb			0.4790	95.79	-4.21	13705...	3.13
WCL100104-06CCV	Perchlorate-101	101 > 85	2.61	9988.390	9988.390	bb			0.4690	93.79	-6.21	5150.1...	
WCL100104-06CCV	Perchlorate-O(18)	107 > 89	2.60	27039.684	27039.684	bb			0.4677	93.54	-6.46	3564.5...	

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106033a

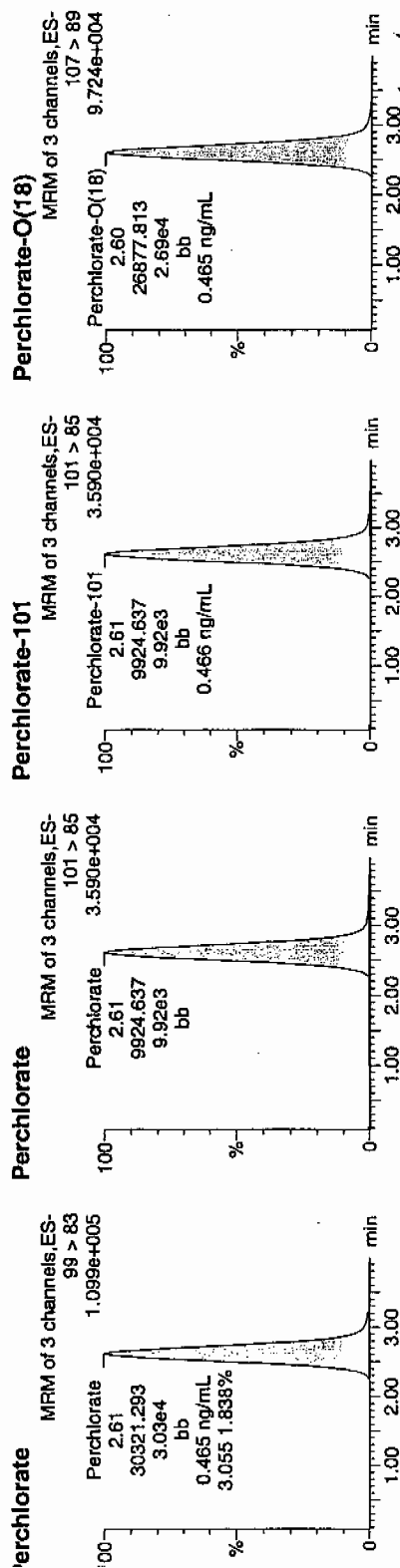
Date: 06-Jan-2010

Time: 19:02:14

File: WCL100104-06CCV

Label: 1:2,A

Perchlorate
CWSW
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100104-06CCV	Perchlorate	2.61	30321.293	30321.293	bb		0.4651	93.03	-6.97	4640.9...	3.06
/CL100104-06CCV	Perchlorate-101	2.61	9924.637	9924.637	bb		0.4660	93.19	-6.81	1695.1...	
/CL100104-06CCV	Perchlorate-O(18)	2.60	26877.813	26877.813	bb		0.4649	92.98	-7.02	10704...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106045a

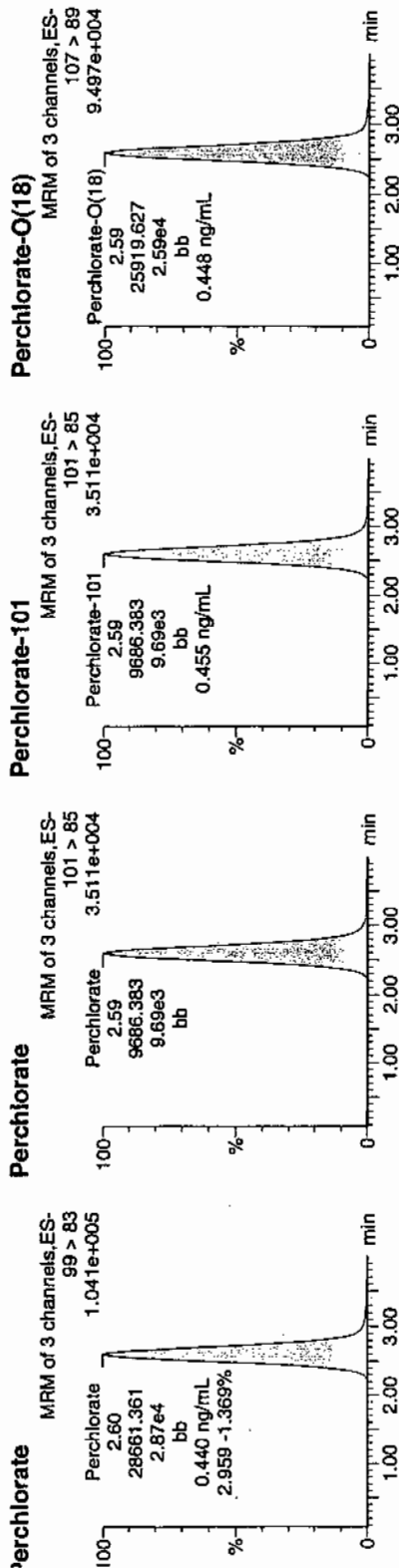
Date: 06-Jan-2010

Time: 20:26:49

D: WCL100104-06CCV

File: 1:2,A

Pass
CWS
01.07.10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100104-06CCV	Perchlorate	2.60	28661.361	28661.361	bb			0.4397	87.94	-12.06	4833.3...	2.96
VCL100104-06CCV	Perchlorate-101	2.59	9686.383	9686.383	bb			0.4548	90.96	-9.04	4048.8...	
VCL100104-06CCV	Perchlorate-O(18)	2.59	25919.627	25919.627	bb			0.4483	89.66	-10.34	11856...	

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

atset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

st Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
rinted: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

ame: per0106056a

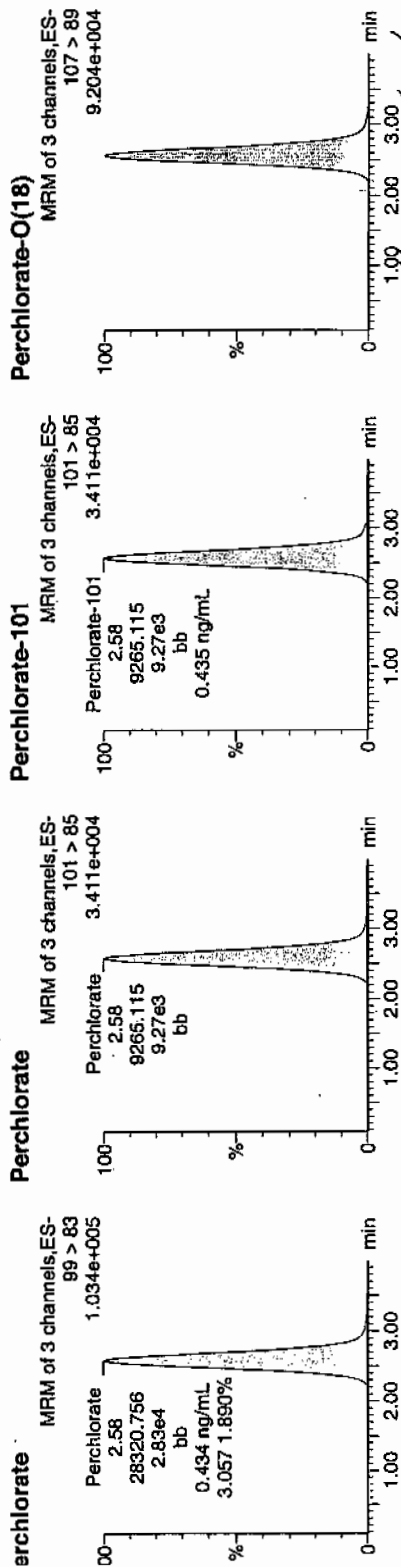
ate: 06-Jan-2010

ime: 21:45:48

i: WCL100104-06CCV

ial: 1:2,A

Pers
WWS
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
'CL100104-06CCV	99 > 83	2.58	28320.756	28320.756	bb			0.4345	86.89	-13.11	2760.2...	3.06
'CL100104-06CCV	101 > 85	2.58	9265.115	9265.115	bb			0.4350	87.00	-13.00	3635.5...	
'CL100104-06CCV	107 > 89	2.56	25387.102	25387.102	bb			0.4391	87.82	-12.18	7899.5...	

Quantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

ast Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time

rinted: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

lame: per0106067a

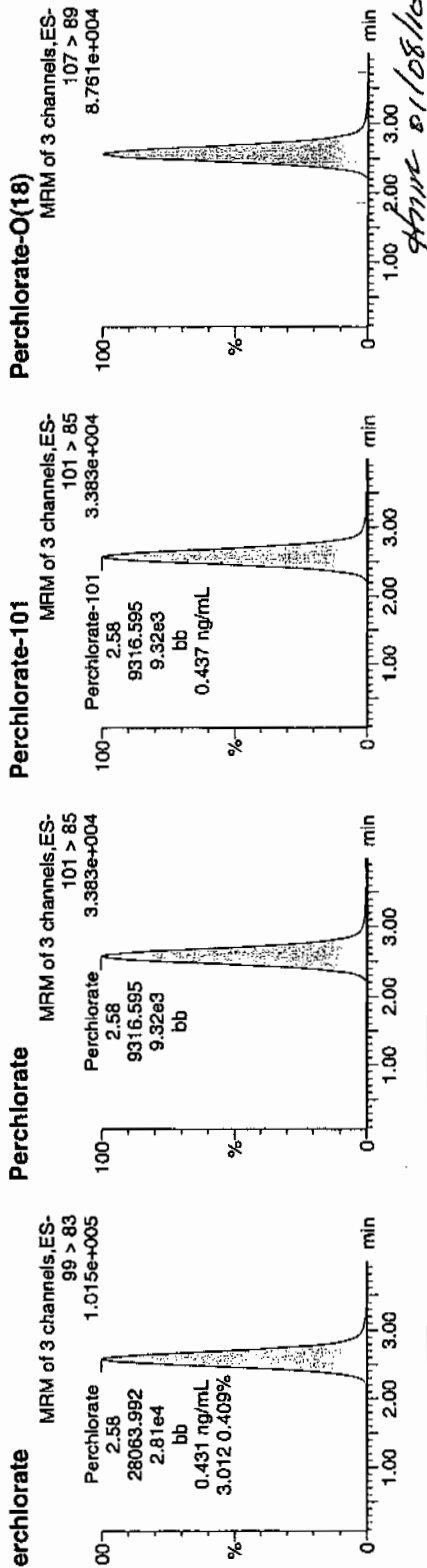
late: 06-Jan-2010

ime: 23:03:58

D: WCL100104-06CCV

ial: 1:2,A

*Pass
and
01-08-10*



Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	% Rec	% Dev	S/N	Ion Ratio
/CL100104-06CCV	99 > 83	2.58	28063.992	28063.992	bb			0.4305	86.10	-13.90	3157.7...	3.01
/CL100104-06CCV	101 > 85	2.58	9316.595	9316.595	bb			0.4374	87.48	-12.52	1813.1...	
/CL100104-06CCV	107 > 89	2.56	24433.059	24433.059	bb			0.4226	84.52	-15.48	10453...	

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1101

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	98.55	06-JAN-10 16:27	per0106011a
Perchlorate Isotope Ratio		2.92		06-JAN-10 16:27	per0106011a
Perchlorate-101	.05	.05	103.27	06-JAN-10 16:27	per0106011a
Perchlorate	.05	.05	95.61	06-JAN-10 17:44	per0106022a
Perchlorate Isotope Ratio		3.11		06-JAN-10 17:44	per0106022a
Perchlorate-101	.05	.05	94.14	06-JAN-10 17:44	per0106022a
Perchlorate	.05	.05	92.77	06-JAN-10 19:16	per0106035a
Perchlorate Isotope Ratio		2.74		06-JAN-10 19:16	per0106035a
Perchlorate-101	.05	.05	103.47	06-JAN-10 19:16	per0106035a
Perchlorate	.05	.04	87.9	06-JAN-10 20:41	per0106047a
Perchlorate Isotope Ratio		3.08		06-JAN-10 20:41	per0106047a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	87.37	06-JAN-10 20:41	per0106047a
Perchlorate	.05	.04	89.35	06-JAN-10 22:00	per0106058a
Perchlorate Isotope Ratio		2.92		06-JAN-10 22:00	per0106058a
Perchlorate-101	.05	.05	93.59	06-JAN-10 22:00	per0106058a
Perchlorate	.05	.04	85.37	06-JAN-10 23:18	per0106069a
Perchlorate Isotope Ratio		3.31		06-JAN-10 23:18	per0106069a
Perchlorate-101	.05	.04	79	06-JAN-10 23:18	per0106069a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106011a

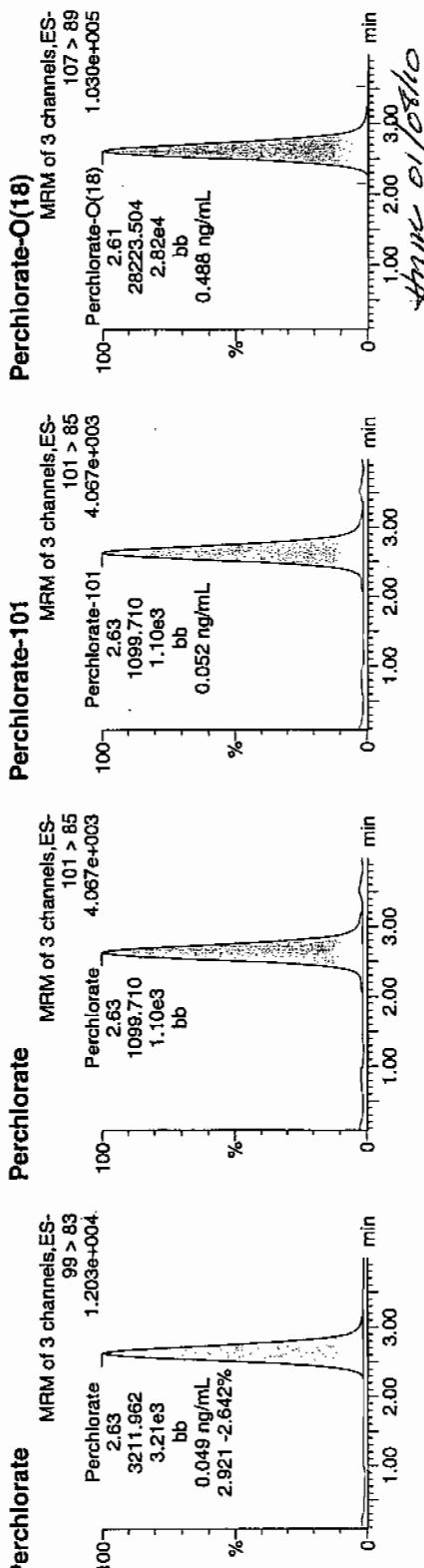
Sample Date: 06-Jan-2010

Sample Time: 16:27:19

Sample ID: WCL100104-07CRI

Sample Label: 1:2,B

WCL
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100104-07CRI	Perchlorate	2.63	3211.962	3211.962	bb			0.0493	98.55	-1.45	604.902	2.92
WCL100104-07CRI	Perchlorate-101	2.63	1099.710	1099.710	bb			0.0516	103.27	3.27	335.294	
WCL100104-07CRI	Perchlorate-O(18)	2.61	28223.504	28223.504	bb			0.4882	97.63	-2.37	4006.4...	

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

atset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

ast Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
rinted: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

ame: per0106022a

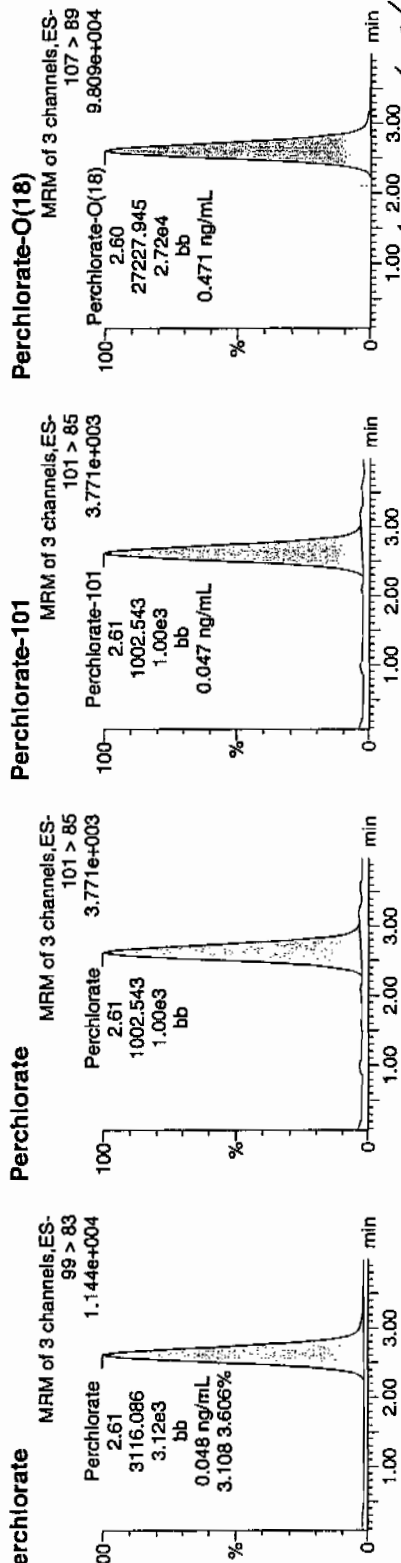
ate: 06-Jan-2010

ime: 17:44:45

Y: WCL100104-07CRI

lal: 1:2,B

Plan
CWL
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100104-07CRI	Perchlorate	99 > 83	3116.086	3116.086	bb			0.0478	95.61	-4.39	252.584	3.11
/CL100104-07CRI	Perchlorate-101	101 > 85	1002.543	1002.543	bb			0.0471	94.14	-5.86	346.672	
/CL100104-07CRI	Perchlorate-O(18)	107 > 89	27227.945	27227.945	bb			0.4709	94.19	-5.81	6823.2...	

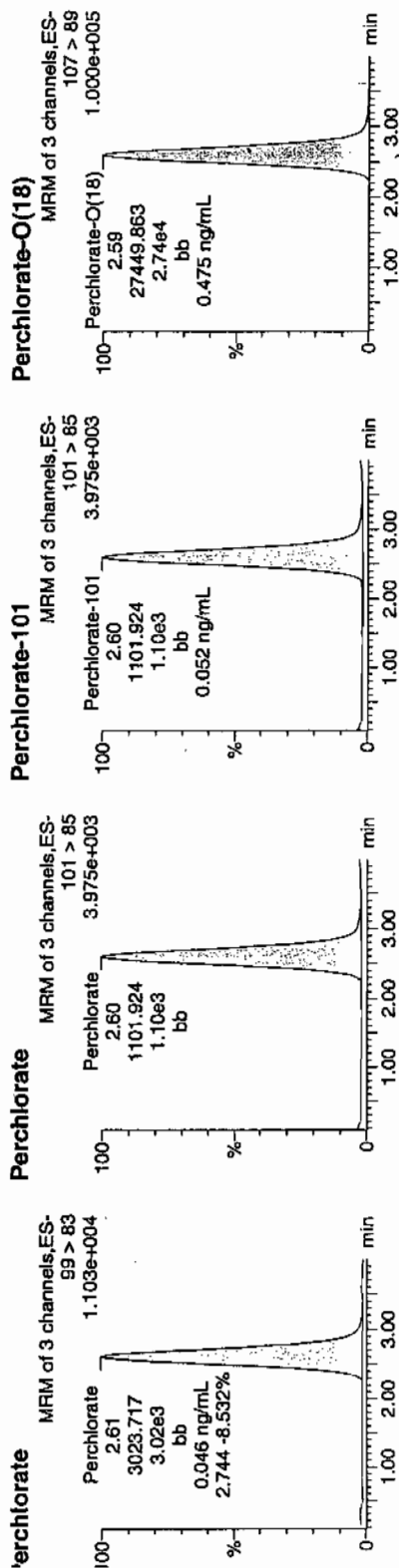
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106035a
Date: 06-Jan-2010
Time: 19:16:18
Job: WCL100104-07CRI
File: 1:2,B

Pers
CWS
9-27-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100104-07CRI	Perchlorate	99 > 83	3023.717	3023.717	bb			0.0464	92.77	-7.23	291.875	2.74
VCL100104-07CRI	Perchlorate-101	101 > 85	1101.924	1101.924	bb			0.0517	103.47	3.47	402.593	
VCL100104-07CRI	Perchlorate-O(18)	107 > 89	27449.863	27449.863	bb			0.4748	94.96	-5.04	30030.000	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106047a

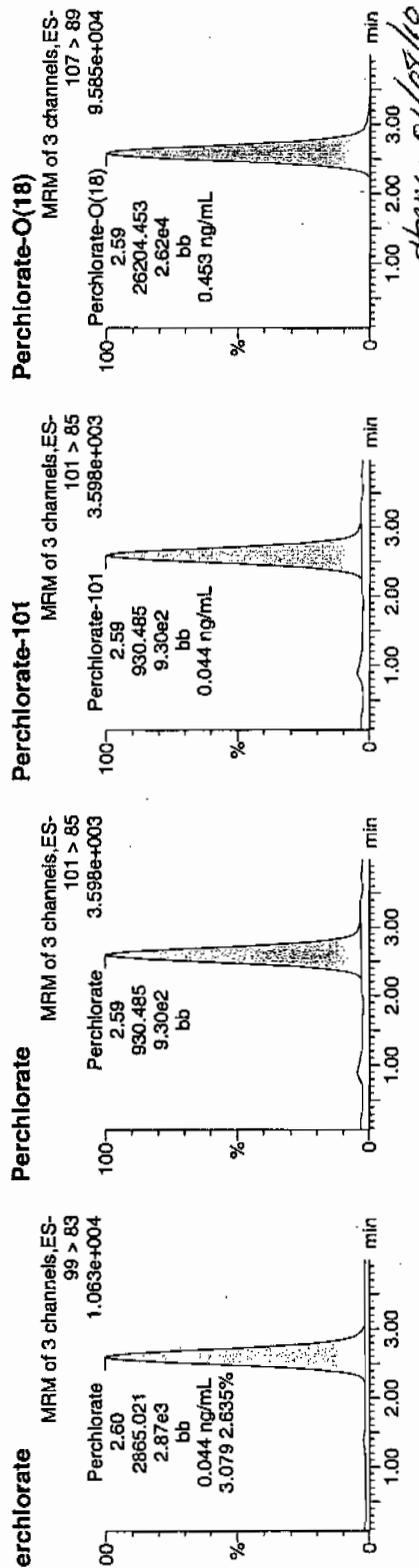
Date: 06-Jan-2010

Time: 20:41:08

File: WCL100104-07CRI

Label: 1:2,B

Pass
CWC
01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
'CL100104-07CRI	99 > 83	2.60	2865.021	2865.021	bb			0.0440	87.90	-12.10	736.552	3.08
'CL100104-07CRI	101 > 85	2.59	930.485	930.485	bb			0.0437	87.37	-12.63	177.794	
'CL100104-07CRI	107 > 89	2.59	26204.453	26204.453	bb			0.4532	90.65	-9.35	27793....	

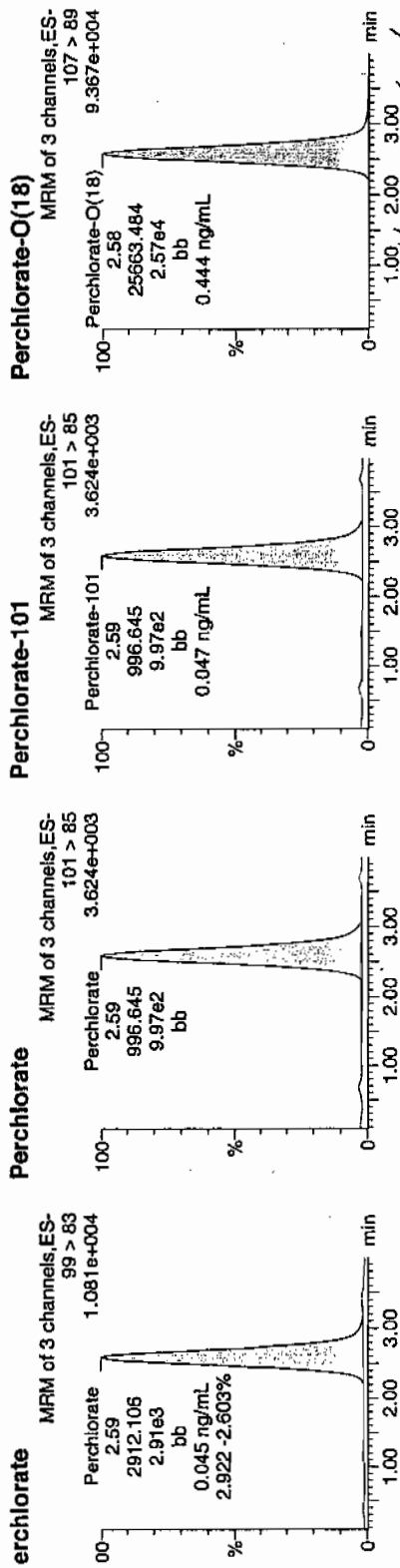
Quantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Acquired: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106058a
 Date: 06-Jan-2010
 Time: 22:00:16
 File: WCL100104-07CRI
 Label: 1:2,B

Pure
 and
 01-07-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100104-07CRI	Perchlorate	99 > 83	2.59	2912.106				0.0447	89.35	-10.65	1059.9...	2.92
/CL100104-07CRI	Perchlorate-101	101 > 85	2.59	996.645	bb			0.0468	93.59	-6.41	354.271	
/CL100104-07CRI	Perchlorate-O(18)	107 > 89	2.58	25663.484	bb			0.4439	88.78	-11.22	6957.0...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106069a

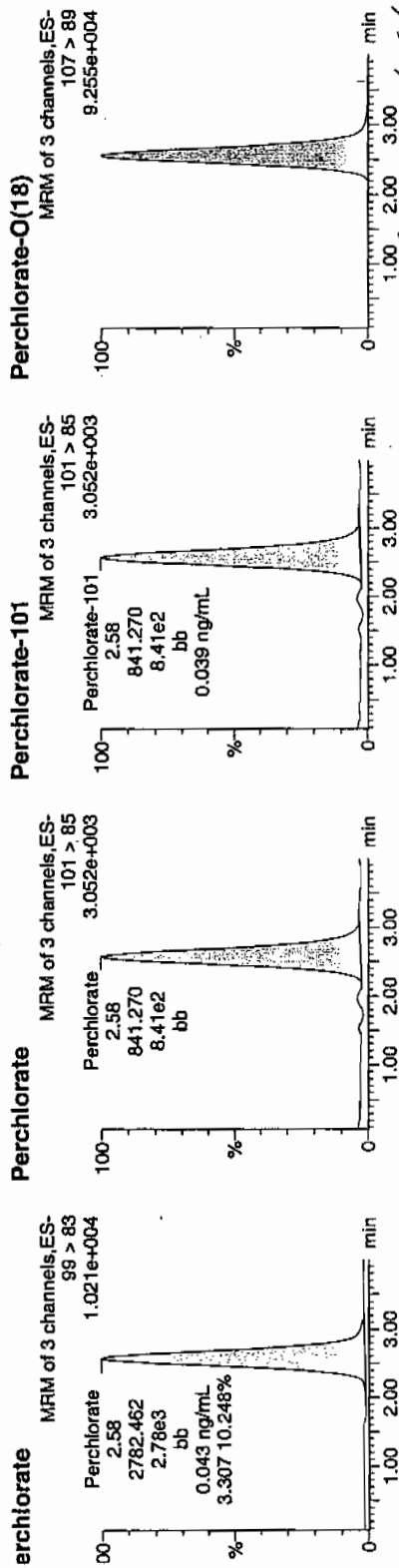
Sample Date: 06-Jan-2010

Sample Time: 23:18:24

Sample ID: WCL100104-07CRI

Sample Label: 1:2,B

Pass
01-09-10



Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100104-07CRI	Perchlorate	9.255	2782.462	2782.462	bb			0.0427	85.37	-14.63	770.418	3.31
CL100104-07CRI	Perchlorate-101	101 > 85	841.270	841.270	bb			0.0395	79.00	-21.00	207.727	
CL100104-07CRI	Perchlorate-O(18)	107 > 89	25623.285	25623.285	bb			0.4432	88.64	-11.36	5573.5...	

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 06-JAN-10

GEL Job No (SDG): 10-1101

GEL Sample ID: 1202006979

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	06-JAN-10 19:23	per0106036a
	Perchlorate Isotope Ratio						1	06-JAN-10 19:23	per0106036a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	06-JAN-10 19:23	per0106036a
	Perchlorate-O(18)			4.71	ug/kg		1	06-JAN-10 19:23	per0106036a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

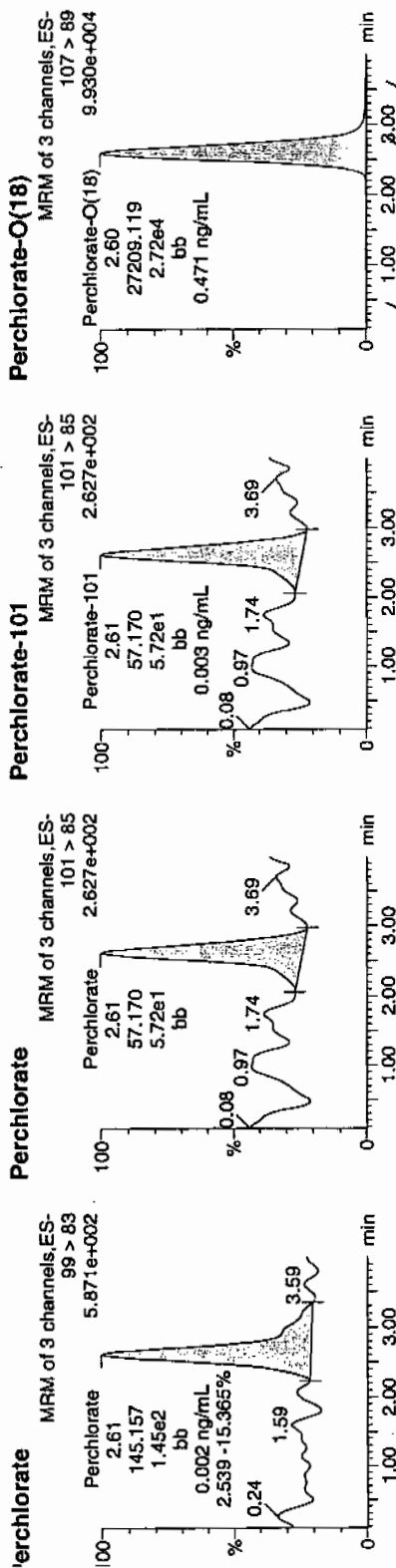
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106036a
Date: 06-Jan-2010
Time: 19:23:21
ID: 1202006979
Label: 2:1,A

WWS
01-07-10

LAU | 937822 | 3070 | MB | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
202006979	Perchlorate	99 > 83	2.61	145.157	bb			0.0022			44.217	2.54
202006979	Perchlorate-101	101 > 85	2.61	57.170	bb			0.0027			16.650	
202006979	Perchlorate-O(18)	107 > 89	2.60	27209.119	bb			0.4706	94.12	-5.88	7482.7	

Time 01/08/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 06-JAN-10

GEL Job No (SDG): 10-1101

GEL Sample ID: 1202006980

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.86	ug/kg	J	1	06-JAN-10 19:30	per0106037a
	Perchlorate Isotope Ratio			2.94			1	06-JAN-10 19:30	per0106037a
14797-73-0	Perchlorate-101	.5	2	1.94	ug/kg	J	1	06-JAN-10 19:30	per0106037a
	Perchlorate-O(18)			4.82	ug/kg		1	06-JAN-10 19:30	per0106037a

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

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.d

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106037a

Date: 06-Jan-2010

Time: 19:30:35

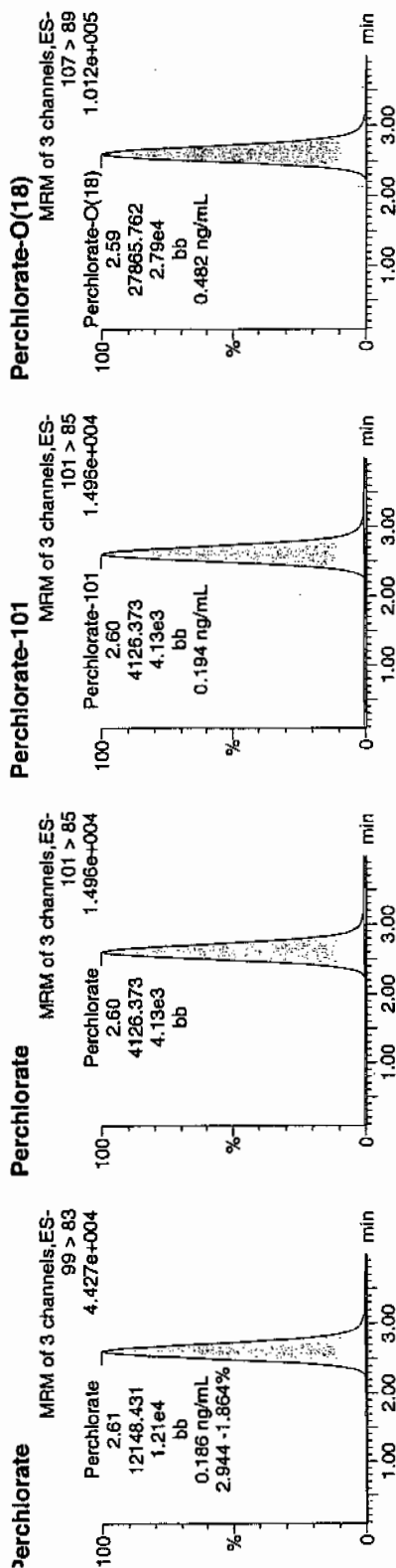
DI: 1202006980

File: 2:1,B

01-07-10

LAN 4 | 937832 | LC5 | 11

01-07-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202006980	Perchlorate	99 > 83	2.61	12148.431	12148.431	bb			0.1864	93.18	-6.82	1729.2...	2.94
1202006980	Perchlorate-101	101 > 85	2.60	4126.373	4126.373	bb			0.1937	96.87	-3.13	1322.9...	
1202006980	Perchlorate-O(18)	107 > 89	2.59	27865.762	27865.762	bb			0.4820	96.40	-3.60	10467....	

$$\frac{12148.431}{65186.4} = 0.1864$$

4/11/10 01/08/10

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: 937881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7841MS

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 1202006981

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.592	2.37	2.48	ug/kg		1	06-JAN-10 21:17	per0106052a
	Perchlorate Isotope Ratio			3.05			1	06-JAN-10 21:17	per0106052a
14797-73-0	Perchlorate-101	.592	2.37	2.49	ug/kg		1	06-JAN-10 21:17	per0106052a
	Perchlorate-O(18)			5.28	ug/kg		1	06-JAN-10 21:17	per0106052a

[^] 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\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106052a

Date: 06-Jan-2010

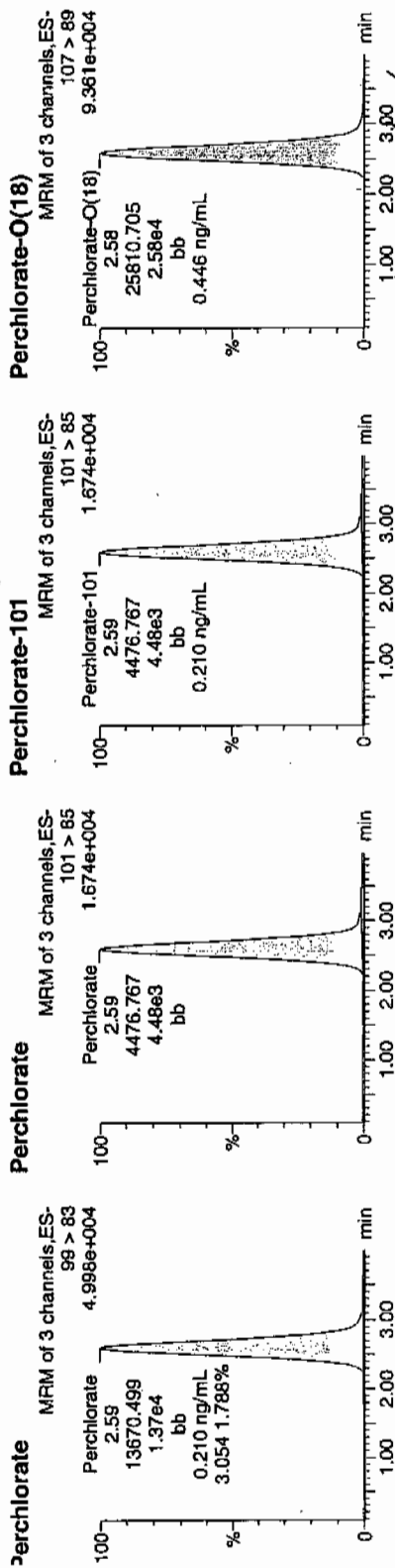
Time: 21:17:27

D: 1202006981

Vial: 2:3,B

www
01-07-10

LANL | 437382 | SUTD | MS | 11



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202006981	Perchlorate	99 > 83	2.59	13670.499	13670.499	bb			0.2097	104.86	4.86	1053.9...	3.05
1202006981	Perchlorate-101	101 > 85	2.59	4476.767	4476.767	bb			0.2102	105.09	5.09	1834.0...	
1202006981	Perchlorate-O(18)	107 > 89	2.58	25810.705	25810.705	bb			0.4464	89.29	-10.71	7182.1...	

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: 237881

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7841MSD

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101

GEL Sample ID: 1202006982

Date Filtered: 06-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.592	2.37	2.52	ug/kg		1	06-JAN-10 21:24	per0106053a
	Perchlorate Isotope Ratio			3.04			1	06-JAN-10 21:24	per0106053a
14797-73-0	Perchlorate-101	.592	2.37	2.54	ug/kg		1	06-JAN-10 21:24	per0106053a
	Perchlorate-O(18)			5.62	ug/kg		1	06-JAN-10 21:24	per0106053a

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

*Concentration =

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

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

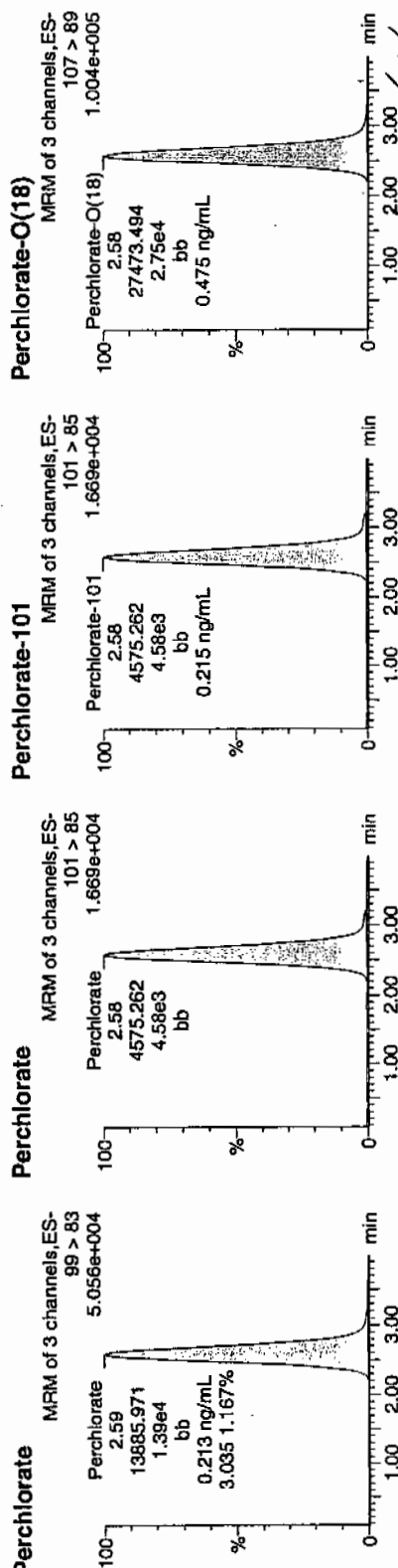
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Sample Name: per0106053a
Date: 06-Jan-2010
Time: 21:24:42
D: 1202006982
File: 2:3,C

6622
01-07-10

1202006982 | 437882 | 5020 | MSD | 11



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202006982	Perchlorate	99 > 83	2.58	13885.971	13885.971	bb			0.2130	108.51	6.51	2685.0...	3.04
1202006982	Perchlorate-101	101 > 85	2.58	4575.262	4575.262	bb			0.2148	107.41	7.41	2916.1...	
1202006982	Perchlorate-O(18)	107 > 89	2.58	27473.494	27473.494	bb			0.4752	95.04	-4.96	10911...	

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: 937881 Verified by: _____
 Analyst: Lynne Russell Lab SOP: GL-OA-E-067 REV# 6
 Method: SW846 6850 Modified Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202006979 MB	06-JAN-2010 14:08:49	2	20	10
1202006980 LCS	06-JAN-2010 14:08:49	2	20	10
243623001	06-JAN-2010 14:08:49	2	20	10
243623002	06-JAN-2010 14:08:49	2	20	10
243623003	06-JAN-2010 14:08:49	2	20	10
243623004	06-JAN-2010 14:08:49	2	20	10
243623005	06-JAN-2010 14:08:49	2	20	10
243623006	06-JAN-2010 14:08:49	2	20	10
243623007	06-JAN-2010 14:08:49	2	20	10
243623008	06-JAN-2010 14:08:49	2	20	10
243623009	06-JAN-2010 14:08:49	2	20	10
243626001	06-JAN-2010 14:08:49	2	20	10
1202006981 MS (243626001)	06-JAN-2010 14:08:49	2	20	10
1202006982 MSD (243626001)	06-JAN-2010 14:08:49	2	20	10
243626002	06-JAN-2010 14:08:49	2	20	10
243626003	06-JAN-2010 14:08:49	2	20	10
243626004	06-JAN-2010 14:08:49	2	20	10
243626005	06-JAN-2010 14:08:49	2	20	10
243626006	06-JAN-2010 14:08:49	2	20	10
243626007	06-JAN-2010 14:08:49	2	20	10
243626008	06-JAN-2010 14:08:49	2	20	10
243626009	06-JAN-2010 14:08:49	2	20	10
243626010	06-JAN-2010 14:08:49	2	20	10
243626011	06-JAN-2010 14:08:49	2	20	10
1202006983 LCS	06-JAN-2010 14:08:49	2	20	10

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202006983	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.4	mL
LCS	1202006980	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.4	mL
MS	1202006981	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.4	mL
MSD	1202006982	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.4	mL

De-salting cartridges used: 090403-1-Ba and 091029-1-H.

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCM SMS#2

Date: 01/06/10
 Extr. Injection Volume: 20ul
 Sequence Number: per010610a
 Initial Calibration Date: 01/06/10

Method: EPA 6850-Modified
 Int. Std.: UCL091019-03.2
 Mobile Phase Lot#: 1233781, 1233976
 Standard-Samp Reagent Lot#: 1233976

Reviewed By: *hml*
 Date: *01/08/09*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100104-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0106001a	IPB001	CWW	1/6/2010 15:16			1		USE	B
per0106002a	IPB001	CWW	1/6/2010 15:23			1		USE	B
per0106003a	WCLICAL-01	CWW	1/6/2010 15:30			1		USE	I
per0106004a	WCLICAL-02	CWW	1/6/2010 15:37			1		USE	I
per0106005a	WCLICAL-03	CWW	1/6/2010 15:44			1		USE	I
per0106006a	WCLICAL-04	CWW	1/6/2010 15:52			1		USE	I
per0106007a	WCLICAL-05	CWW	1/6/2010 15:59			1		USE	I
per0106008a	IPB002	CWW	1/6/2010 16:06			1		USE	B
per0106009a	WCLICV	CWW	1/6/2010 16:13			1		USE	C
per0106010a	IPB003	CWW	1/6/2010 16:20			1		USE	B
per0106011a	WCLCRI	CWW	1/6/2010 16:27			1		USE	C
per0106012a	1202006989	CWW	1/6/2010 16:34	937888	VARIOUS	1	LANL	USE	S
per0106013a	1202006990	CWW	1/6/2010 16:41	937888	VARIOUS	1	LANL	USE	S
per0106014a	1202006993	CWW	1/6/2010 16:48	937888	VARIOUS	1	LANL	USE	S
per0106015a	243608001	CWW	1/6/2010 16:55	937888	10-1094	1	LANL	USE	S
per0106016a	243621001	CWW	1/6/2010 17:02	937888	10-1099	1	LANL	USE	S
per0106017a	243627001	CWW	1/6/2010 17:09	937888	10-1101-1	1	LANL	USE	S
per0106018a	243629001	CWW	1/6/2010 17:16	937888	10-1103-1	1	LANL	USE	S
per0106019a	243631001	CWW	1/6/2010 17:23	937888	10-1104	1	LANL	USE	S
per0106020a	WCLCCV	CWW	1/6/2010 17:30			1		USE	C
per0106021a	IPB004	CWW	1/6/2010 17:37			1		USE	B
per0106022a	WCLCRI	CWW	1/6/2010 17:44			1		USE	C
per0106023a	243632001	CWW	1/6/2010 17:51	937888	10-1105	1	LANL	USE	S
per0106024a	1202006991	CWW	1/6/2010 17:58	937888	10-1105	1	LANL	USE	S
per0106025a	1202006992	CWW	1/6/2010 18:05	937888	10-1105	1	LANL	USE	S
per0106026a	IPB005	CWW	1/6/2010 18:12			1		USE	B
per0106027a	1202009604	CWW	1/6/2010 18:19	939084	10-1116	1	LANL	USE	S
per0106028a	1202009605	CWW	1/6/2010 18:27	939084	10-1116	1	LANL	USE	S
per0106029a	1202009608	CWW	1/6/2010 18:34	939084	10-1116	1	LANL	USE	S

per0106030a	243819001	CWW	1/6/2010 18:41	939084	10-1116	1	LANL	USE	S
per0106031a	1202009606	CWW	1/6/2010 18:48	939084	10-1116	1	LANL	USE	S
per0106032a	1202009607	CWW	1/6/2010 18:55	939084	10-1116	1	LANL	USE	S
per0106033a	WCLCCV	CWW	1/6/2010 19:02			1		USE	C
per0106034a	IPB006	CWW	1/6/2010 19:09			1		USE	B
per0106035a	WCLCRI	CWW	1/6/2010 19:16			1		USE	C
per0106036a	1202006979	CWW	1/6/2010 19:23	937882	VARIOUS	1	LANL	USE	S
per0106037a	1202006980	CWW	1/6/2010 19:30	937882	VARIOUS	1	LANL	USE	S
per0106038a	1202006983	CWW	1/6/2010 19:37	937882	VARIOUS	1	LANL	USE	S
per0106039a	243623001	CWW	1/6/2010 19:44	937882	10-1099-1	1	LANL	USE	S
per0106040a	243623002	CWW	1/6/2010 19:51	937882	10-1099-1	1	LANL	USE	S
per0106041a	243623003	CWW	1/6/2010 19:58	937882	10-1099-1	1	LANL	USE	S
per0106042a	243623004	CWW	1/6/2010 20:05	937882	10-1099-1	1	LANL	USE	S
per0106043a	243623005	CWW	1/6/2010 20:12	937882	10-1099-1	1	LANL	USE	S
per0106044a	243623006	CWW	1/6/2010 20:19	937882	10-1099-1	1	LANL	USE	S
per0106045a	WCLCCV	CWW	1/6/2010 20:26			1		USE	C
per0106046a	IPB007	CWW	1/6/2010 20:34			1		USE	B
per0106047a	WCLCRI	CWW	1/6/2010 20:41			1		USE	C
per0106048a	243623007	CWW	1/6/2010 20:48	937882	10-1099-1	1	LANL	USE	S
per0106049a	243623008	CWW	1/6/2010 20:55	937882	10-1099-1	1	LANL	USE	S
per0106050a	243623009	CWW	1/6/2010 21:02	937882	10-1099-1	1	LANL	USE	S
per0106051a	243626001	CWW	1/6/2010 21:09	937882	10-1101	1	LANL	USE	S
per0106052a	1202006981	CWW	1/6/2010 21:17	937882	10-1101	1	LANL	USE	S
per0106053a	1202006982	CWW	1/6/2010 21:24	937882	10-1101	1	LANL	USE	S
per0106054a	243626002	CWW	1/6/2010 21:31	937882	10-1101	1	LANL	USE	S
per0106055a	243626003	CWW	1/6/2010 21:38	937882	10-1101	1	LANL	USE	S
per0106056a	WCLCCV	CWW	1/6/2010 21:45			1		USE	C
per0106057a	IPB008	CWW	1/6/2010 21:53			1		USE	B
per0106058a	WCLCRI	CWW	1/6/2010 22:00			1		USE	C
per0106059a	243626004	CWW	1/6/2010 22:07	937882	10-1101	1	LANL	USE	S
per0106060a	243626005	CWW	1/6/2010 22:14	937882	10-1101	1	LANL	USE	S
per0106061a	243626006	CWW	1/6/2010 22:21	937882	10-1101	1	LANL	USE	S
per0106062a	243626007	CWW	1/6/2010 22:28	937882	10-1101	1	LANL	USE	S
per0106063a	243626008	CWW	1/6/2010 22:35	937882	10-1101	1	LANL	USE	S
per0106064a	243626009	CWW	1/6/2010 22:42	937882	10-1101	1	LANL	USE	S
per0106065a	243626010	CWW	1/6/2010 22:49	937882	10-1101	1	LANL	USE	S
per0106066a	243626011	CWW	1/6/2010 22:56	937882	10-1101	1	LANL	USE	S

C B C

USE
USE
USE

1
1
1

1/6/2010 23:03
1/6/2010 23:11
1/6/2010 23:18

CWW
CWW
CWW

WCLCCV
IPB009
WCLCRI

per0106067a
per0106068a
per0106069a

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1101-1**

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: 937888

Prep Batch Number: 937887

Sample Analysis

Sample ID	Client ID
243627001	RE12-10-7860
1202006993	Interference Check Sample (ICS)
1202006989	Method Blank (MB)
1202006990	Laboratory Control Sample (LCS)
1202006991	243632001(RE12-10-7610) Matrix Spike (MS)
1202006992	243632001(RE12-10-7610) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

10-1101-1-PERLCMS

Page 1 of 4

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

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

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 243632001 (RE12-10-7610) from SDG 10-1105 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 reports (DER) was not generated for this SDG.

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Hebert M. Mauer Date: 01/15/10

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846.6850 Modified

Matrix: WATER

Extraction Batch ID: 937887

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE12-10-7860

Date Received: 29-DEC-09

GEL Job No (SDG): 10-1101-1

GEL Sample ID: 243627001

Date Filtered: 05-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate Isotope Ratio						1	06-JAN-10 17:09	per0106017a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate-O(18)			0.472	ug/L		1	06-JAN-10 17:09	per0106017a

[^] 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): 10-1101-1

Extract Batch Code: 937887

Date Filtered: 05-JAN-10

Matrix: WATER

Sample ID: 1202006990

Analyte ^a	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.195	ug/L	97.6		85 - 115
Perchlorate Isotope Ratio		3.08				-
Perchlorate-101	0.200	.194	ug/L	96.9		85 - 115
Perchlorate-O(18)		.486	ug/L			-

^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.

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-1101-1

Extract Batch Code: 937887 Date Filtered: 05-JAN-10

Matrix: WATER Sample ID: 1202006993

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.193	ug/L	96.3		70 - 130
Perchlorate Isotope Ratio		2.83				
Perchlorate-101	0.200	.208	ug/L	104		70 - 130
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.

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
 Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

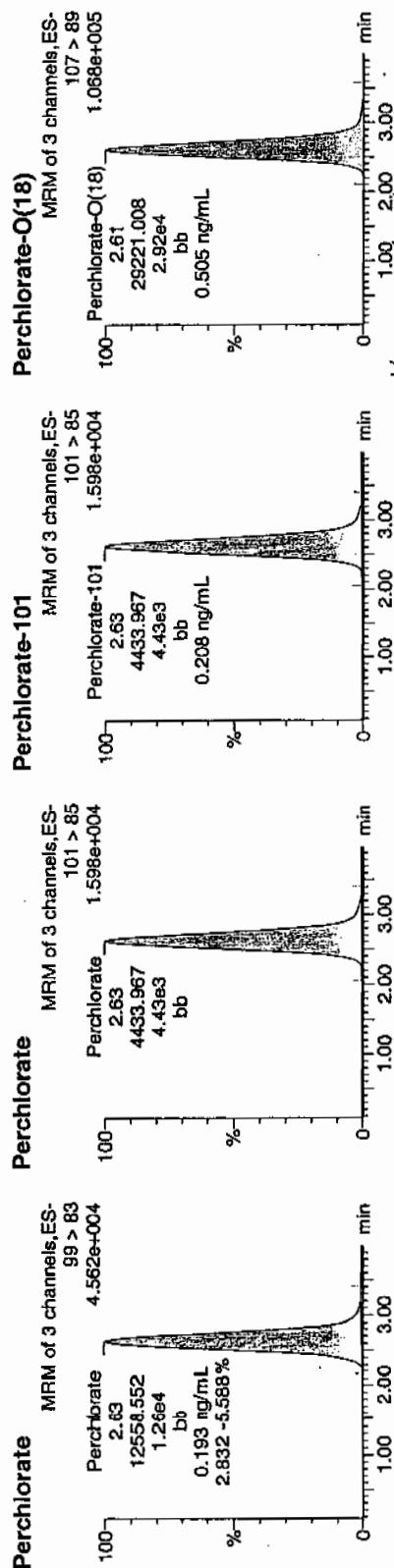
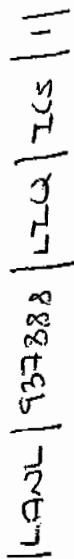
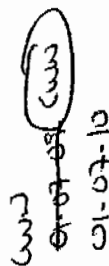
Name: per0106014a

Date: 06-Jan-2010

Time: 16:48:29

ID: 1202006993

Vial: 1:3,C



ID	Name	Trace	RT	Area	Response	Flags	ModTime	mg/mL	Rec'd	Dev	S/N	Ratio
1202006993	Perchlorate	99 > 83	2.63	12558.552	12558.552	bb		0.1927	96.33	-3.67	1817.4...	2.83
1202006993	Perchlorate-101	101 > 85	2.63	4433.967	4433.967	bb		0.2082	104.09	4.09	1026.0...	
1202006993	Perchlorate-Q(18)	107 > 89	2.61	29221.008	29221.008	bb		0.5054	101.08	1.08	13226...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1101-1

Extract Batch Code: 937887

Date Extracted: 05-JAN-10

GEL MS/PS ID: 1202006991

Client ID: RE12-10-7610

GEL MSD/PSD ID: 1202006992

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	0.00139	ug/L	0.196	97.3		.194	96.2		1.16		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.08			2.92			0			-
Perchlorate-101	0.200	0.00	ug/L	0.195	97.4		.203	101		4.13		30	75 - 125
Perchlorate-O(18)	0	0.475	ug/L	0.475			.473			.302			-

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

Comments:

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-1101-1

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	0.00	0	NA	06-JAN-10	per0106001a	IPB001
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106001a	IPB001
Perchlorate	0.00	0	NA	06-JAN-10	per0106002a	IPB001
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106002a	IPB001

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

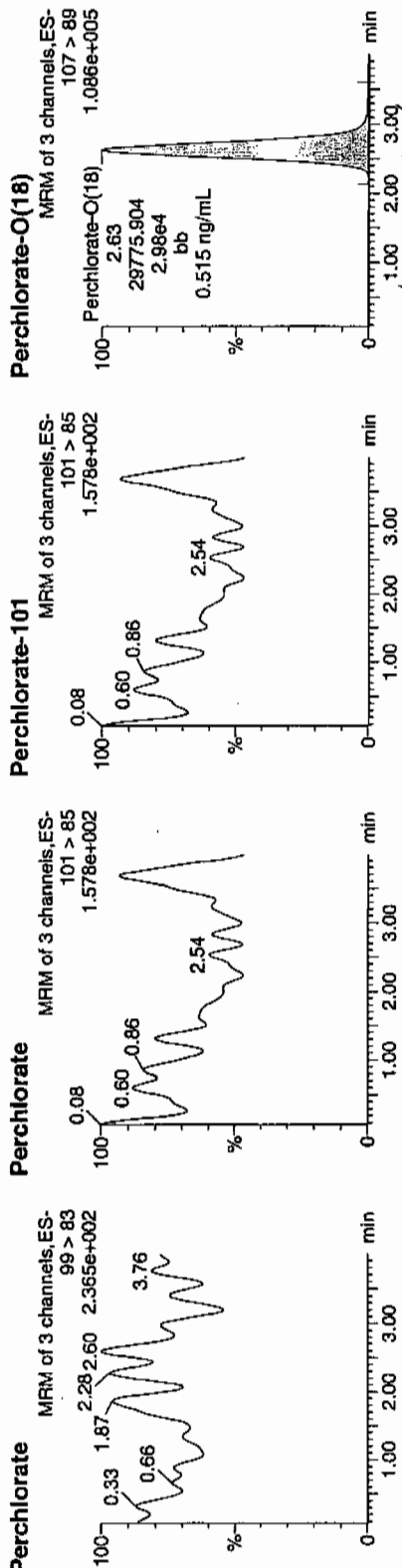
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per010610a.mdb 06 Jan 2010 15:03:34
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per010610a.cdb 07 Jan 2010 08:49:31

Name: per0106001a
Date: 06-Jan-2010
Time: 15:16:51
ID: IPB001
Vial: 1:1,A

01-07-10



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	2.63	29775.904	29775.904	bb			0.5150	103.00	✓	3.00	13367...

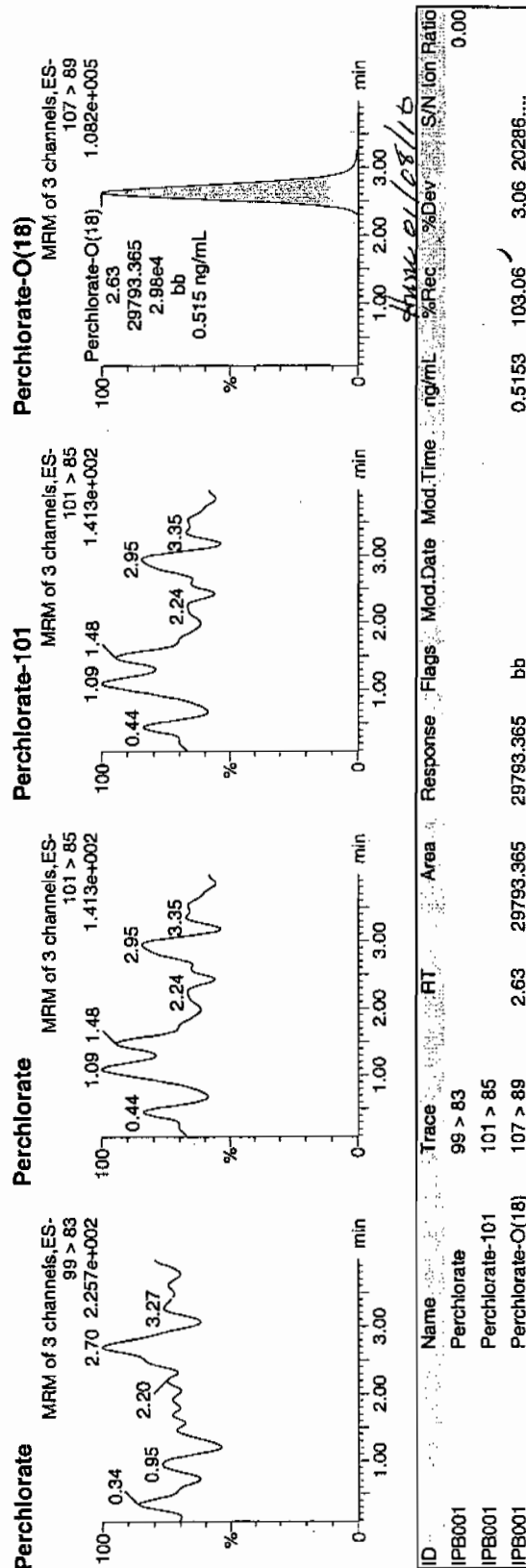
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106002a
Date: 06-Jan-2010
Time: 15:23:53
ID: IPB001
Vial: 1:1,A

CWJ
01-07-10



Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1101-1

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	0.00	0	NA	06-JAN-10	per0106008a	IPB002
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106008a	IPB002
Perchlorate	0.00	0	NA	06-JAN-10	per0106010a	IPB003
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106010a	IPB003
Perchlorate	0.00	0	NA	06-JAN-10	per0106021a	IPB004
Perchlorate-101	0.00	0	NA	06-JAN-10	per0106021a	IPB004

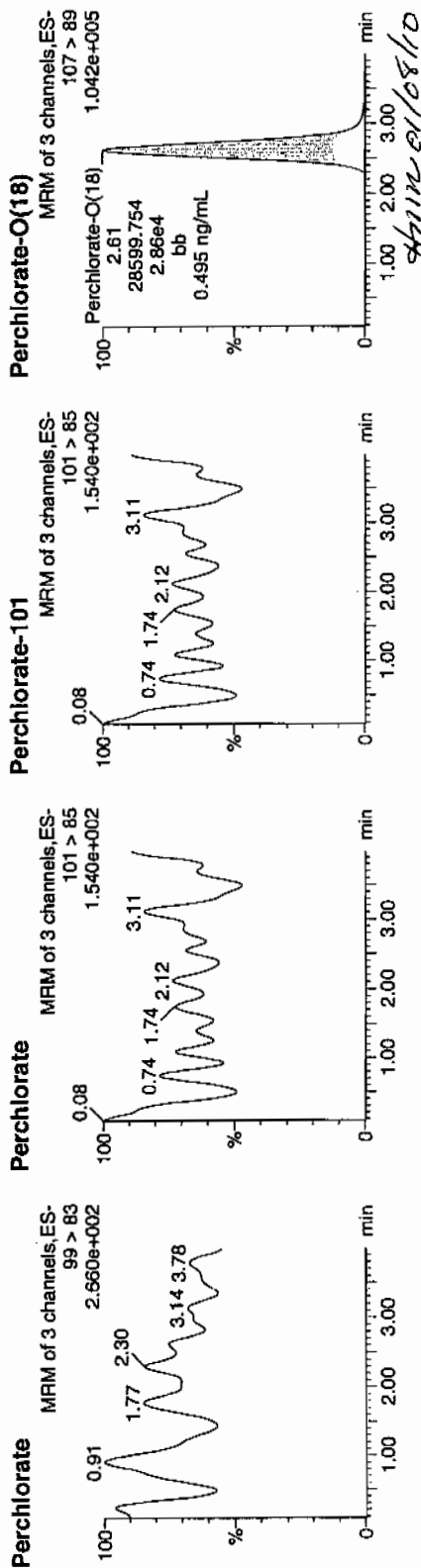
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106008a
Date: 06-Jan-2010
Time: 16:06:01
ID: IPB002
Vial: 1:1,A

CI-07.10



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	2.61	28599.754	28599.754	bb			0.4947	98.93	-1.07	2817.8...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106010a

Date: 06-Jan-2010

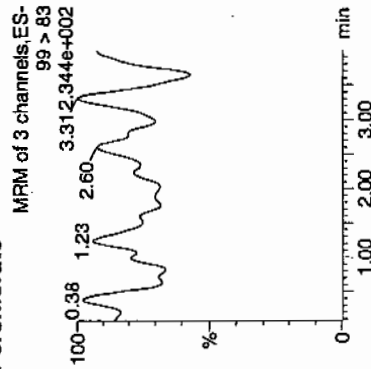
Time: 16:20:17

ID: IPB003

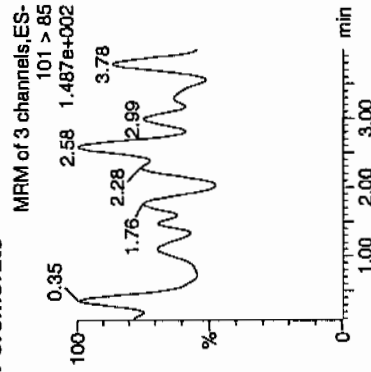
Vial: 1:1,A

01-07-10

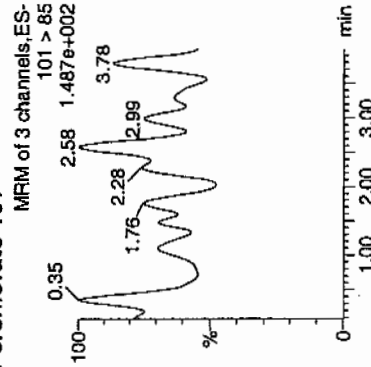
Perchlorate



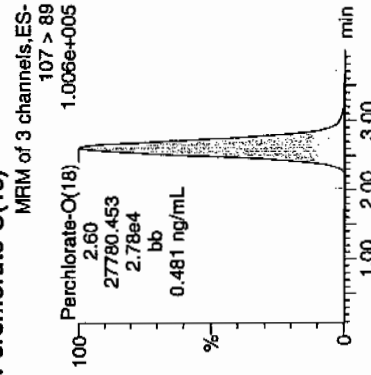
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.60	27780.453	27780.453	bb			0.4805	96.10	-3.90	9314.4...	

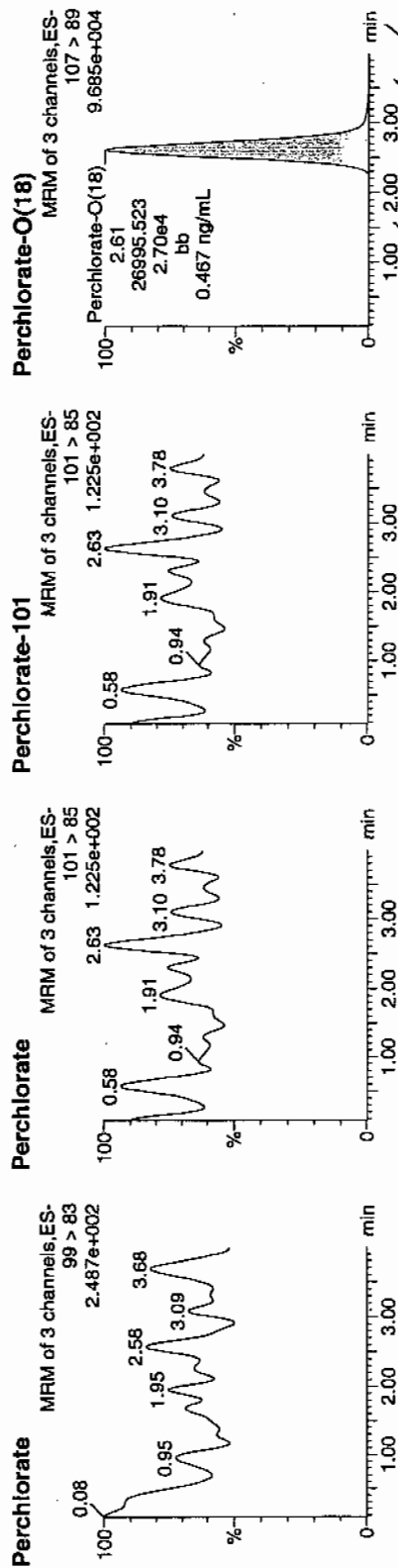
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106021a
Date: 06-Jan-2010
Time: 17:37:43
ID: IPB004
Vial: 1:1,A

01-31-10



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	2.61	26995.523	26995.523	bb			0.4669	93.38	-6.62	5820.6...	

Nairb.ref

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

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

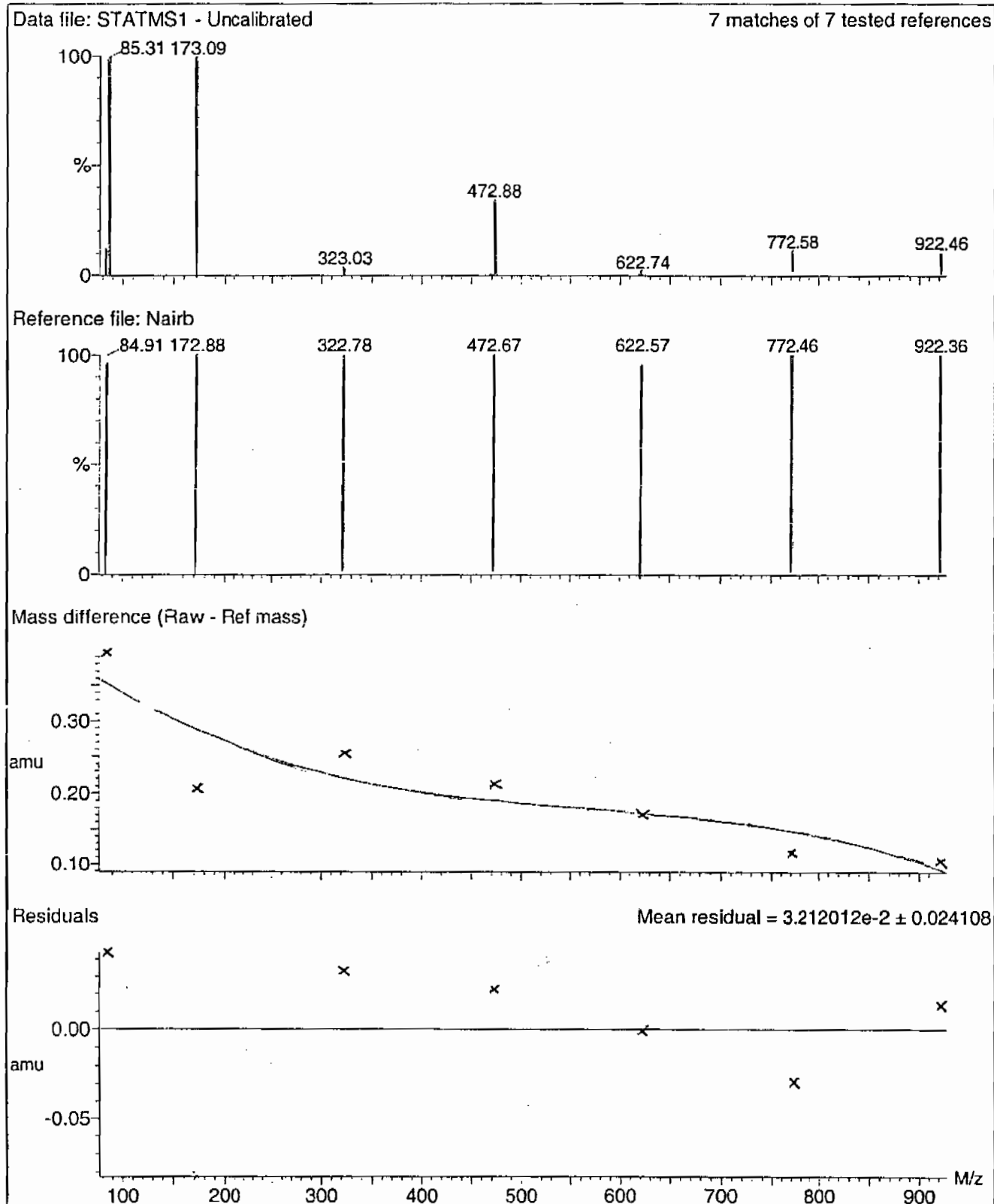
QUANTO ULTIMA: nairb 01.08.08.cal

Calibration Report - MS1 Static

Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

POINTS HIGHLIGHTED BY CURVED 01-08-08



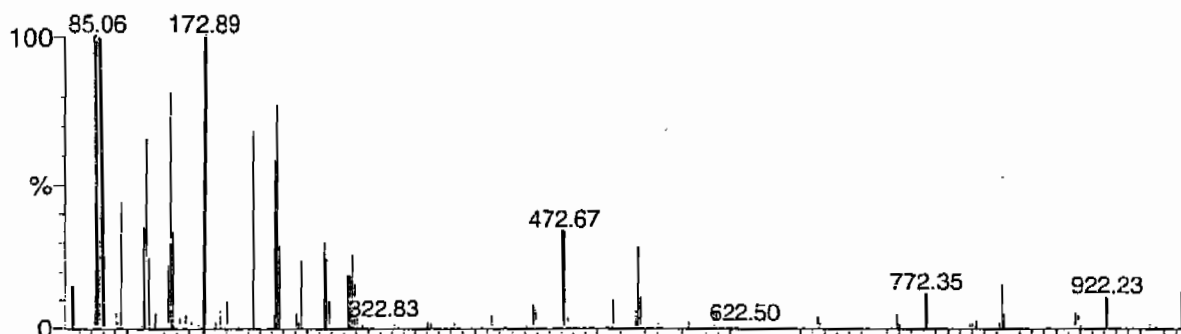
Calibration Report - MS1 Scanning

Page 1 of 1

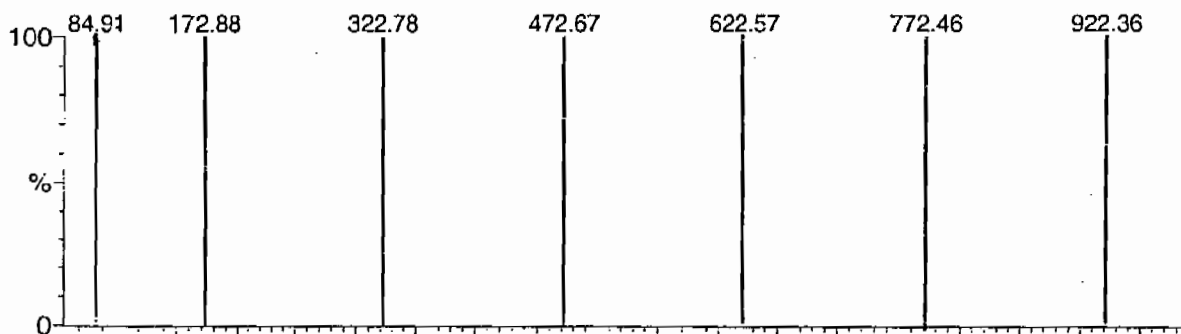
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

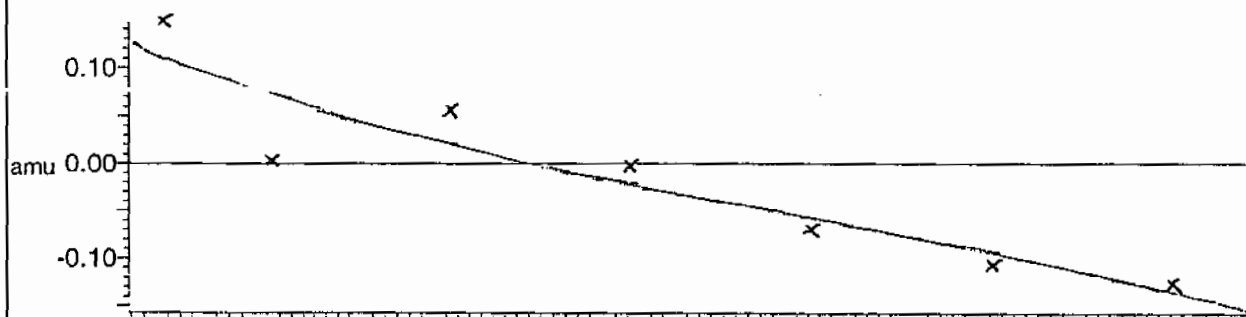
7 matches of 7 tested references



Reference file: Nairb

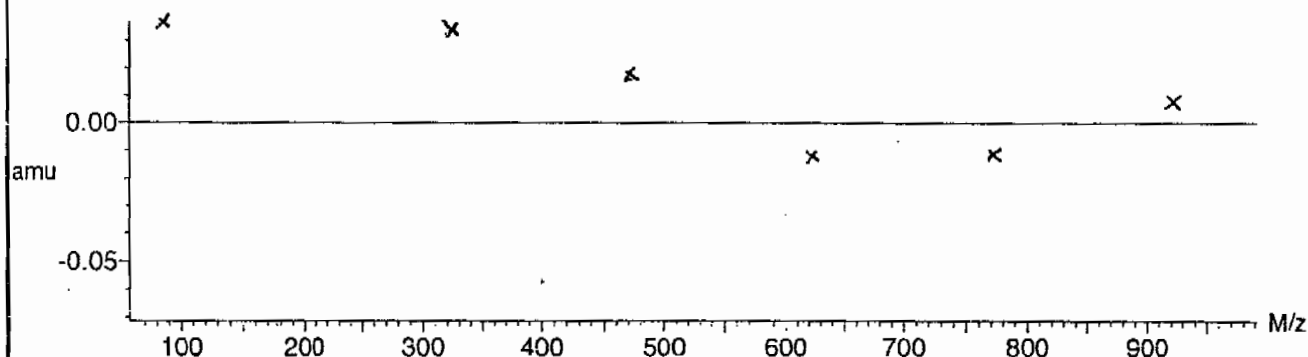


Mass difference (Raw - Ref mass)



Residuals

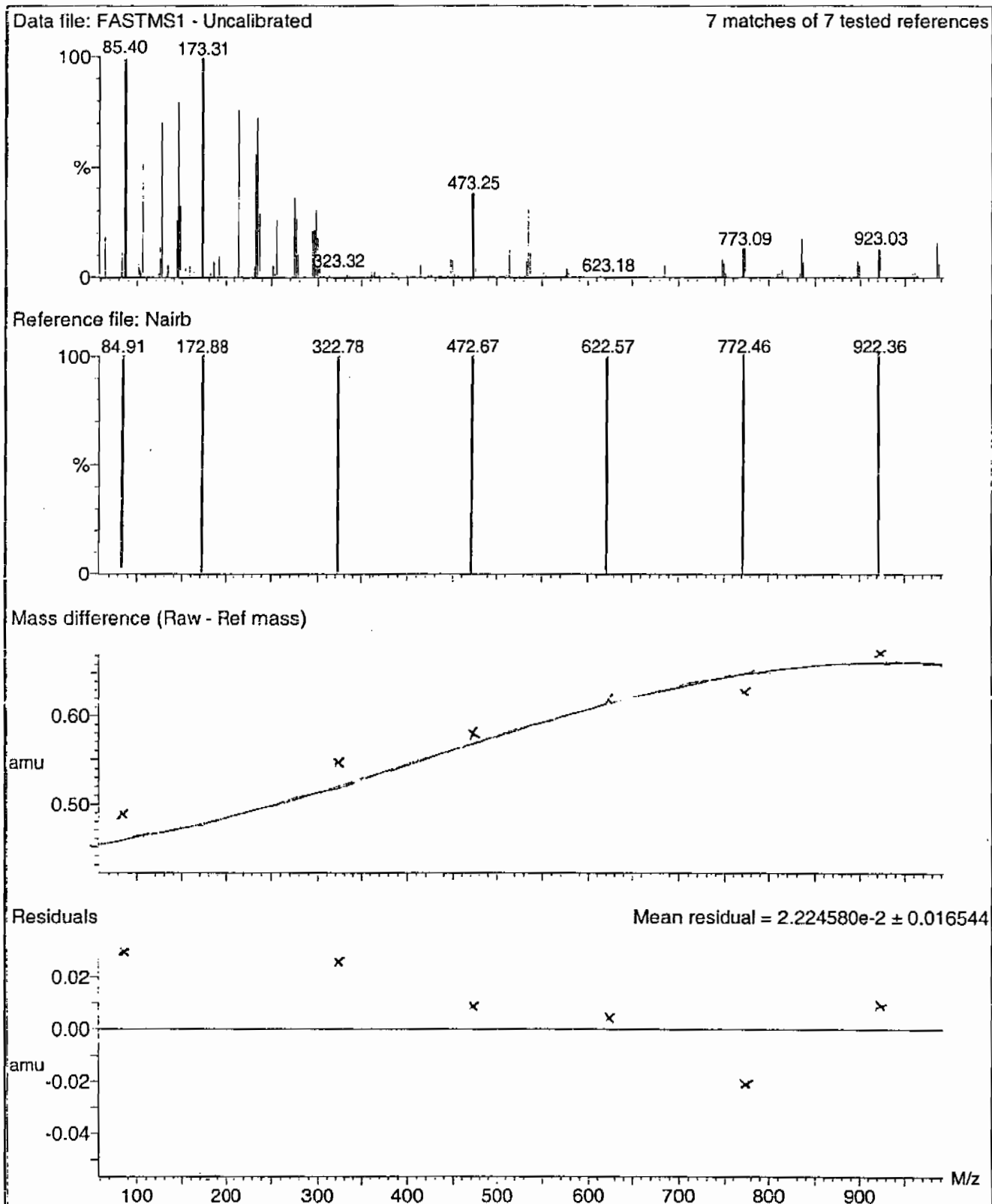
Mean residual = $2.732691 \times 10^{-2} \pm 0.020653$



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



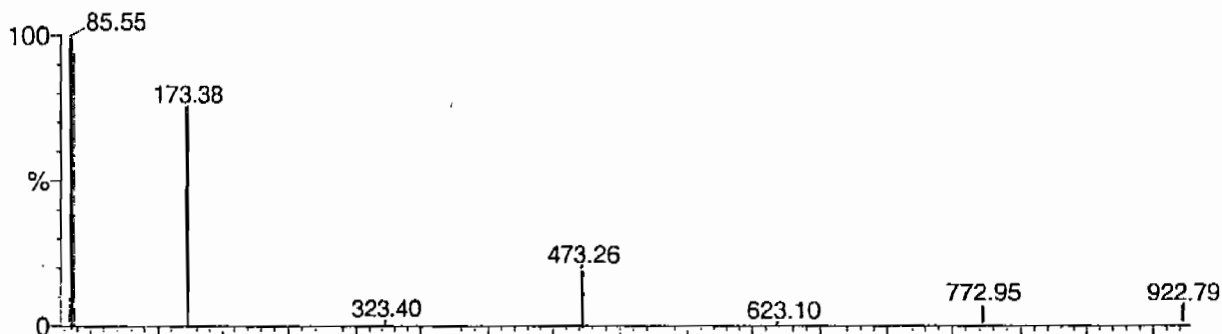
Calibration Report - MS2 Static

Page 1 of 1

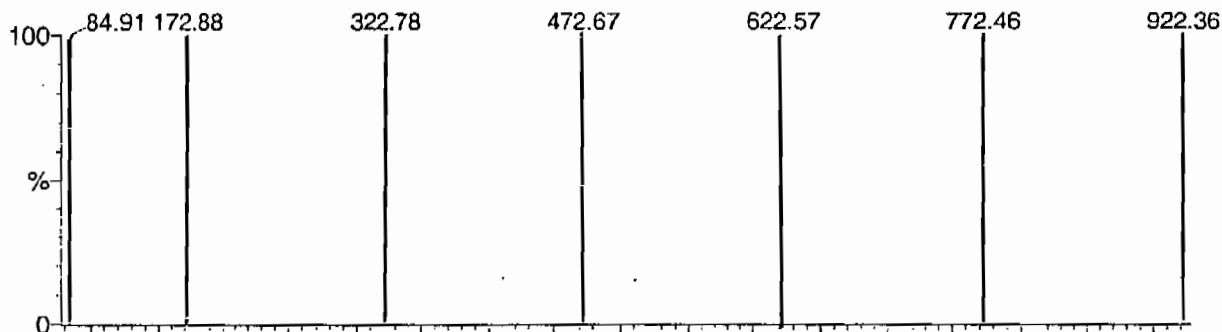
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

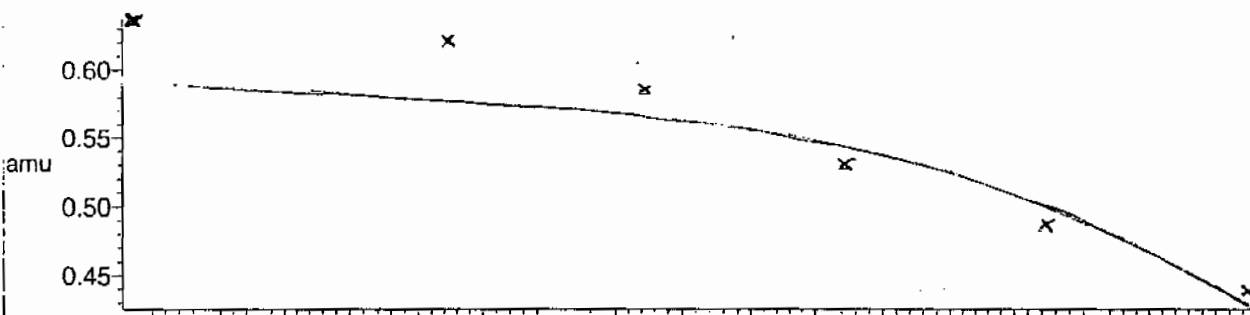
7 matches of 7 tested references



Reference file: Nairb

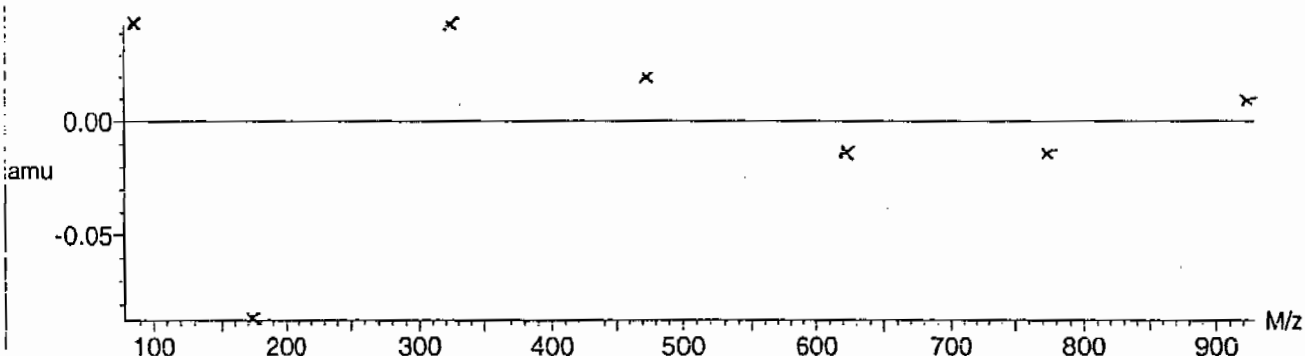


Mass difference (Raw - Ref mass)



Residuals

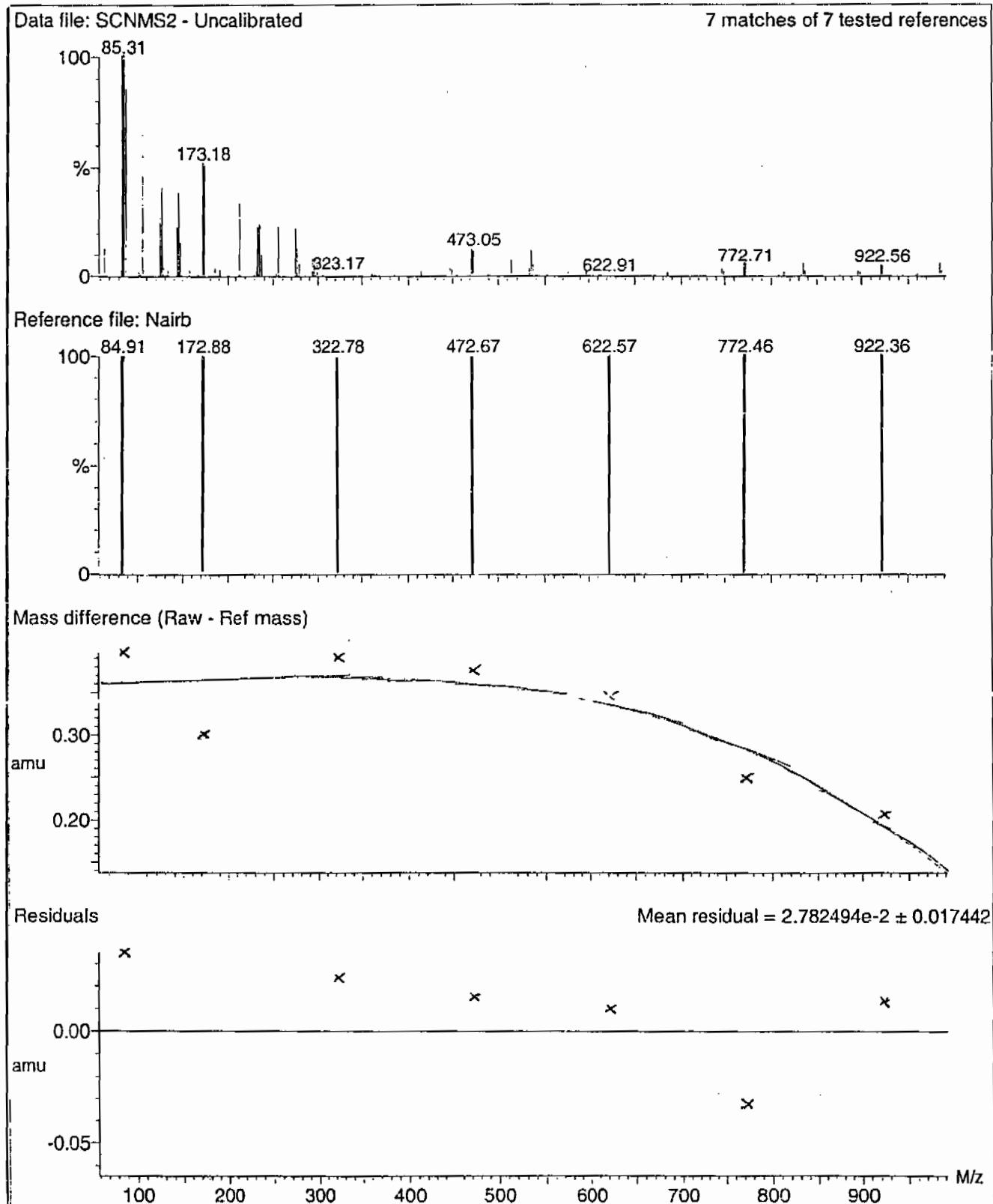
Mean residual = $3.295980 \times 10^{-2} \pm 0.025603$



Calibration Report - MS2 Scanning

Page 1 of 1

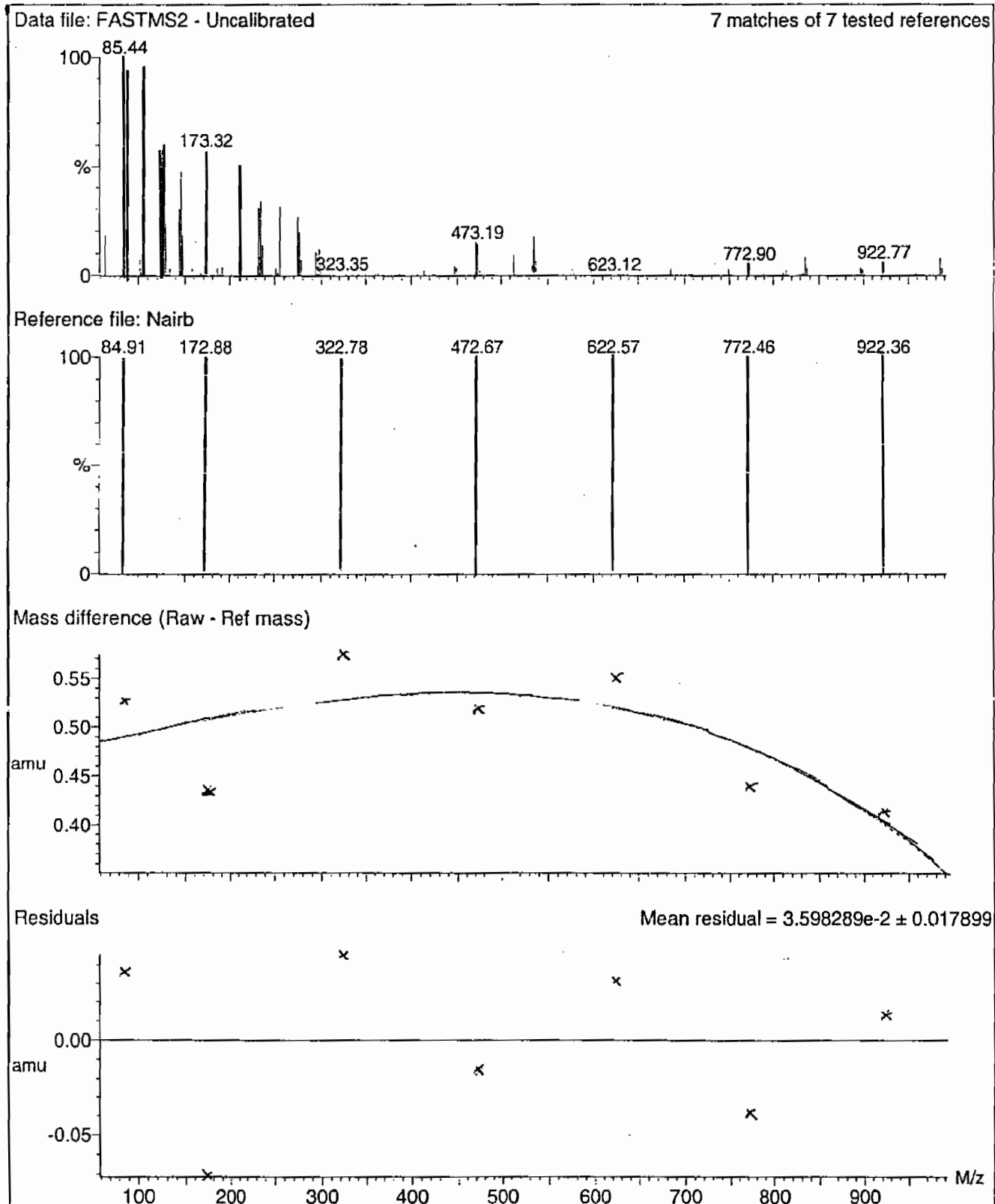
Printed: Tue Jan 08 12:22:56 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



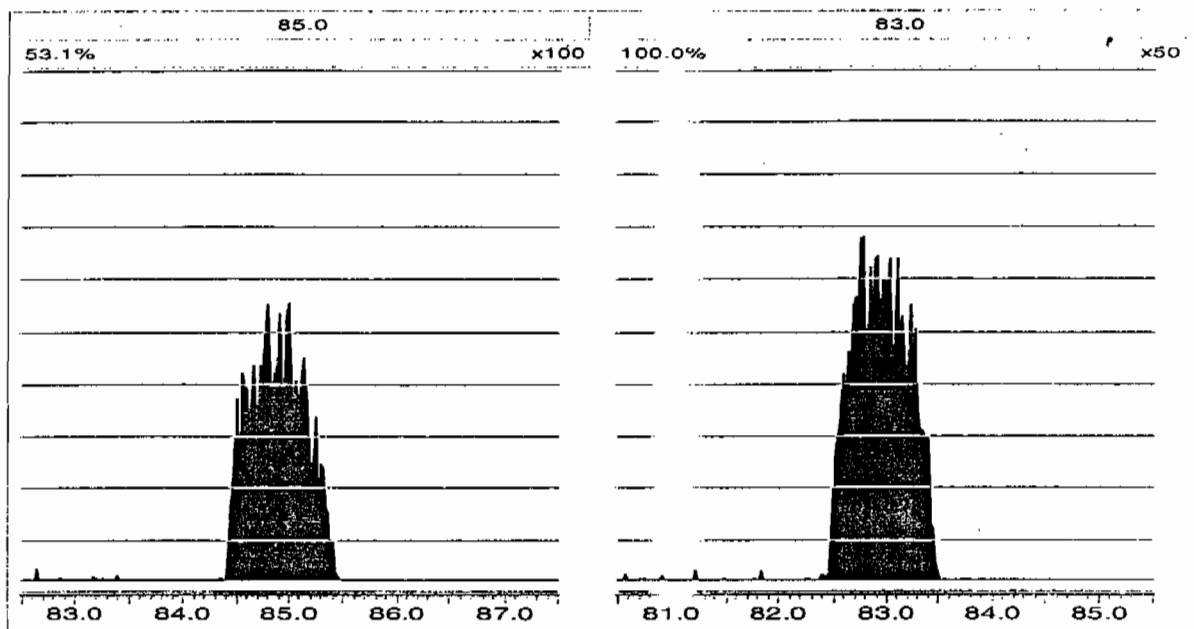
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, January 06, 2010 12:30:22 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1101-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0106006a	06-JAN-10	29150.6				
Lower Area Limit			14575.3				
Upper Area Limit			58301.2				
1202006989	per0106012a	06-JAN-10 16:34	27892.7	2.61	2.61333	1.001	
1202006990	per0106013a	06-JAN-10 16:41	28121.7	2.6	2.61328	1.005	
1202006993	per0106014a	06-JAN-10 16:48	29221	2.61	2.62568	1.006	
243627001	per0106017a	06-JAN-10 17:09	27290.8	2.61	2.58837	.992	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 237887
 Extraction Type: Filter/DAL
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE12-10-7860
 Date Received: 29-DEC-09
 GEL Job No (SDG): 10-1101-1
 GEL Sample ID: 243627001
 Date Filtered: 05-JAN-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate Isotope Ratio						1	06-JAN-10 17:09	per0106017a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	06-JAN-10 17:09	per0106017a
	Perchlorate-O(18)			0.472	ug/L		1	06-JAN-10 17:09	per0106017a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106017a

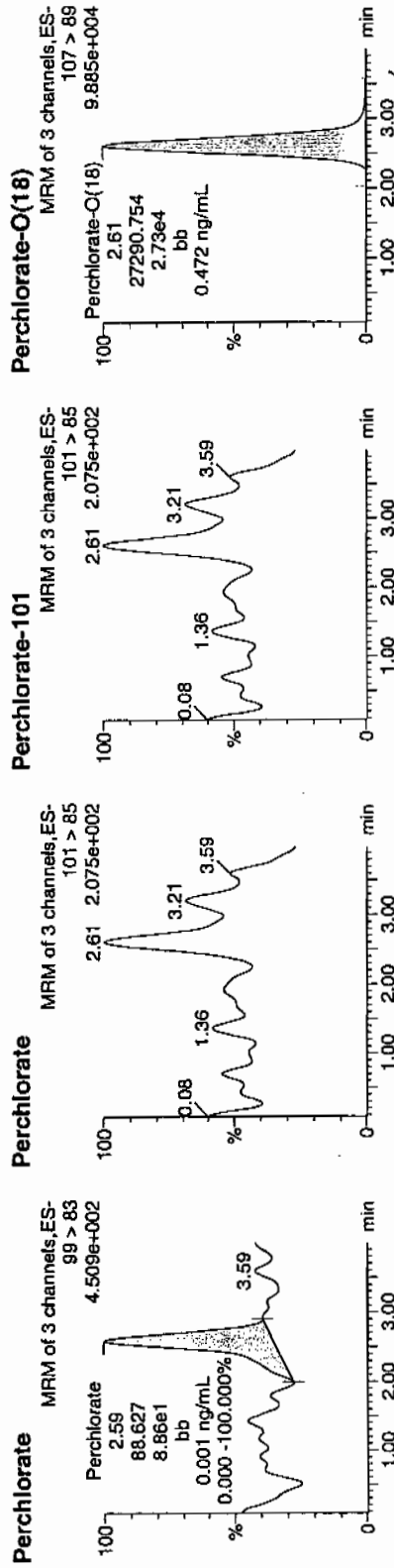
Date: 06-Jan-2010

Time: 17:09:34

ID: 243627001

Vial: 1:3,F

WJ
01-07-10
LAW | 937 888 | L2Q | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
243627001	Perchlorate	99 > 83	2.59	88.627	88.627	bb			0.0014	0.0014	24.537	24.537	0.00
243627001	Perchlorate-101	101 > 85											
243627001	Perchlorate-O(18)	107 > 89	2.61	27290.754	27290.754	bb			0.4720	94.41	-5.59	3807.7...	

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1101-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 06-JAN-10

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

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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 65186.4

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1101-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 06-JAN-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 21298.8

Response Type: External Standard

Curve Type: RF

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per010610a.mdb 06 Jan 2010 15:03:34
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per010610a.cdb 07 Jan 2010 08:49:31

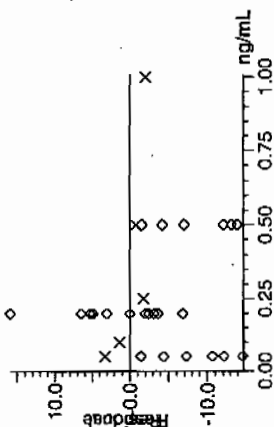
Compound name: Perchlorate

Response Factor: 65186.4

RRF SD: 1462.55, % Relative SD: 2.24364

Response type: External Std, Area

Curve type: RF



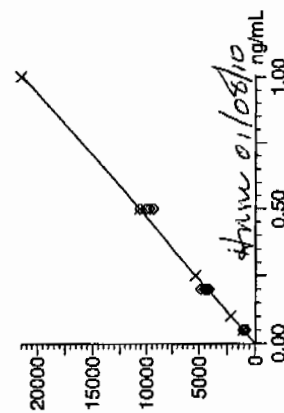
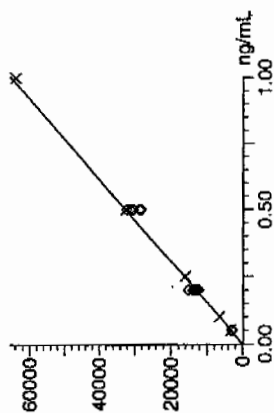
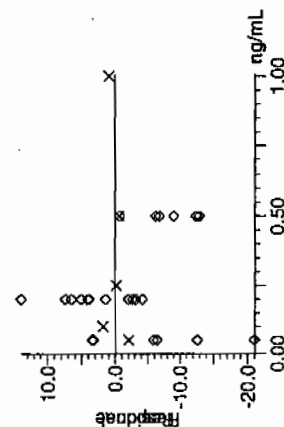
Compound name: Perchlorate-101

Response Factor: 21298.8

RRF SD: 311.518, % Relative SD: 1.46261

Response type: External Std, Area

Curve type: RF



Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time

Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

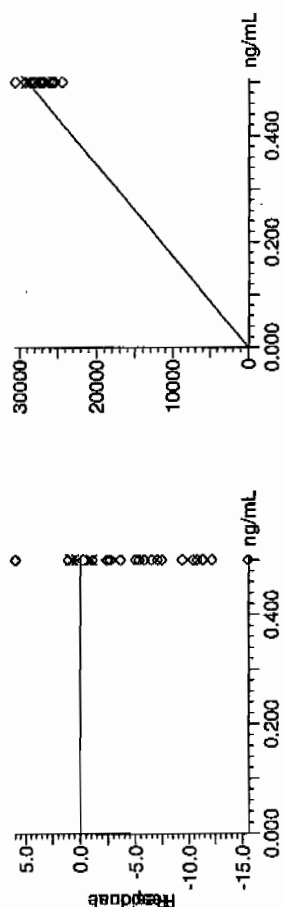
Compound name: Perchlorate-O(18)

Response Factor: 57815.7

RRF SD: 487.147, % Relative SD: 0.842587

Response type: External Std, Area

Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1101-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.44	06-JAN-10 16:13	per0106009a
Perchlorate Isotope Ratio		3.03		06-JAN-10 16:13	per0106009a
Perchlorate-101	.5	.5	99.33	06-JAN-10 16:13	per0106009a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106009a

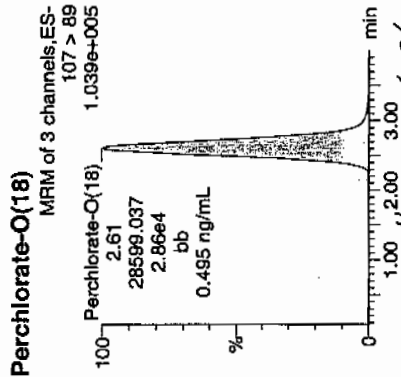
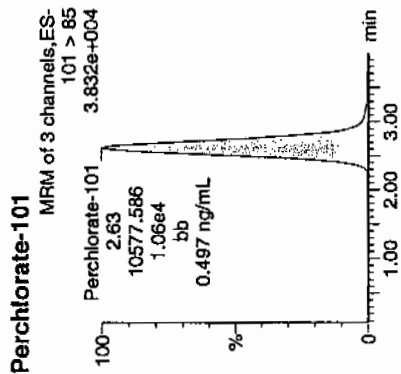
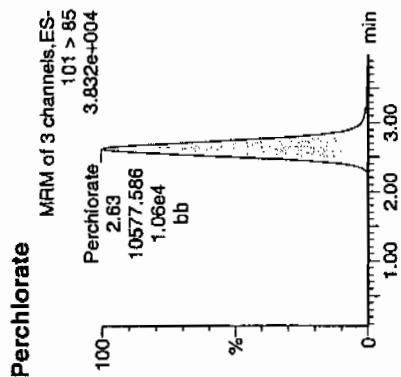
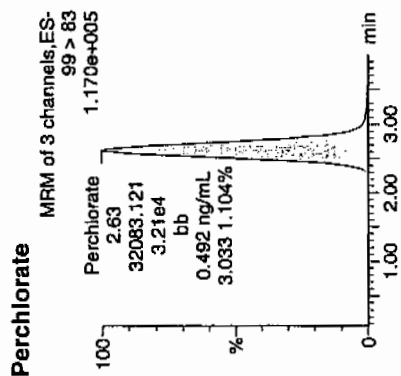
Date: 06-Jan-2010

Time: 16:13:04

ID: WCL100104-06ICV

Vial: 1:2,A

*Per
an
01-07-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100104-06ICV	Perchlorate	99 > 83	2.63	32083.121	32083.121	bb			0.4922	98.44	-1.56	5870.1...	3.03
WCL100104-06ICV	Perchlorate-101	101 > 85	2.63	10577.586	10577.586	bb			0.4966	99.33	-0.67	1002.3...	
WCL100104-06ICV	Perchlorate-O(18)	107 > 89	2.61	28599.037	28599.037	bb			0.4947	98.93	-1.07	5062.5...	

Form 3

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-1101-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

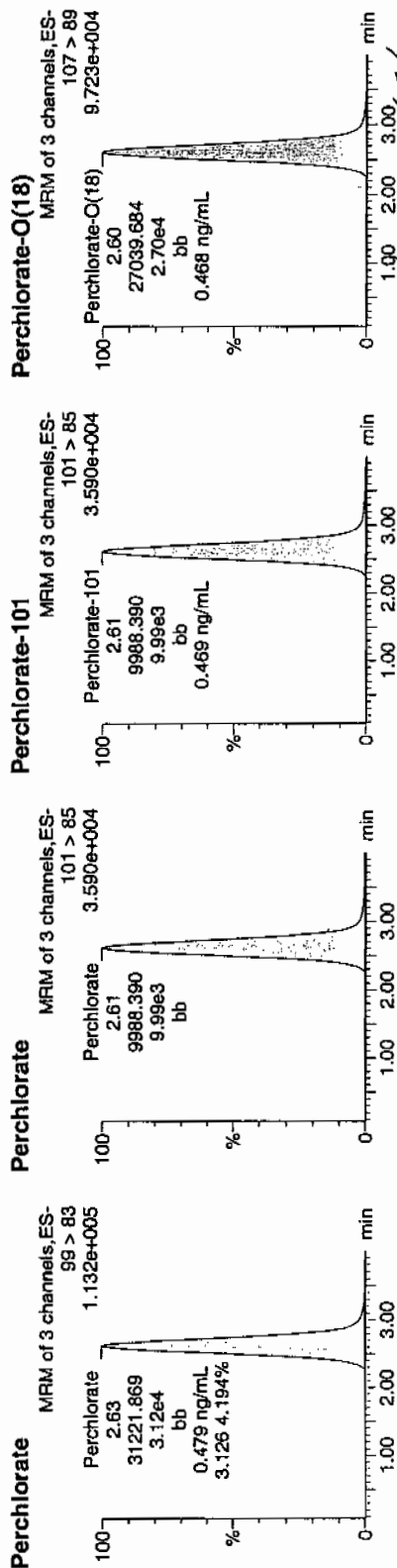
Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	95.79	06-JAN-10 17:30	per0106020a
Perchlorate Isotope Ratio		3.13		06-JAN-10 17:30	per0106020a
Perchlorate-101	.5	.47	93.79	06-JAN-10 17:30	per0106020a

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106020a
Date: 06-Jan-2010
Time: 17:30:41
ID: WCL100104-06CCV
Vial: 1:2,A

WCL
01-02-10
(WCL)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100104-06CCV	Perchlorate	99 > 83	2.63	31221.869	31221.869	bb			0.4790	95.79	-4.21	13705....	3.13
WCL100104-06CCV	Perchlorate-101	101 > 85	2.61	9988.390	9988.390	bb			0.4690	93.79	-6.21	5150.1...	
WCL100104-06CCV	Perchlorate-O(18)	107 > 89	2.60	27039.684	27039.684	bb			0.4677	93.54	-6.46	3564.5...	

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1101-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	98.55	06-JAN-10 16:27	per0106011a
Perchlorate Isotope Ratio		2.92		06-JAN-10 16:27	per0106011a
Perchlorate-101	.05	.05	103.27	06-JAN-10 16:27	per0106011a
Perchlorate	.05	.05	95.61	06-JAN-10 17:44	per0106022a
Perchlorate Isotope Ratio		3.11		06-JAN-10 17:44	per0106022a
Perchlorate-101	.05	.05	94.14	06-JAN-10 17:44	per0106022a

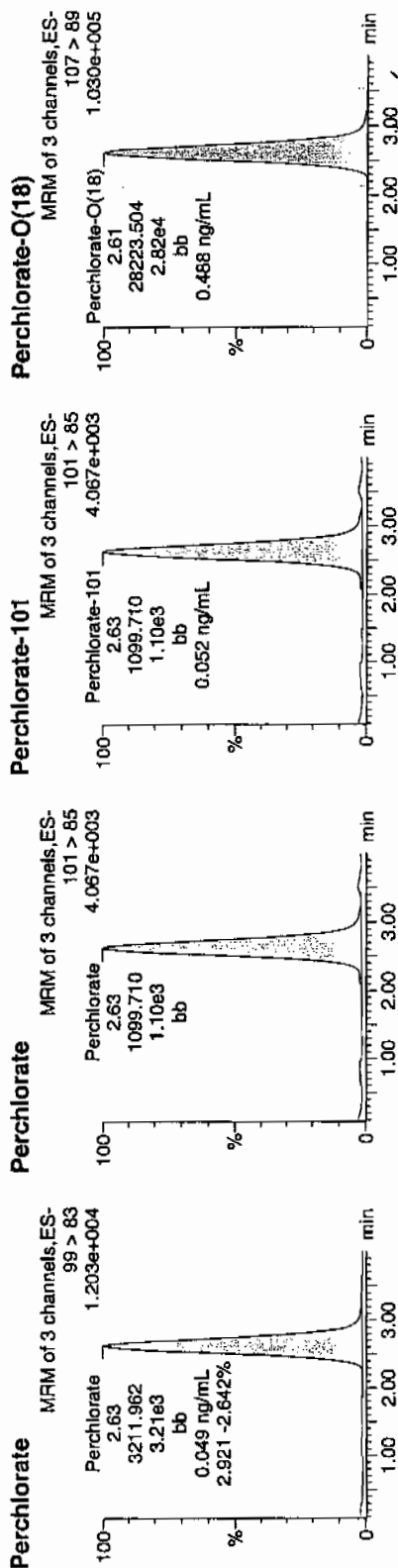
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106011a
Date: 06-Jan-2010
Time: 16:27:19
ID: WCL100104-07CRI
Vial: 1:2,B

623
01.07.10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100104-07CRI	Perchlorate	99 > 83	2.63	3211.962	3211.962	bb			0.0493	98.55	-1.45	604.902	2.92
WCL100104-07CRI	Perchlorate-101	101 > 85	2.63	1099.710	1099.710	bb			0.0516	103.27	3.27	335.294	
WCL100104-07CRI	Perchlorate-O(18)	107 > 89	2.61	28223.504	28223.504	bb			0.4882	97.63	-2.37	4006.4...	

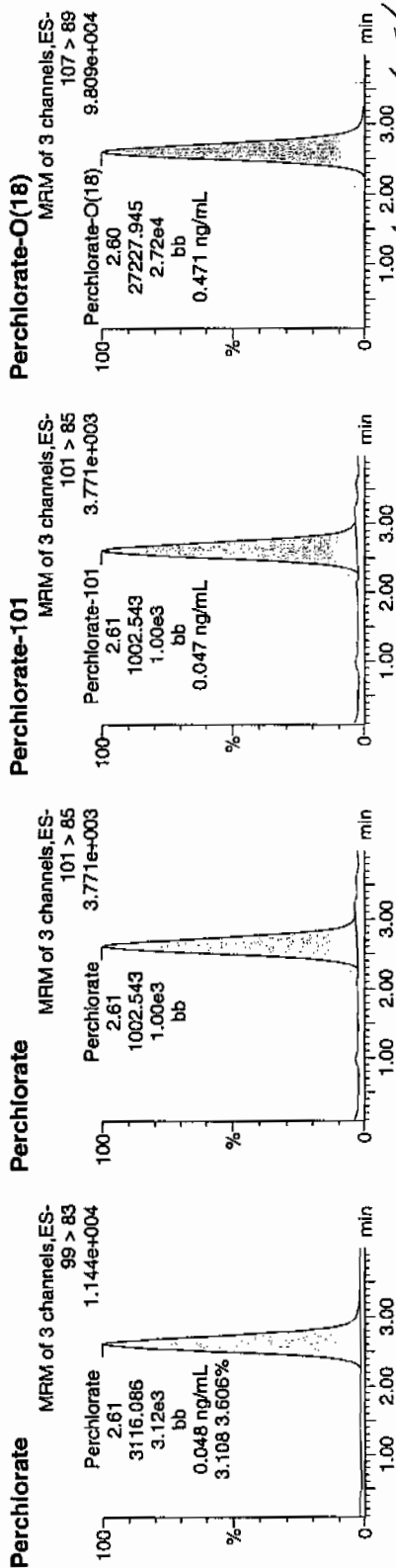
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106022a
Date: 06-Jan-2010
Time: 17:44:45
ID: WCL100104-07CRI
Vial: 1:2,B

Pass
WCL
01-07-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN:Ion Ratio
WCL100104-07CRI	Perchlorate	99 > 83	2.61	3116.086	3116.086	bb			0.0478	95.61	-4.39	252.584
WCL100104-07CRI	Perchlorate-101	101 > 85	2.61	1002.543	1002.543	bb			0.0471	94.14	-5.86	346.672
WCL100104-07CRI	Perchlorate-O(18)	107 > 89	2.60	27227.945	27227.945	bb			0.4709	94.19	-5.81	6823.2...

QUALITY CONTROL DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 237887

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

MB

Date Received: 05-JAN-10

GEL Job No (SDG): 10-1101-1

GEL Sample ID: 1202006989

Date Filtered: 05-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	06-JAN-10 16:34	per0106012a
	Perchlorate Isotope Ratio						1	06-JAN-10 16:34	per0106012a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	06-JAN-10 16:34	per0106012a
	Perchlorate-O(18)			0.482	ug/L		1	06-JAN-10 16:34	per0106012a

[^] 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\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106012a

Date: 06-Jan-2010

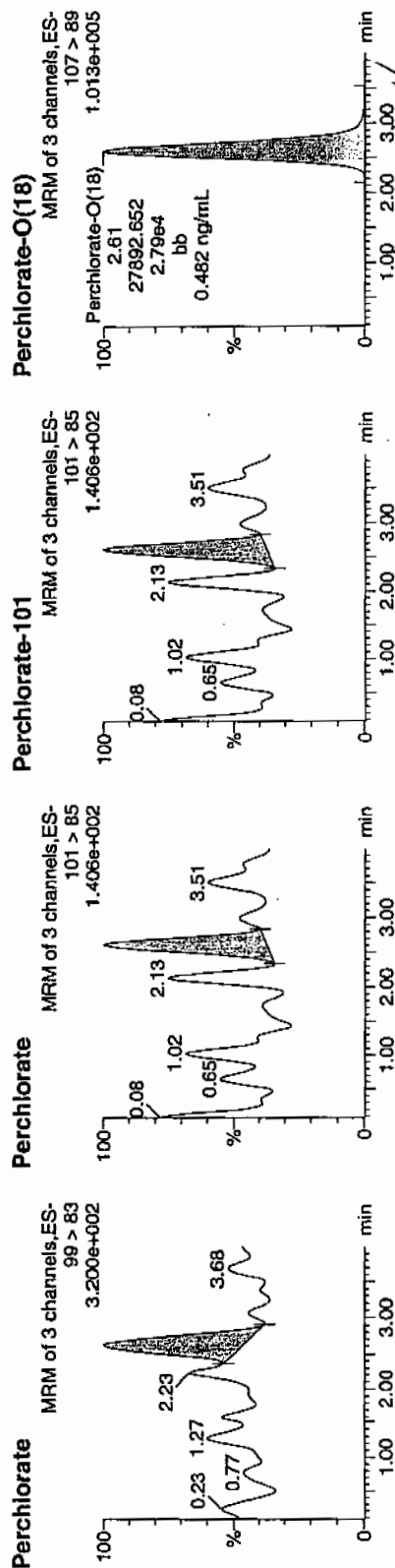
Time: 16:34:23

ID: 1202006989

Vial: 1:3.A

01-07-10

1202006989 | 1202006989 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	Dev	SIN	Ion	Ratio
1202006989	Perchlorate	99 > 83	2.61	45.302	45.302	bb					0.0007		6.398	2.25	
1202006989	Perchlorate-101	101 > 85	2.61	20.169	20.169	bb					0.0009		4.494		
1202006989	Perchlorate-O(18)	107 > 89	2.61	27892.652	27892.652	bb					0.4824		96.49	-3.51	1579.5...

OKAY
1202006989

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 937887

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 05-JAN-10

GEL Job No (SDG): 10-1101-1

GEL Sample ID: 1202006990

Date Filtered: 05-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.195	ug/L	J	1	06-JAN-10 16:41	per0106013a
	Perchlorate Isotope Ratio			3.08			1	06-JAN-10 16:41	per0106013a
14797-73-0	Perchlorate-101	.05	.2	0.194	ug/L	J	1	06-JAN-10 16:41	per0106013a
	Perchlorate-O(18)			0.486	ug/L		1	06-JAN-10 16:41	per0106013a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

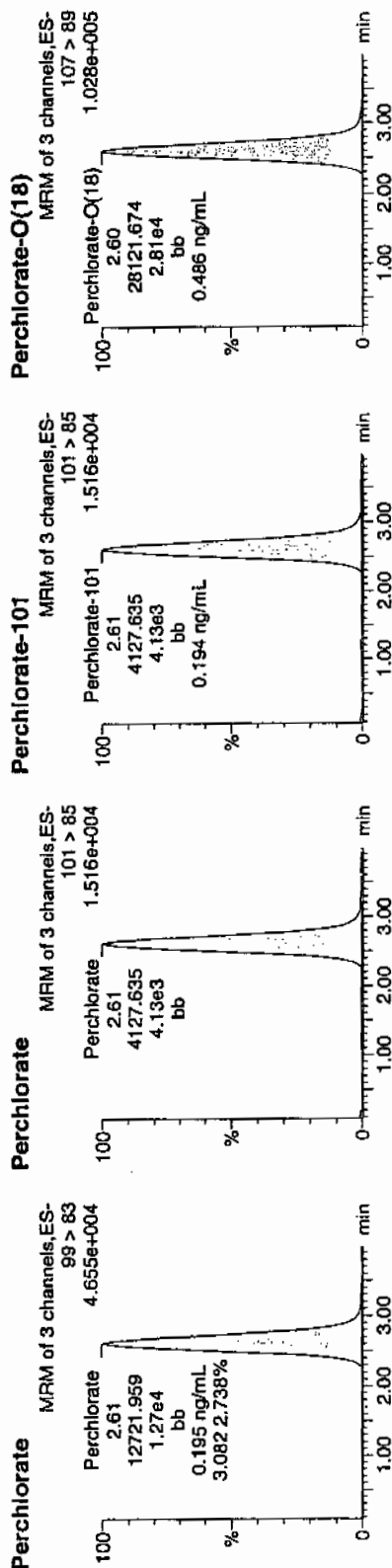
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106013a
Date: 06-Jan-2010
Time: 16:41:26
ID: 1202006990
Vial: 1:3,B

1202006990 | 937833 | LIA | LGS | 11

6233
01-07-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202006990	Perchlorate	99 > 83	2.61	12721.959	12721.959	bb			0.1952	97.58	-2.42	1982.8...	3.08
1202006990	Perchlorate-101	101 > 85	2.61	4127.635	4127.635	bb			0.1938	96.90	-3.10	1379.3...	
1202006990	Perchlorate-O(18)	107 > 89	2.60	28121.674	28121.674	bb			0.4864	97.28	-2.72	3701.4...	

18721.959
65186.4 = 0.1952
H11W
01/08/10

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: 937887 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	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202006989 MB	05-JAN-2010 13:14:57	10	10	1
1202006990 LCS	05-JAN-2010 13:14:57	10	10	1
243608001	05-JAN-2010 13:14:57	10	10	1
243621001	05-JAN-2010 13:14:57	10	10	1
243627001	05-JAN-2010 13:14:57	10	10	1
243629001	05-JAN-2010 13:14:57	10	10	1
243631001	05-JAN-2010 13:14:57	10	10	1
243632001	05-JAN-2010 13:14:57	10	10	1
1202006991 MS (243632001)	05-JAN-2010 13:14:57	10	10	1
1202006992 MSD (243632001)	05-JAN-2010 13:14:57	10	10	1
1202006993 ICS	05-JAN-2010 13:14:57	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
ICS	1202006993	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.2	mL	Desalting cartridges used: 090403-1-Ba & 091029-1-H
LCS	1202006990	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.2	mL	
MS	1202006991	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.2	mL	
MSD	1202006992	10 ug/L ICV/CCV Second Source	UCL091201-01.2	.2	mL	
RGNT	All	O2S: HPLC Grade Water	1233976	10	mL	
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1236492	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 01/06/10
 Extr. Injection Volume: 20uL
 Sequence Number: per010610a
 Initial Calibration Date: 01/06/10

Method: EPA 6850-Modified
 Int. Std.: UCL091019-03.2
 Mobile Phase Lot#: 1233781, 1233976
 Standard-Samp Reagent Lot#: 1233976

Reviewed BY: *ham*
 Date: *01/08/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100104-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0106001a	IPB001	CWW	1/6/2010 15:16			1		USE	B
per0106002a	IPB001	CWW	1/6/2010 15:23			1		USE	B
per0106003a	WCLICAL-01	CWW	1/6/2010 15:30			1		USE	I
per0106004a	WCLICAL-02	CWW	1/6/2010 15:37			1		USE	I
per0106005a	WCLICAL-03	CWW	1/6/2010 15:44			1		USE	I
per0106006a	WCLICAL-04	CWW	1/6/2010 15:52			1		USE	I
per0106007a	WCLICAL-05	CWW	1/6/2010 15:59			1		USE	I
per0106008a	IPB002	CWW	1/6/2010 16:06			1		USE	B
per0106009a	WCLICV	CWW	1/6/2010 16:13			1		USE	C
per0106010a	IPB003	CWW	1/6/2010 16:20			1		USE	B
per0106011a	WCLCRI	CWW	1/6/2010 16:27			1		USE	C
per0106012a	1202006989	CWW	1/6/2010 16:34	937888	VARIOUS	1	LANL	USE	S
per0106013a	1202006990	CWW	1/6/2010 16:41	937888	VARIOUS	1	LANL	USE	S
per0106014a	1202006993	CWW	1/6/2010 16:48	937888	VARIOUS	1	LANL	USE	S
per0106015a	243608001	CWW	1/6/2010 16:55	937888	10-1094	1	LANL	USE	S
per0106016a	243621001	CWW	1/6/2010 17:02	937888	10-1099	1	LANL	USE	S
per0106017a	243627001	CWW	1/6/2010 17:09	937888	10-1101-1	1	LANL	USE	S
per0106018a	243629001	CWW	1/6/2010 17:16	937888	10-1103-1	1	LANL	USE	S
per0106019a	243631001	CWW	1/6/2010 17:23	937888	10-1104	1	LANL	USE	S
per0106020a	WCLCCV	CWW	1/6/2010 17:30			1		USE	C
per0106021a	IPB004	CWW	1/6/2010 17:37			1		USE	B
per0106022a	WCLCRI	CWW	1/6/2010 17:44			1		USE	C
per0106023a	243632001	CWW	1/6/2010 17:51	937888	10-1105	1	LANL	USE	S
per0106024a	1202006991	CWW	1/6/2010 17:58	937888	10-1105	1	LANL	USE	S
per0106025a	1202006992	CWW	1/6/2010 18:05	937888	10-1105	1	LANL	USE	S
per0106026a	IPB005	CWW	1/6/2010 18:12			1		USE	B
per0106027a	1202009604	CWW	1/6/2010 18:19	939084	10-1116	1	LANL	USE	S
per0106028a	1202009605	CWW	1/6/2010 18:27	939084	10-1116	1	LANL	USE	S
per0106029a	1202009608	CWW	1/6/2010 18:34	939084	10-1116	1	LANL	USE	S

per0106030a	243819001	CWW	1/6/2010 18:41	939084	10-1116	1	LANL	USE	S
per0106031a	1202009606	CWW	1/6/2010 18:48	939084	10-1116	1	LANL	USE	S
per0106032a	1202009607	CWW	1/6/2010 18:55	939084	10-1116	1	LANL	USE	S
per0106033a	WCLCCV	CWW	1/6/2010 19:02			1		USE	C
per0106034a	IPB006	CWW	1/6/2010 19:09			1		USE	B
per0106035a	WCLCRI	CWW	1/6/2010 19:16			1		USE	C
per0106036a	1202006979	CWW	1/6/2010 19:23	937882	VARIOUS	1	LANL	USE	S
per0106037a	1202006980	CWW	1/6/2010 19:30	937882	VARIOUS	1	LANL	USE	S
per0106038a	1202006983	CWW	1/6/2010 19:37	937882	VARIOUS	1	LANL	USE	S
per0106039a	243623001	CWW	1/6/2010 19:44	937882	10-1099-1	1	LANL	USE	S
per0106040a	243623002	CWW	1/6/2010 19:51	937882	10-1099-1	1	LANL	USE	S
per0106041a	243623003	CWW	1/6/2010 19:58	937882	10-1099-1	1	LANL	USE	S
per0106042a	243623004	CWW	1/6/2010 20:05	937882	10-1099-1	1	LANL	USE	S
per0106043a	243623005	CWW	1/6/2010 20:12	937882	10-1099-1	1	LANL	USE	S
per0106044a	243623006	CWW	1/6/2010 20:19	937882	10-1099-1	1	LANL	USE	S
per0106045a	WCLCCV	CWW	1/6/2010 20:26			1		USE	C
per0106046a	IPB007	CWW	1/6/2010 20:34			1		USE	B
per0106047a	WCLCRI	CWW	1/6/2010 20:41			1		USE	C
per0106048a	243623007	CWW	1/6/2010 20:48	937882	10-1099-1	1	LANL	USE	S
per0106049a	243623008	CWW	1/6/2010 20:55	937882	10-1099-1	1	LANL	USE	S
per0106050a	243623009	CWW	1/6/2010 21:02	937882	10-1099-1	1	LANL	USE	S
per0106051a	243626001	CWW	1/6/2010 21:09	937882	10-1101	1	LANL	USE	S
per0106052a	1202006981	CWW	1/6/2010 21:17	937882	10-1101	1	LANL	USE	S
per0106053a	1202006982	CWW	1/6/2010 21:24	937882	10-1101	1	LANL	USE	S
per0106054a	243626002	CWW	1/6/2010 21:31	937882	10-1101	1	LANL	USE	S
per0106055a	243626003	CWW	1/6/2010 21:38	937882	10-1101	1	LANL	USE	S
per0106056a	WCLCCV	CWW	1/6/2010 21:45			1		USE	C
per0106057a	IPB008	CWW	1/6/2010 21:53			1		USE	B
per0106058a	WCLCRI	CWW	1/6/2010 22:00			1		USE	C
per0106059a	243626004	CWW	1/6/2010 22:07	937882	10-1101	1	LANL	USE	S
per0106060a	243626005	CWW	1/6/2010 22:14	937882	10-1101	1	LANL	USE	S
per0106061a	243626006	CWW	1/6/2010 22:21	937882	10-1101	1	LANL	USE	S
per0106062a	243626007	CWW	1/6/2010 22:28	937882	10-1101	1	LANL	USE	S
per0106063a	243626008	CWW	1/6/2010 22:35	937882	10-1101	1	LANL	USE	S
per0106064a	243626009	CWW	1/6/2010 22:42	937882	10-1101	1	LANL	USE	S
per0106065a	243626010	CWW	1/6/2010 22:49	937882	10-1101	1	LANL	USE	S
per0106066a	243626011	CWW	1/6/2010 22:56	937882	10-1101	1	LANL	USE	S

C B C

USE
USE
USE

1
1
1

1/6/2010 23:03
1/6/2010 23:11
1/6/2010 23:18

CWW
CWW
CWW

WCLCCV
IPB009
WCLCRI

per0106067a
per0106068a
per0106069a

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

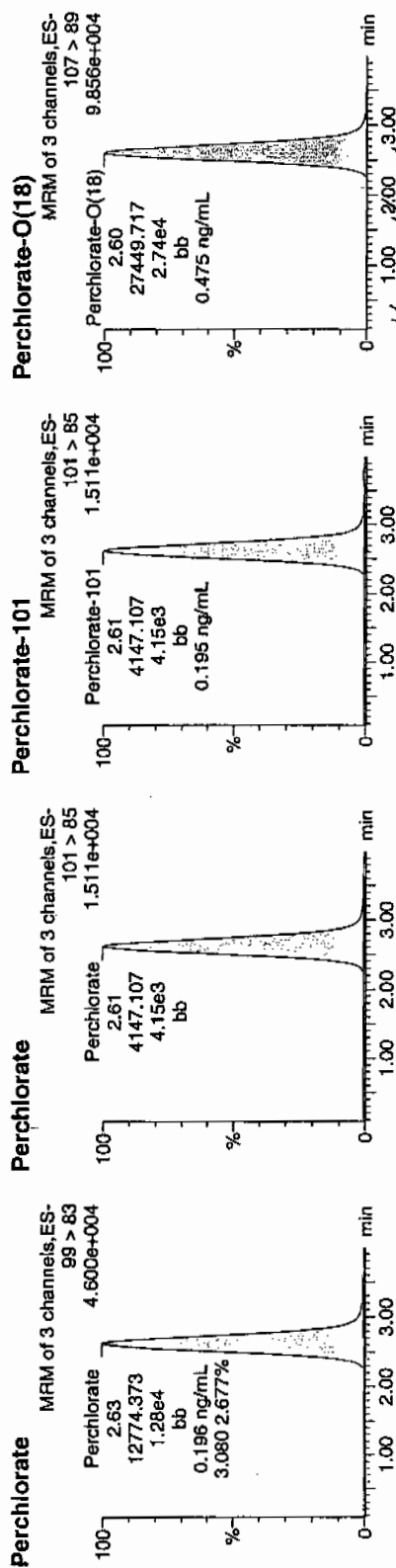
Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106024a
Date: 06-Jan-2010
Time: 17:58:51
ID: 1202006991
Vial: 1:4,D

666
01-07-10

LANL 937888 | LZW | MS | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202006991	Perchlorate	99 > 83	2.63	12774.373	12774.373	bb			0.1960	97.98	-2.02	5401.3...	3.08
1202006991	Perchlorate-101	101 > 85	2.61	4147.107	4147.107	bb			0.1947	97.36	-2.64	496.291	
1202006991	Perchlorate-O(18)	107 > 89	2.60	27449.717	27449.717	bb			0.4748	94.96	-5.04	4255.4...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per010610a.qld

Last Altered: Thursday, January 07, 2010 8:49:32 AM Eastern Standard Time
Printed: Thursday, January 07, 2010 9:05:25 AM Eastern Standard Time

Name: per0106025a

Date: 06-Jan-2010

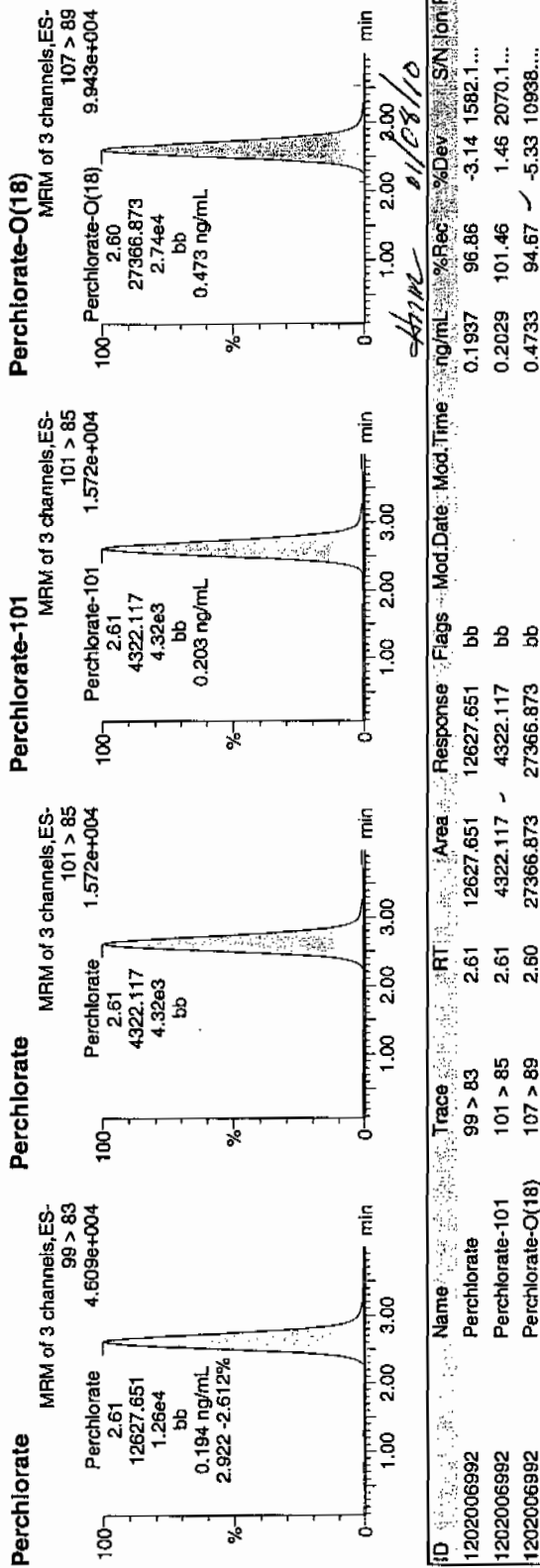
Time: 18:05:54

ID: 1202006992

Vial: 1:4,E

01-07-10

LANC | 937323 | LZU | MSO | 11



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 10-1101**

Sample Analysis

Sample ID	Client ID
243626001	RE12-10-7841
243626002	RE12-10-7840
243626003	RE12-10-7839
243626004	RE12-10-7838
243626005	RE12-10-7858
243626006	RE12-10-7846
243626007	RE12-10-7844
243626008	RE12-10-7845
243626009	RE12-10-7842
243626010	RE12-10-7843
243626011	RE12-10-7847
1202006030	Method Blank (MB) ICP
1202006031	Laboratory Control Sample (LCS)
1202006034	243626001(RE12-10-7841L) Serial Dilution (SD)
1202006032	243626001(RE12-10-7841D) Sample Duplicate (DUP)
1202006033	243626001(RE12-10-7841S) Matrix Spike (MS)
1202006035	243626001(RE12-10-7841SD) Matrix Spike Duplicate (MSD)
1202006073	Method Blank (MB) ICP-MS
1202006074	Laboratory Control Sample (LCS)
1202006077	243626001(RE12-10-7841L) Serial Dilution (SD)

1202006075	243626001(RE12-10-7841D) Sample Duplicate (DUP)
1202006076	243626001(RE12-10-7841S) Matrix Spike (MS)
1202006078	243626001(RE12-10-7841SD) Matrix Spike Duplicate (MSD)
1202012330	Method Blank (MB) CVAA
1202012331	Laboratory Control Sample (LCS)
1202012334	243626001(RE12-10-7841L) Serial Dilution (SD)
1202012332	243626001(RE12-10-7841D) Sample Duplicate (DUP)
1202012333	243626001(RE12-10-7841S) Matrix Spike (MS)
1202012335	243626001(RE12-10-7841SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	937483, 937507 and 940322
Prep Batch :	937482, 937506 and 940321
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-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

Instrument Calibration

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

CRDL Requirements

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

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following sample was selected as the quality control (QC) sample for this SDG: 243626001.

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 exception of cobalt, as indicated by the "N" qualifier.

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 exception of chromium, cobalt and selenium, as indicated by the "N" qualifiers.

MS/MSD Relative Percent Difference (RPD) Statement

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

Duplicate Relative Percent Difference (RPD) Statement

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

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 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 established criteria of less than 10% difference (%D) with the exception of nickel, as indicated by the "E" qualifier.

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 sample 243626001 and associated matrix QC required dilutions for manganese and potassium because manganese was over the linear range that affects potassium. 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: 780354 and 780457. 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 Hanson Date: 1/21/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626001

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7841

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	16000000	ug/Kg		7780	22900	22900	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-36-0	Antimony	1150	ug/Kg		378	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-38-2	Arsenic	2.37	mg/kg		0.232	1.16	1.16	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-39-3	Barium	407000	ug/Kg	*	114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-41-7	Beryllium	1.24	mg/kg		0.0232	0.116	0.116	2	MS	SKJ	01/14/10 21:25	100114-4	937507
7440-43-9	Cadmium	276	ug/Kg	J	114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-70-2	Calcium	2420000	ug/Kg		9150	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-47-3	Chromium	67600	ug/Kg	*N	172	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-48-4	Cobalt	22800	ug/Kg	*N	172	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-50-8	Copper	8500	ug/Kg		343	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-89-6	Iron	16500000	ug/Kg		9150	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-92-1	Lead	22500	ug/Kg	*	286	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-95-4	Magnesium	2400000	ug/Kg		9730	34300	34300	1	P	HSC	01/12/10 20:53	011210-1	937483
7439-96-5	Manganese	2150000	ug/Kg	*	1140	5720	5720	5	P	HSC	01/14/10 09:05	011310-2	937483
7439-97-6	Mercury	12.4	ug/kg	U	4.21	12.4	12.4	1	AV	JXL1	01/13/10 11:08	011310S1-5	940322
7440-02-0	Nickel	11.9	mg/kg	E	0.116	0.465	0.465	2	MS	SKJ	01/14/10 21:25	100114-4	937507
7440-09-7	Potassium	2490000	ug/Kg		36600	143000	143000	5	P	HSC	01/14/10 09:05	011310-2	937483
7782-49-2	Selenium	1.16	mg/kg	UN	0.581	1.16	1.16	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-22-4	Silver	725	ug/Kg		114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-23-5	Sodium	99300	ug/Kg		8010	28600	28600	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-28-0	Thallium	0.303	mg/kg		0.0697	0.232	0.232	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-61-1	Uranium	1.37	mg/kg		0.0153	0.0465	0.0465	2	MS	SKJ	01/12/10 21:07	100112-3	937507
7440-62-2	Vanadium	35400	ug/Kg		114	572	572	1	P	HSC	01/12/10 20:53	011210-1	937483
7440-66-6	Zinc	31400	ug/Kg		378	1140	1140	1	P	HSC	01/12/10 20:53	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.517	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.509	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.573	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626002

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7840

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M+	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9340000	ug/Kg		8110	23900	23900	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-36-0	Antimony	1190	ug/Kg	U	394	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-38-2	Arsenic	2.04	mg/kg		0.233	1.17	1.17	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-39-3	Barium	136000	ug/Kg	*	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-41-7	Beryllium	0.745	mg/kg		0.0233	0.117	0.117	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-43-9	Cadmium	597	ug/Kg	U	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-70-2	Calcium	2100000	ug/Kg		9540	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-47-3	Chromium	9340	ug/Kg	*N	179	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-48-4	Cobalt	4360	ug/Kg	*N	179	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-50-8	Copper	7670	ug/Kg		358	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-89-6	Iron	11800000	ug/Kg		9540	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-92-1	Lead	11000	ug/Kg	*	298	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-95-4	Magnesium	1820000	ug/Kg		10100	35800	35800	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-96-5	Manganese	345000	ug/Kg	*	239	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483
7439-97-6	Mercury	12.9	ug/kg	U	4.38	12.9	12.9	1	AV	JXLI	01/13/10 11:22	011310S1-5	940322
7440-02-0	Nickel	7.03	mg/kg	E	0.117	0.467	0.467	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-09-7	Potassium	1570000	ug/Kg		7640	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7782-49-2	Selenium	1.17	mg/kg	UN	0.584	1.17	1.17	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-22-4	Silver	396	ug/Kg	J	119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-23-5	Sodium	82900	ug/Kg		8350	29800	29800	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-28-0	Thallium	0.165	mg/kg	J	0.07	0.233	0.233	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-61-1	Uranium	3.94	mg/kg		0.0154	0.0467	0.0467	2	MS	SKJ	01/12/10 21:51	100112-3	937507
7440-62-2	Vanadium	24000	ug/Kg		119	597	597	1	P	HSC	01/12/10 21:29	011210-1	937483
7440-66-6	Zinc	26300	ug/Kg		394	1190	1190	1	P	HSC	01/12/10 21:29	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.511	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626003

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7839

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	17600000	ug/Kg		7700	22700	22700	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-36-0	Antimony	1130	ug/Kg	U	374	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-38-2	Arsenic	1.94	mg/kg		0.226	1.13	1.13	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-39-3	Barium	209000	ug/Kg	*	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-41-7	Beryllium	0.931	mg/kg		0.0226	0.113	0.113	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-43-9	Cadmium	566	ug/Kg	U	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-70-2	Calcium	2370000	ug/Kg		9060	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-47-3	Chromium	14700	ug/Kg	*N	170	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-48-4	Cobalt	5830	ug/Kg	*N	170	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-50-8	Copper	7950	ug/Kg		340	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-89-6	Iron	15200000	ug/Kg		9060	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-92-1	Lead	14800	ug/Kg	*	283	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-95-4	Magnesium	2370000	ug/Kg		9630	34000	34000	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-96-5	Manganese	426000	ug/Kg	*	227	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483
7439-97-6	Mercury	4.63	ug/kg	J	3.98	11.7	11.7	1	AV	JXL1	01/13/10 11:24	011310S1-5	940322
7440-02-0	Nickel	7.56	mg/kg	E	0.113	0.452	0.452	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-09-7	Potassium	2040000	ug/Kg		7250	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7782-49-2	Selenium	1.13	mg/kg	UN	0.565	1.13	1.13	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-22-4	Silver	337	ug/Kg	J	113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-23-5	Sodium	78500	ug/Kg		7930	28300	28300	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-28-0	Thallium	0.184	mg/kg	J	0.0678	0.226	0.226	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-61-1	Uranium	1.59	mg/kg		0.0149	0.0452	0.0452	2	MS	SKJ	01/12/10 21:57	100112-3	937507
7440-62-2	Vanadium	29800	ug/Kg		113	566	566	1	P	HSC	01/12/10 21:36	011210-1	937483
7440-66-6	Zinc	29600	ug/Kg		374	1130	1130	1	P	HSC	01/12/10 21:36	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.501	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.581	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626004

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7838

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	14000000	ug/Kg		8280	24300	24300	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-36-0	Antimony	1220	ug/Kg	U	402	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-38-2	Arsenic	2.39	mg/kg		0.251	1.25	1.25	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-39-3	Barium	203000	ug/Kg	*	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-41-7	Beryllium	0.976	mg/kg		0.0251	0.125	0.125	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-43-9	Cadmium	609	ug/Kg	U	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-70-2	Calcium	2260000	ug/Kg		9740	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-47-3	Chromium	11700	ug/Kg	*N	183	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-48-4	Cobalt	5760	ug/Kg	*N	183	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-50-8	Copper	9310	ug/Kg		365	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-89-6	Iron	14500000	ug/Kg		9740	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	304	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-95-4	Magnesium	2260000	ug/Kg		10300	36500	36500	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-96-5	Manganese	415000	ug/Kg	*	243	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483
7439-97-6	Mercury	13.8	ug/kg	U	4.68	13.8	13.8	1	AV	JXL1	01/13/10 11:26	011310S1-5	940322
7440-02-0	Nickel	8.56	mg/kg	E	0.125	0.501	0.501	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-09-7	Potassium	2260000	ug/Kg		7790	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7782-49-2	Selenium	1.25	mg/kg	UN	0.627	1.25	1.25	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-22-4	Silver	414	ug/Kg	J	122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-23-5	Sodium	66300	ug/Kg		8520	30400	30400	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-28-0	Thallium	0.202	mg/kg	J	0.0752	0.251	0.251	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-61-1	Uranium	2.05	mg/kg		0.0165	0.0501	0.0501	2	MS	SKJ	01/12/10 22:03	100112-3	937507
7440-62-2	Vanadium	28300	ug/Kg		122	609	609	1	P	HSC	01/12/10 21:57	011210-1	937483
7440-66-6	Zinc	29300	ug/Kg		402	1220	1220	1	P	HSC	01/12/10 21:57	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.525	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.51	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.557	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626005

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7858

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	4890000	ug/Kg		7500	22100	22100	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-36-0	Antimony	1100	ug/Kg	U	364	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-38-2	Arsenic	1.39	mg/kg		0.221	1.11	1.11	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-39-3	Barium	93800	ug/Kg	*	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-41-7	Beryllium	0.470	mg/kg		0.0221	0.111	0.111	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-70-2	Calcium	1850000	ug/Kg		8830	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-47-3	Chromium	8850	ug/Kg	*N	166	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-48-4	Cobalt	2700	ug/Kg	*N	166	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-50-8	Copper	5960	ug/Kg		331	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-89-6	Iron	8420000	ug/Kg		8830	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-92-1	Lead	7060	ug/Kg	*	276	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-95-4	Magnesium	1110000	ug/Kg		9380	33100	33100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-96-5	Manganese	232000	ug/Kg	*	221	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483
7439-97-6	Mercury	12.6	ug/kg	U	4.27	12.6	12.6	1	AV	JXL1	01/13/10 11:28	011310S1-5	940322
7440-02-0	Nickel	6.83	mg/kg	E	0.111	0.442	0.442	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-09-7	Potassium	1140000	ug/Kg		7060	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.553	1.11	1.11	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-22-4	Silver	327	ug/Kg	J	110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-23-5	Sodium	84200	ug/Kg		7720	27600	27600	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-28-0	Thallium	0.118	mg/kg	J	0.0663	0.221	0.221	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-61-1	Uranium	2.39	mg/kg		0.0146	0.0442	0.0442	2	MS	SKJ	01/12/10 22:09	100112-3	937507
7440-62-2	Vanadium	17100	ug/Kg		110	552	552	1	P	HSC	01/12/10 22:04	011210-1	937483
7440-66-6	Zinc	17500	ug/Kg		364	1100	1100	1	P	HSC	01/12/10 22:04	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.517	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.516	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.545	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626006

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7846

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	12600000	ug/Kg		7690	22600	22600	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-38-2	Arsenic	1.86	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-39-3	Barium	192000	ug/Kg	*	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-41-7	Beryllium	0.793	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-43-9	Cadmium	565	ug/Kg	U	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-70-2	Calcium	2060000	ug/Kg		9040	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-47-3	Chromium	18100	ug/Kg	*N	170	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-48-4	Cobalt	6310	ug/Kg	*N	170	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-50-8	Copper	7140	ug/Kg		339	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-89-6	Iron	13500000	ug/Kg		9040	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	283	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-95-4	Magnesium	1970000	ug/Kg		9610	33900	33900	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-96-5	Manganese	460000	ug/Kg	*	226	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483
7439-97-6	Mercury	5.52	ug/kg	J	4.14	12.2	12.2	1	AV	JXL1	01/13/10 11:30	011310S1-5	940322
7440-02-0	Nickel	7.45	mg/kg	E	0.111	0.444	0.444	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-09-7	Potassium	1940000	ug/Kg		7230	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.555	1.11	1.11	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-22-4	Silver	348	ug/Kg	J	113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-23-5	Sodium	83600	ug/Kg		7910	28300	28300	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-28-0	Thallium	0.194	mg/kg	J	0.0666	0.222	0.222	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-61-1	Uranium	1.49	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	01/12/10 22:28	100112-3	937507
7440-62-2	Vanadium	28400	ug/Kg		113	565	565	1	P	HSC	01/12/10 22:11	011210-1	937483
7440-66-6	Zinc	25800	ug/Kg		373	1130	1130	1	P	HSC	01/12/10 22:11	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.503	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.512	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.56	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626007

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7844

LEVEL: Low

DATE RECEIVED 29-DEC-09

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	7520000	ug/Kg		7760	22800	22800	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-38-2	Arsenic	1.31	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-39-3	Barium	150000	ug/Kg	*	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-41-7	Beryllium	0.523	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-43-9	Cadmium	571	ug/Kg	U	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-70-2	Calcium	2320000	ug/Kg		9130	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-47-3	Chromium	27100	ug/Kg	*N	171	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-48-4	Cobalt	4190	ug/Kg	*N	171	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-50-8	Copper	8090	ug/Kg		342	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-89-6	Iron	10700000	ug/Kg		9130	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-92-1	Lead	8710	ug/Kg	*	285	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-95-4	Magnesium	1650000	ug/Kg		9700	34200	34200	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-96-5	Manganese	414000	ug/Kg	*	228	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483
7439-97-6	Mercury	13.5	ug/kg	U	4.6	13.5	13.5	1	AV	JXL1	01/13/10 11:32	011310S1-5	940322
7440-02-0	Nickel	7.68	mg/kg	E	0.111	0.444	0.444	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-09-7	Potassium	1560000	ug/Kg		7310	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.555	1.11	1.11	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-22-4	Silver	436	ug/Kg	J	114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-23-5	Sodium	104000	ug/Kg		7990	28500	28500	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-28-0	Thallium	0.133	mg/kg	J	0.0667	0.222	0.222	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-61-1	Uranium	2.79	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	01/12/10 22:34	100112-3	937507
7440-62-2	Vanadium	23200	ug/Kg		114	571	571	1	P	HSC	01/12/10 22:18	011210-1	937483
7440-66-6	Zinc	21100	ug/Kg		377	1140	1140	1	P	HSC	01/12/10 22:18	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.505	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.519	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.511	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626008

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7845

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 92.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14000000	ug/Kg		7240	21300	21300	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-36-0	Antimony	1060	ug/Kg	U	351	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-38-2	Arsenic	2.09	mg/kg		0.216	1.08	1.08	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-39-3	Barium	225000	ug/Kg	*	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-41-7	Beryllium	0.914	mg/kg		0.0216	0.108	0.108	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-43-9	Cadmium	154	ug/Kg	J	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-70-2	Calcium	3160000	ug/Kg		8510	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-47-3	Chromium	13300	ug/Kg	*N	160	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-48-4	Cobalt	12400	ug/Kg	*N	160	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-50-8	Copper	8170	ug/Kg		319	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-89-6	Iron	15000000	ug/Kg		8510	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-92-1	Lead	15000	ug/Kg	*	266	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-95-4	Magnesium	2260000	ug/Kg		9040	31900	31900	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-96-5	Manganese	493000	ug/Kg	*	213	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483
7439-97-6	Mercury	30.5	ug/kg		4.37	12.8	12.8	1	AV	JXL1	01/13/10 11:34	011310S1-5	940322
7440-02-0	Nickel	7.34	mg/kg	E	0.108	0.432	0.432	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-09-7	Potassium	2020000	ug/Kg		6810	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7782-49-2	Selenium	1.08	mg/kg	UN	0.541	1.08	1.08	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-22-4	Silver	337	ug/Kg	J	106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-23-5	Sodium	95900	ug/Kg		7450	26600	26600	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-28-0	Thallium	0.183	mg/kg	J	0.0649	0.216	0.216	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-61-1	Uranium	1.02	mg/kg		0.0143	0.0432	0.0432	2	MS	SKJ	01/12/10 22:40	100112-3	937507
7440-62-2	Vanadium	29400	ug/Kg		106	532	532	1	P	HSC	01/12/10 22:26	011210-1	937483
7440-66-6	Zinc	27400	ug/Kg		351	1060	1060	1	P	HSC	01/12/10 22:26	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.508	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.5	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.505	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626009

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7842

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	13400000	ug/Kg		7730	22700	22700	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-38-2	Arsenic	2.03	mg/kg		0.228	1.14	1.14	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-39-3	Barium	226000	ug/Kg	*	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-41-7	Beryllium	0.878	mg/kg		0.0228	0.114	0.114	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-43-9	Cadmium	569	ug/Kg	U	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-70-2	Calcium	2130000	ug/Kg		9100	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-47-3	Chromium	24500	ug/Kg	*N	171	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-48-4	Cobalt	17300	ug/Kg	*N	171	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-50-8	Copper	7960	ug/Kg		341	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-89-6	Iron	13900000	ug/Kg		9100	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-92-1	Lead	18400	ug/Kg	*	284	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-95-4	Magnesium	1950000	ug/Kg		9670	34100	34100	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-96-5	Manganese	802000	ug/Kg	*	227	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483
7439-97-6	Mercury	9.61	ug/kg	J	4.26	12.5	12.5	1	AV	JXL1	01/13/10 11:36	011310S1-5	940322
7440-02-0	Nickel	8.71	mg/kg	E	0.114	0.456	0.456	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-09-7	Potassium	2030000	ug/Kg		7280	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7782-49-2	Selenium	1.14	mg/kg	UN	0.57	1.14	1.14	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-22-4	Silver	503	ug/Kg	J	114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-23-5	Sodium	61200	ug/Kg		7960	28400	28400	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-28-0	Thallium	0.187	mg/kg	J	0.0684	0.228	0.228	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-61-1	Uranium	1.84	mg/kg		0.015	0.0456	0.0456	2	MS	SKJ	01/12/10 22:47	100112-3	937507
7440-62-2	Vanadium	28500	ug/Kg		114	569	569	1	P	HSC	01/12/10 22:33	011210-1	937483
7440-66-6	Zinc	26100	ug/Kg		375	1140	1140	1	P	HSC	01/12/10 22:33	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.51	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.509	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626010

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7843

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14500000	ug/Kg		7390	21700	21700	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-36-0	Antimony	1090	ug/Kg	U	359	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-38-2	Arsenic	2.26	mg/kg		0.222	1.11	1.11	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-39-3	Barium	195000	ug/Kg	*	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-41-7	Beryllium	1.01	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-70-2	Calcium	2120000	ug/Kg		8700	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-47-3	Chromium	20000	ug/Kg	*N	163	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-48-4	Cobalt	5760	ug/Kg	*N	163	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-50-8	Copper	7060	ug/Kg		326	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-89-6	Iron	13300000	ug/Kg		8700	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-92-1	Lead	13100	ug/Kg	*	272	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-95-4	Magnesium	2110000	ug/Kg		9240	32600	32600	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-96-5	Manganese	384000	ug/Kg	*	217	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483
7439-97-6	Mercury	12.9	ug/kg	U	4.38	12.9	12.9	1	AV	JXL	01/13/10 11:42	011310S1-5	940322
7440-02-0	Nickel	8.67	mg/kg	E	0.111	0.445	0.445	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-09-7	Potassium	2050000	ug/Kg		6960	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7782-49-2	Selenium	1.11	mg/kg	UN	0.556	1.11	1.11	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-22-4	Silver	335	ug/Kg	J	109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-23-5	Sodium	67100	ug/Kg		7610	27200	27200	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-28-0	Thallium	0.210	mg/kg	J	0.0667	0.222	0.222	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-61-1	Uranium	1.27	mg/kg		0.0147	0.0445	0.0445	2	MS	SKJ	01/12/10 22:53	100112-3	937507
7440-62-2	Vanadium	26300	ug/Kg		109	544	544	1	P	HSC	01/12/10 22:40	011210-1	937483
7440-66-6	Zinc	26200	ug/Kg		359	1090	1090	1	P	HSC	01/12/10 22:40	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.513	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.502	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.52	g	30	mL	01/12/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243626011

BASIS: Dry Weight

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7847

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	15300000	ug/Kg		7420	21800	21800	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-36-0	Antimony	1090	ug/Kg	U	360	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-38-2	Arsenic	1.94	mg/kg		0.218	1.09	1.09	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-39-3	Barium	211000	ug/Kg	*	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-41-7	Beryllium	0.961	mg/kg		0.0218	0.109	0.109	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-43-9	Cadmium	545	ug/Kg	U	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-70-2	Calcium	2240000	ug/Kg		8730	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-47-3	Chromium	36800	ug/Kg	*N	164	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-48-4	Cobalt	7270	ug/Kg	*N	164	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-50-8	Copper	7290	ug/Kg		327	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-89-6	Iron	14800000	ug/Kg		8730	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-92-1	Lead	14400	ug/Kg	*	273	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-95-4	Magnesium	2290000	ug/Kg		9270	32700	32700	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-96-5	Manganese	466000	ug/Kg	*	218	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483
7439-97-6	Mercury	11.9	ug/kg	U	4.03	11.9	11.9	1	AV	JXL1	01/13/10 11:43	011310S1-5	940322
7440-02-0	Nickel	9.65	mg/kg	E	0.109	0.435	0.435	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-09-7	Potassium	2200000	ug/Kg		6980	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7782-49-2	Selenium	1.09	mg/kg	UN	0.544	1.09	1.09	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-22-4	Silver	476	ug/Kg	J	109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-23-5	Sodium	92800	ug/Kg		7640	27300	27300	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-28-0	Thallium	0.206	mg/kg	J	0.0653	0.218	0.218	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-61-1	Uranium	1.31	mg/kg		0.0144	0.0435	0.0435	2	MS	SKJ	01/12/10 22:59	100112-3	937507
7440-62-2	Vanadium	29100	ug/Kg		109	545	545	1	P	HSC	01/12/10 22:47	011210-1	937483
7440-66-6	Zinc	26400	ug/Kg		360	1090	1090	1	P	HSC	01/12/10 22:47	011210-1	937483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937483	937482	SW846 3050B	0.504	g	50	mL	12/30/09	BXA1
937507	937506	SW846 3050B	0.505	g	50	mL	12/30/09	BXA1
940322	940321	SW846 7471A Prep	0.556	g	30	mL	01/12/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Antimony	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Barium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Cadmium	495	ug/L	500	ug/L	99	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Calcium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Chromium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Cobalt	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Lead	495	ug/L	500	ug/L	99	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Magnesium	5260	ug/L	5000	ug/L	105.3	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Potassium	2450	ug/L	2500	ug/L	98	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Silver	259	ug/L	250	ug/L	103.6	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Sodium	2480	ug/L	2500	ug/L	99.1	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Zinc	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	12-JAN-10 13:01	011210-1
	Arsenic	48.1	ug/L	50	ug/L	96.1	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Beryllium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Nickel	51.2	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Selenium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Thallium	49.2	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Uranium	53.4	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	12-JAN-10 19:52	100112-3
	Mercury	5.12	ug/L	5	ug/L	102.4	90.0 – 110.0	AV	13-JAN-10 09:56	011310S1-5
	Manganese	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	13-JAN-10 12:15	011310-2
	Potassium	2560	ug/L	2500	ug/L	102.6	90.0 – 110.0	P	13-JAN-10 12:15	011310-2
	Beryllium	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	14-JAN-10 20:45	100114-4
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	14-JAN-10 20:45	100114-4
CCV01										
	Aluminum	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	12-JAN-10 13:47	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,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	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Barium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Cadmium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Chromium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Iron	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Lead	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Magnesium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Manganese	500	ug/L	500	ug/L	100	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Potassium	5330	ug/L	5000	ug/L	106.5	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Sodium	9680	ug/L	10000	ug/L	96.8	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	12-JAN-10 13:47	011210-1
	Arsenic	48	ug/L	50	ug/L	96	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Beryllium	50.2	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Nickel	52.1	ug/L	50	ug/L	104.2	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Selenium	48.9	ug/L	50	ug/L	97.8	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Thallium	48.6	ug/L	50	ug/L	97.1	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Uranium	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	12-JAN-10 20:23	100112-3
	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	13-JAN-10 10:02	011310S1-5
	Manganese	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	13-JAN-10 13:15	011310-2
	Potassium	5130	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	13-JAN-10 13:15	011310-2
	Beryllium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	14-JAN-10 21:03	100114-4
	Nickel	51.7	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	14-JAN-10 21:03	100114-4
CCV02	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Antimony	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	12-JAN-10 14:19	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,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	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Cadmium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Calcium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Chromium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Lead	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Manganese	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Potassium	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Silver	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Sodium	9800	ug/L	10000	ug/L	98	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Vanadium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Zinc	505	ug/L	500	ug/L	101	90.0 – 110.0	P	12-JAN-10 14:19	011210-1
	Arsenic	48.3	ug/L	50	ug/L	96.6	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Beryllium	50.6	ug/L	50	ug/L	101.1	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Nickel	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Selenium	49.7	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Thallium	49.8	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Uranium	54.1	ug/L	50	ug/L	108.2	90.0 – 110.0	MS	12-JAN-10 20:42	100112-3
	Mercury	4.98	ug/L	5	ug/L	99.5	80.0 – 120.0	AV	13-JAN-10 10:26	011310S1-5
	Manganese	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	13-JAN-10 13:36	011310-2
	Potassium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	13-JAN-10 13:36	011310-2
	Beryllium	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	14-JAN-10 21:18	100114-4
	Nickel	51.6	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	14-JAN-10 21:18	100114-4
CCV03	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Antimony	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Barium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 15:14	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Iron	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Lead	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Magnesium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Manganese	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Potassium	4970	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Silver	510	ug/L	500	ug/L	102	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Sodium	9310	ug/L	10000	ug/L	93.1	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Zinc	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 15:14	011210-1
	Arsenic	47.7	ug/L	50	ug/L	95.4	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Beryllium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Nickel	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Selenium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Thallium	48.6	ug/L	50	ug/L	97.2	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Uranium	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	12-JAN-10 21:26	100112-3
	Mercury	5.22	ug/L	5	ug/L	104.4	80.0 – 120.0	AV	13-JAN-10 10:50	011310S1-5
	Manganese	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	13-JAN-10 14:37	011310-2
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	13-JAN-10 14:37	011310-2
	Beryllium	53	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	14-JAN-10 21:43	100114-4
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	14-JAN-10 21:43	100114-4
CCV04	Aluminum	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Antimony	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Barium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Cadmium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 16:37	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Chromium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Copper	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Lead	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Manganese	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Potassium	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Silver	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Sodium	9530	ug/L	10000	ug/L	95.3	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Zinc	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	12-JAN-10 16:37	011210-1
	Arsenic	47.9	ug/L	50	ug/L	95.8	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Beryllium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Nickel	52.1	ug/L	50	ug/L	104.2	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Selenium	47.8	ug/L	50	ug/L	95.5	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Thallium	48.6	ug/L	50	ug/L	97.1	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Uranium	53.3	ug/L	50	ug/L	106.7	90.0 – 110.0	MS	12-JAN-10 22:16	100112-3
	Mercury	5.38	ug/L	5	ug/L	107.6	80.0 – 120.0	AV	13-JAN-10 11:14	011310S1-5
	Manganese	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	13-JAN-10 15:05	011310-2
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	13-JAN-10 15:05	011310-2
CCV05	Aluminum	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Antimony	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Barium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Cadmium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Calcium	5220	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Chromium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	12-JAN-10 17:33	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Copper	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Lead	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Magnesium	5340	ug/L	5000	ug/L	106.7	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Manganese	510	ug/L	500	ug/L	102	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Potassium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Silver	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Sodium	9710	ug/L	10000	ug/L	97.1	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Zinc	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	12-JAN-10 17:33	011210-1
	Arsenic	48.3	ug/L	50	ug/L	96.6	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Beryllium	49.2	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Nickel	52.8	ug/L	50	ug/L	105.7	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Selenium	47.8	ug/L	50	ug/L	95.6	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Thallium	48.4	ug/L	50	ug/L	96.8	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Uranium	53.3	ug/L	50	ug/L	106.7	90.0 – 110.0	MS	12-JAN-10 23:05	100112-3
	Mercury	5.46	ug/L	5	ug/L	109.2	80.0 – 120.0	AV	13-JAN-10 11:38	011310S1-5
	Manganese	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	13-JAN-10 16:00	011310-2
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	13-JAN-10 16:00	011310-2
CCV06	Aluminum	5190	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Antimony	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Barium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Cadmium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Calcium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Chromium	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Cobalt	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Copper	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Iron	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Lead	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	12-JAN-10 18:21	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,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	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Manganese	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Potassium	4980	ug/L	5000	ug/L	99.6	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Silver	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Sodium	9850	ug/L	10000	ug/L	98.5	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Zinc	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	12-JAN-10 18:21	011210-1
	Mercury	5.4	ug/L	5	ug/L	107.9	80.0 – 120.0	AV	13-JAN-10 11:49	011310S1-5
	Manganese	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	13-JAN-10 17:31	011310-2
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	13-JAN-10 17:31	011310-2
CCV07	Aluminum	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Antimony	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Barium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Cadmium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Calcium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Chromium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Iron	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Lead	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Magnesium	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Manganese	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Potassium	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Sodium	9500	ug/L	10000	ug/L	95	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Zinc	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 19:17	011210-1
	Manganese	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	13-JAN-10 18:32	011310-2
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	13-JAN-10 18:32	011310-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV08										
	Aluminum	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Antimony	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Cadmium	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Cobalt	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Copper	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Iron	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Lead	500	ug/L	500	ug/L	100	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Manganese	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Potassium	4790	ug/L	5000	ug/L	95.8	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Sodium	9480	ug/L	10000	ug/L	94.9	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Zinc	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	12-JAN-10 20:26	011210-1
	Manganese	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	13-JAN-10 19:50	011310-2
	Potassium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	13-JAN-10 19:50	011310-2
CCV09										
	Aluminum	5170	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Antimony	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Barium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Cadmium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Calcium	5130	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Copper	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Iron	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	12-JAN-10 21:43	011210-1
	Lead	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	12-JAN-10 21:43	011210-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,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	5270	ug/L	5000	ug/L	105.5	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Manganese	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Potassium	4930	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Sodium	9850	ug/L	10000	ug/L	98.5	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Vanadium	510	ug/L	500	ug/L	102.1	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Zinc	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	12-JAN-10 21:43	011210-1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	13-JAN-10 20:52	011310-2
	Potassium	5180	ug/L	5000	ug/L	103.5	90.0 - 110.0	P	13-JAN-10 20:52	011310-2
CCV10										
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Antimony	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Barium	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Cadmium	502	ug/L	500	ug/L	100.3	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Chromium	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Cobalt	502	ug/L	500	ug/L	100.3	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Copper	494	ug/L	500	ug/L	98.9	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Iron	5070	ug/L	5000	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Lead	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Manganese	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Potassium	4920	ug/L	5000	ug/L	98.4	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Silver	505	ug/L	500	ug/L	101	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Sodium	9510	ug/L	10000	ug/L	95.1	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Vanadium	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Zinc	500	ug/L	500	ug/L	99.9	90.0 - 110.0	P	12-JAN-10 22:54	011210-1
	Manganese	505	ug/L	500	ug/L	101	90.0 - 110.0	P	13-JAN-10 21:53	011310-2
	Potassium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	13-JAN-10 21:53	011310-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV11	Manganese	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	13-JAN-10 23:09	011310-2
	Potassium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	13-JAN-10 23:09	011310-2
CCV12	Manganese	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	14-JAN-10 00:27	011310-2
	Potassium	5400	ug/L	5000	ug/L	108.1	90.0 – 110.0	P	14-JAN-10 00:27	011310-2
CCV13	Manganese	515	ug/L	500	ug/L	103	90.0 – 110.0	P	14-JAN-10 01:37	011310-2
	Potassium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	14-JAN-10 01:37	011310-2
CCV14	Manganese	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	14-JAN-10 02:46	011310-2
	Potassium	5410	ug/L	5000	ug/L	108.2	90.0 – 110.0	P	14-JAN-10 02:46	011310-2
CCV15	Manganese	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	14-JAN-10 04:01	011310-2
	Potassium	5460	ug/L	5000	ug/L	109.1	90.0 – 110.0	P	14-JAN-10 04:01	011310-2
CCV16	Manganese	536	ug/L	500	ug/L	107.1	90.0 – 110.0	P	14-JAN-10 04:43	011310-2
	Potassium	5440	ug/L	5000	ug/L	108.8	90.0 – 110.0	P	14-JAN-10 04:43	011310-2
CCV17	Manganese	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	14-JAN-10 05:59	011310-2
	Potassium	5550	ug/L	5000	ug/L	111	90.0 – 110.0	P	14-JAN-10 05:59	011310-2
CCV18	Manganese	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	14-JAN-10 07:08	011310-2
	Potassium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	14-JAN-10 07:08	011310-2
CCV19	Manganese	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14-JAN-10 08:44	011310-2
	Potassium	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	14-JAN-10 08:44	011310-2
CCV20	Manganese	500	ug/L	500	ug/L	100	90.0 – 110.0	P	14-JAN-10 09:40	011310-2
	Potassium	5260	ug/L	5000	ug/L	105.3	90.0 – 110.0	P	14-JAN-10 09:40	011310-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS4,MER536,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										
	Nickel	2.22	ug/L	2	ug/L	110.9	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Thallium	1.11	ug/L	1	ug/L	111.2	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Beryllium	.568	ug/L	.5	ug/L	113.6	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Arsenic	5.18	ug/L	5	ug/L	103.6	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Uranium	.228	ug/L	.2	ug/L	114	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Selenium	5.15	ug/L	5	ug/L	102.9	70.0 – 130.0	MS	12-JAN-10 20:05	100112-3
	Mercury	.137	ug/L	.2	ug/L	68.4	70.0 – 130.0	AV	13-JAN-10 10:00	011310S1-5
	Nickel	2.17	ug/L	2	ug/L	108.6	70.0 – 130.0	MS	14-JAN-10 20:52	100114-4
	Beryllium	.609	ug/L	.5	ug/L	121.8	70.0 – 130.0	MS	14-JAN-10 20:52	100114-4
PQL01										
	Aluminum	207	ug/L	200	ug/L	103.5	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Iron	92.8	ug/L	100	ug/L	92.8	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Lead	9.98	ug/L	10	ug/L	99.8	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Potassium	150	ug/L	150	ug/L	99.8	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Manganese	10.4	ug/L	10	ug/L	103.6	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Magnesium	267	ug/L	300	ug/L	89	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Silver	4.91	ug/L	5	ug/L	98.2	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Antimony	11.3	ug/L	10	ug/L	113.1	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Cadmium	4.96	ug/L	5	ug/L	99.1	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Calcium	204	ug/L	200	ug/L	102.2	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Zinc	10.5	ug/L	10	ug/L	105.2	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Vanadium	5.26	ug/L	5	ug/L	105.2	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Copper	9.97	ug/L	10	ug/L	99.7	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Cobalt	4.88	ug/L	5	ug/L	97.6	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Chromium	4.69	ug/L	5	ug/L	93.9	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Barium	4.95	ug/L	5	ug/L	99	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Sodium	320	ug/L	300	ug/L	106.6	70.0 – 130.0	P	12-JAN-10 13:15	011210-1
	Potassium	163	ug/L	150	ug/L	108.6	70.0 – 130.0	P	13-JAN-10 12:28	011310-2
	Manganese	10.2	ug/L	10	ug/L	102.3	70.0 – 130.0	P	13-JAN-10 12:28	011310-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: ICPMS4,MER536,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>
PQL02	Manganese	10.3	ug/L	10	ug/L	102.7	70.0 – 130.0	P	13-JAN-10 16:07	011310-2
	Potassium	177	ug/L	150	ug/L	117.7	70.0 – 130.0	P	13-JAN-10 16:07	011310-2
PQL03	Manganese	10.4	ug/L	10	ug/L	104.1	70.0 – 130.0	P	13-JAN-10 17:38	011310-2
	Potassium	192	ug/L	150	ug/L	128	70.0 – 130.0	P	13-JAN-10 17:38	011310-2
PQL04	Manganese	10.3	ug/L	10	ug/L	102.9	70.0 – 130.0	P	13-JAN-10 18:39	011310-2
	Potassium	182	ug/L	150	ug/L	121.2	70.0 – 130.0	P	13-JAN-10 18:39	011310-2
PQL05	Manganese	10.4	ug/L	10	ug/L	104	70.0 – 130.0	P	14-JAN-10 04:50	011310-2
	Potassium	226	ug/L	150	ug/L	150.8	70.0 – 130.0	P	14-JAN-10 04:50	011310-2
PQL06	Manganese	10.9	ug/L	10	ug/L	108.5	70.0 – 130.0	P	14-JAN-10 06:06	011310-2
	Potassium	249	ug/L	150	ug/L	165.7	70.0 – 130.0	P	14-JAN-10 06:06	011310-2
PQL07	Potassium	280	ug/L	150	ug/L	186.6	70.0 – 130.0	P	14-JAN-10 07:15	011310-2
	Manganese	10.1	ug/L	10	ug/L	101.4	70.0 – 130.0	P	14-JAN-10 07:15	011310-2
PQL08	Manganese	10.2	ug/L	10	ug/L	102.2	70.0 – 130.0	P	14-JAN-10 08:51	011310-2
	Potassium	215	ug/L	150	ug/L	143.6	70.0 – 130.0	P	14-JAN-10 08:51	011310-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 13:08	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 13:08	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 13:08	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 13:08	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 13:08	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 13:08	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 13:08	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 13:08	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 13:08	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 13:08	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:08	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 13:08	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 19:59	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 19:59	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 19:59	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 19:59	100112-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	12-JAN-10 19:59	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 19:59	100112-3
	Mercury	-0.105	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 09:58	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 12:22	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 12:22	011310-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-JAN-10 20:49	100114-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-JAN-10 20:49	100114-4
CCB01	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 13:54	011210-1
	Antimony	6.68	+/-10	J	3.3	10.0	SOL	P	12-JAN-10 13:54	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 13:54	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 13:54	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 13:54	011210-1
	Lead	2.68	+/-10	J	2.5	10.0	SOL	P	12-JAN-10 13:54	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 13:54	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 13:54	011210-1
	Potassium	129.14	+/-250	J	64.0	250	SOL	P	12-JAN-10 13:54	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Sodium	88.64	+/-250	J	70.0	250	SOL	P	12-JAN-10 13:54	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 13:54	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 13:54	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 20:30	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 20:30	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 20:30	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 20:30	100112-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	12-JAN-10 20:30	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 20:30	100112-3
	Mercury	-0.078	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 10:04	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 13:22	011310-2
	Potassium	75.95	+/-250	J	64.0	250	SOL	P	13-JAN-10 13:22	011310-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-JAN-10 21:07	100114-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-JAN-10 21:07	100114-4
CCB02	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 14:26	011210-1
	Antimony	5.07	+/-10	J	3.3	10.0	SOL	P	12-JAN-10 14:26	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 14:26	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 14:26	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

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	12-JAN-10 14:26	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 14:26	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 14:26	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 14:26	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 14:26	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 14:26	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 14:26	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 14:26	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 14:26	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 14:26	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 14:26	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 14:26	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 14:26	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 20:48	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 20:48	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 20:48	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 20:48	100112-3
	Thallium	0.373	+/-1	J	0.3	1.0	SOL	MS	12-JAN-10 20:48	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 20:48	100112-3
	Mercury	-0.124	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 10:28	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 13:43	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 13:43	011310-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-JAN-10 21:21	100114-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-JAN-10 21:21	100114-4
CCB03	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 15:21	011210-1
	Antimony	4.09	+/-10	J	3.3	10.0	SOL	P	12-JAN-10 15:21	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 15:21	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 15:21	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 15:21	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 15:21	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 15:21	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 15:21	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 15:21	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 15:21	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 15:21	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 15:21	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 15:21	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 15:21	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 15:21	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 15:21	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 15:21	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 21:32	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 21:32	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 21:32	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 21:32	100112-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	12-JAN-10 21:32	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 21:32	100112-3
	Mercury	-0.163	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 10:52	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 14:44	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 14:44	011310-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-JAN-10 21:47	100114-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-JAN-10 21:47	100114-4
CCB04	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 16:44	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 16:44	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 16:44	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 16:44	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

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>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 16:44	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 16:44	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 16:44	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 16:44	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 16:44	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 16:44	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 16:44	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 16:44	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 22:22	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 22:22	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 22:22	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 22:22	100112-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	12-JAN-10 22:22	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 22:22	100112-3
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	13-JAN-10 11:16	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 15:12	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 15:12	011310-2
CCB05	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 17:40	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 17:40	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 17:40	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 17:40	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 17:40	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 17:40	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 17:40	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 17:40	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

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>
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 17:40	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 17:40	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 17:40	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 17:40	011210-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-JAN-10 23:12	100112-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-JAN-10 23:12	100112-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-JAN-10 23:12	100112-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-JAN-10 23:12	100112-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	12-JAN-10 23:12	100112-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-JAN-10 23:12	100112-3
	Mercury	-0.088	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 11:40	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 16:14	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 16:14	011310-2
CCB06	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 18:28	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 18:28	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 18:28	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 18:28	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 18:28	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 18:28	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 18:28	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 18:28	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 18:28	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 18:28	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 18:28	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 18:28	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 18:28	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 18:28	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 18:28	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 18:28	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

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	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 18:28	011210-1
	Mercury	-0.13	+/-2	J	0.068	0.2	SOL	AV	13-JAN-10 11:51	011310S1-5
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 17:45	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 17:45	011310-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 19:24	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 19:24	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 19:24	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 19:24	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 19:24	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 19:24	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 19:24	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 19:24	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 19:24	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 19:24	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 19:24	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 19:24	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 18:46	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 18:46	011310-2
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 20:33	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 20:33	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 20:33	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 20:33	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 20:33	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 20:33	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 20:33	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 20:33	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 20:33	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 20:33	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 20:33	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 20:33	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 20:33	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 20:33	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 20:33	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 20:33	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 20:33	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 19:57	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 19:57	011310-2
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 21:50	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 21:50	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 21:50	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 21:50	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 21:50	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 21:50	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 21:50	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 21:50	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 21:50	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 21:50	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 21:50	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 21:50	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB10	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 20:59	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 20:59	011310-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	12-JAN-10 23:01	011210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 23:01	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 23:01	011210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	12-JAN-10 23:01	011210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	12-JAN-10 23:01	011210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	12-JAN-10 23:01	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	12-JAN-10 23:01	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	12-JAN-10 23:01	011210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	12-JAN-10 23:01	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	12-JAN-10 23:01	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	12-JAN-10 23:01	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-JAN-10 23:01	011210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 22:00	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 22:00	011310-2
CCB11	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	13-JAN-10 23:16	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	13-JAN-10 23:16	011310-2
CCB12	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 00:34	011310-2
	Potassium	72.03	+/-250	J	64.0	250	SOL	P	14-JAN-10 00:34	011310-2
CCB13	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 01:44	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	14-JAN-10 01:44	011310-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB14	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 02:54	011310-2
	Potassium	98.73	+/-250	J	64.0	250	SOL	P	14-JAN-10 02:54	011310-2
CCB15	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 04:08	011310-2
	Potassium	84.68	+/-250	J	64.0	250	SOL	P	14-JAN-10 04:08	011310-2
CCB16	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 04:57	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	14-JAN-10 04:57	011310-2
CCB17	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 06:12	011310-2
	Potassium	86.04	+/-250	J	64.0	250	SOL	P	14-JAN-10 06:12	011310-2
CCB18	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 07:22	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	14-JAN-10 07:22	011310-2
CCB19	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 08:58	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	14-JAN-10 08:58	011310-2
CCB20	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	14-JAN-10 09:47	011310-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	14-JAN-10 09:47	011310-2

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1101
 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>
1202006030	Aluminum	6690	ug/Kg	+/-19700	U	P	6690	19700
	Antimony	325	ug/Kg	+/-984	U	P	325	984
	Barium	98.4	ug/Kg	+/-492	U	P	98.4	492
	Cadmium	98.4	ug/Kg	+/-492	U	P	98.4	492
	Calcium	7870	ug/Kg	+/-24600	U	P	7870	24600
	Chromium	148	ug/Kg	+/-492	U	P	148	492
	Cobalt	148	ug/Kg	+/-492	U	P	148	492
	Copper	295	ug/Kg	+/-984	U	P	295	984
	Iron	7870	ug/Kg	+/-24600	U	P	7870	24600
	Lead	246	ug/Kg	+/-984	U	P	246	984
	Magnesium	8370	ug/Kg	+/-29500	U	P	8370	29500
	Manganese	197	ug/Kg	+/-984	U	P	197	984
	Potassium	6300	ug/Kg	+/-24600	U	P	6300	24600
	Silver	98.4	ug/Kg	+/-492	U	P	98.4	492
	Sodium	6890	ug/Kg	+/-24600	U	P	6890	24600
	Vanadium	98.4	ug/Kg	+/-492	U	P	98.4	492
	Zinc	444	ug/Kg	+/-984	J	P	325	984
1202006073	Arsenic	0.196	mg/kg	+/-0.982	U	MS	0.196	0.982
	Beryllium	0.0197	mg/kg	+/-0.0982	U	MS	0.0197	0.0982
	Nickel	0.0982	mg/kg	+/-0.393	U	MS	0.0982	0.393
	Selenium	0.491	mg/kg	+/-0.982	U	MS	0.491	0.982
	Thallium	0.0589	mg/kg	+/-0.196	U	MS	0.0589	0.196
	Uranium	0.013	mg/kg	+/-0.0393	U	MS	0.013	0.0393
1202012330	Mercury	-10.3	ug/kg	+/-11	J	AV	3.73	11

METALS
-4-
Interference Check Sample

SDG No: 10-1101

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	506000	ug/L	500000	ug/L	101	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Antimony	0.42	ug/L					12-JAN-10 13:22	011210-1
	Barium	1.73	ug/L					12-JAN-10 13:22	011210-1
	Cadmium	-0.075	ug/L					12-JAN-10 13:22	011210-1
	Calcium	468000	ug/L	500000	ug/L	93.7	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Chromium	1.44	ug/L					12-JAN-10 13:22	011210-1
	Cobalt	-1.47	ug/L					12-JAN-10 13:22	011210-1
	Copper	4.79	ug/L					12-JAN-10 13:22	011210-1
	Iron	183000	ug/L	200000	ug/L	91.5	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Lead	11.2	ug/L					12-JAN-10 13:22	011210-1
	Magnesium	479000	ug/L	500000	ug/L	95.7	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Manganese	0.848	ug/L					12-JAN-10 13:22	011210-1
	Potassium	-151.0	ug/L					12-JAN-10 13:22	011210-1
	Silver	-1.92	ug/L					12-JAN-10 13:22	011210-1
	Sodium	47.0	ug/L					12-JAN-10 13:22	011210-1
	Vanadium	-0.846	ug/L					12-JAN-10 13:22	011210-1
	Zinc	8.33	ug/L					12-JAN-10 13:22	011210-1
ICSAB01									
	Aluminum	536000	ug/L	500000	ug/L	107	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Antimony	550	ug/L	500	ug/L	110	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Barium	506	ug/L	500	ug/L	101	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Cadmium	477	ug/L	500	ug/L	95.4	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Calcium	493000	ug/L	500000	ug/L	98.6	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Chromium	491	ug/L	500	ug/L	98.1	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Cobalt	455	ug/L	500	ug/L	91	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Copper	568	ug/L	500	ug/L	114	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Iron	189000	ug/L	200000	ug/L	94.7	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Lead	489	ug/L	500	ug/L	97.8	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Magnesium	498000	ug/L	500000	ug/L	99.6	80.0 – 120.0	12-JAN-10 13:28	011210-1

METALS

-4-

Interference Check Sample

SDG No: 10-1101

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	490	ug/L	500	ug/L	97.9	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Potassium	5430	ug/L	5000	ug/L	109	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Silver	278	ug/L	250	ug/L	111	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Sodium	5500	ug/L	5000	ug/L	110	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Vanadium	516	ug/L	500	ug/L	103	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Zinc	509	ug/L	500	ug/L	102	80.0 - 120.0	12-JAN-10 13:28	011210-1

METALS
-4-
Interference Check Sample

SDG No: 10-1101

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	Manganese	-0.691	ug/L					13-JAN-10 12:35	011310-2
	Potassium	-195.0	ug/L					13-JAN-10 12:35	011310-2
ICSAB01	Manganese	482	ug/L	500	ug/L	96.4	80.0 - 120.0	13-JAN-10 12:41	011310-2
	Potassium	5430	ug/L	5000	ug/L	109	80.0 - 120.0	13-JAN-10 12:41	011310-2

METALS
-4-
Interference Check Sample

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	-0.78	ug/L					12-JAN-10 20:11	100112-3
	Beryllium	0.056	ug/L					12-JAN-10 20:11	100112-3
	Nickel	3.17	ug/L					12-JAN-10 20:11	100112-3
	Selenium	-0.345	ug/L					12-JAN-10 20:11	100112-3
	Thallium	0.001	ug/L					12-JAN-10 20:11	100112-3
	Uranium	-0.017	ug/L					12-JAN-10 20:11	100112-3
ICSAB01									
	Arsenic	20.3	ug/L	20	ug/L	102	80.0 - 120.0	12-JAN-10 20:17	100112-3
	Beryllium	19.5	ug/L	20	ug/L	97.5	80.0 - 120.0	12-JAN-10 20:17	100112-3
	Nickel	22.4	ug/L	22.7	ug/L	98.8	80.0 - 120.0	12-JAN-10 20:17	100112-3
	Selenium	21.9	ug/L	20	ug/L	110	80.0 - 120.0	12-JAN-10 20:17	100112-3
	Thallium	17.8	ug/L	20	ug/L	88.8	80.0 - 120.0	12-JAN-10 20:17	100112-3
	Uranium	20.5	ug/L	20	ug/L	102	80.0 - 120.0	12-JAN-10 20:17	100112-3

METALS

-4-

Interference Check Sample

SDG No: 10-1101

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.026	ug/L					14-JAN-10 20:56	100114-4
	Nickel	3.27	ug/L					14-JAN-10 20:56	100114-4
ICSAB01	Beryllium	19.2	ug/L	20	ug/L	95.8	80.0 - 120.0	14-JAN-10 21:00	100114-4
	Nickel	22.4	ug/L	22.7	ug/L	98.8	80.0 - 120.0	14-JAN-10 21:00	100114-4

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101 Client ID RE12-10-7841S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202006033

<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>
Aluminum	ug/Kg		26100000		16000000		590000	1710	N/A	P
Antimony	ug/Kg	75-125	53900		1150		59000	89.4		P
Barium	ug/Kg		310000		407000		59000	-165	N/A	P
Cadmium	ug/Kg	75-125	58000		276	J	59000	97.7		P
Calcium	ug/Kg		3080000		2420000		590000	112	N/A	P
Chromium	ug/Kg	75-125	112000		67600		59000	75.7		P
Cobalt	ug/Kg	75-125	64900		22800		59000	71.4	N	P
Copper	ug/Kg	75-125	73300		8500		59000	110		P
Iron	ug/Kg		19200000		16500000		590000	452	N/A	P
Lead	ug/Kg	75-125	74300		22500		59000	87.7		P
Magnesium	ug/Kg		3420000		2400000		590000	173	N/A	P
Manganese	ug/Kg		573000		2150000		59000	-2680	N/A	P
Potassium	ug/Kg		3520000		2490000		590000	174	N/A	P
Silver	ug/Kg	75-125	62000		725		59000	104		P
Sodium	ug/Kg	75-125	749000		99300		590000	110		P
Vanadium	ug/Kg	75-125	94400		35400		59000	100		P
Zinc	ug/Kg	75-125	93800		31400		59000	106		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1101 Client ID RE12-10-7841SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202006035

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		26100000		16000000		563000	1790	N/A	P
Antimony	ug/Kg	75-125	48600		1150		56300	84.1		P
Barium	ug/Kg		309000		407000		56300	-175	N/A	P
Cadmium	ug/Kg	75-125	54200		276	J	56300	95.7		P
Calcium	ug/Kg		3020000		2420000		563000	108	N/A	P
Chromium	ug/Kg	75-125	104000		67600		56300	64.8	N	P
Cobalt	ug/Kg	75-125	60900		22800		56300	67.7	N	P
Copper	ug/Kg	75-125	68800		8500		56300	107		P
Iron	ug/Kg		18000000		16500000		563000	258	N/A	P
Lead	ug/Kg	75-125	69800		22500		56300	83.9		P
Magnesium	ug/Kg		3400000		2400000		563000	177	N/A	P
Manganese	ug/Kg		648000		2150000		56300	-2680	N/A	P
Potassium	ug/Kg		3560000		2490000		563000	189	N/A	P
Silver	ug/Kg	75-125	57900		725		56300	102		P
Sodium	ug/Kg	75-125	673000		99300		563000	102		P
Vanadium	ug/Kg	75-125	90200		35400		56300	97.4		P
Zinc	ug/Kg	75-125	89000		31400		56300	102		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101 Client ID RE12-10-7841S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202006076

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/kg	75-125	6.82		1.24		5.74	97.2		MS
Nickel	mg/kg	75-125	17.9		11.9		5.74	105		MS
Selenium	mg/kg	75-125	1.93		0.581	U	2.3	80.3		MS
Thallium	mg/kg	75-125	10.5		0.303		11.5	88.6		MS
Uranium	mg/kg	75-125	7.13		1.37		5.74	100		MS
Arsenic	mg/kg	75-125	10.8		2.37		9.19	91.8		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1101 Client ID: RE12-10-7841SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202006078

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Nickel	mg/kg	75-125	17.2		11.9		5.83	90.5		MS
Selenium	mg/kg	75-125	1.78		0.581	U	2.33	72.7	N	MS
Thallium	mg/kg	75-125	10.1		0.303		11.7	84.1		MS
Uranium	mg/kg	75-125	6.86		1.37		5.83	94.1		MS
Arsenic	mg/kg	75-125	10.5		2.37		9.33	87.2		MS
Beryllium	mg/kg	75-125	6.55		1.24		5.83	91		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101 Client ID RE12-10-7841S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202012333

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	143		4.21	U	133	106		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1101 Client ID: RE12-10-7841SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 243626001 Spike ID: 1202012335

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	155		4.21	U	139	110		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841D

Sample ID: 243626001

Duplicate ID: 1202006032

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	16000000		16400000		2.57		P
Antimony	ug/Kg	+/-1180	1150		389 U		138		P
Barium	ug/Kg	+/-20%	407000		235000		53.8	*	P
Cadmium	ug/Kg	+/-589	276 J		119 J		79.2		P
Calcium	ug/Kg	+/-20%	2420000		2500000		3.36		P
Chromium	ug/Kg	+/-20%	67600		51700		26.8	*	P
Cobalt	ug/Kg	+/-20%	22800		8060		95.4	*	P
Copper	ug/Kg	+/-20%	8500		8460		.469		P
Iron	ug/Kg	+/-20%	16500000		16100000		2.46		P
Lead	ug/Kg	+/-20%	22500		16200		32.9	*	P
Magnesium	ug/Kg	+/-20%	2400000		2360000		1.89		P
Manganese	ug/Kg	+/-20%	2150000		509000		124	*	P
Potassium	ug/Kg	+/-20%	2490000		2400000		3.89		P
Silver	ug/Kg	+/-589	725		364 J		66.3		P
Sodium	ug/Kg	+/-29500	99300		101000		1.73		P
Vanadium	ug/Kg	+/-20%	35400		32500		8.33		P
Zinc	ug/Kg	+/-20%	31400		29500		6.43		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841SD

Sample ID: 1202006033

Duplicate ID: 1202006035

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	26100000		26100000		.148		P
Antimony	ug/Kg	+/-20	53900		48600		10.5		P
Barium	ug/Kg	+/-20	310000		309000		.44		P
Cadmium	ug/Kg	+/-20	58000		54200		6.79		P
Calcium	ug/Kg	+/-20	3080000		3020000		1.71		P
Chromium	ug/Kg	+/-20	112000		104000		7.58		P
Cobalt	ug/Kg	+/-20	64900		60900		6.32		P
Copper	ug/Kg	+/-20	73300		68800		6.37		P
Iron	ug/Kg	+/-20	19200000		18000000		6.55		P
Lead	ug/Kg	+/-20	74300		69800		6.27		P
Magnesium	ug/Kg	+/-20	3420000		3400000		.711		P
Manganese	ug/Kg	+/-20	573000		648000		12.2		P
Potassium	ug/Kg	+/-20	3520000		3560000		1.11		P
Silver	ug/Kg	+/-20	62000		57900		6.89		P
Sodium	ug/Kg	+/-20	749000		673000		10.7		P
Vanadium	ug/Kg	+/-20	94400		90200		4.54		P
Zinc	ug/Kg	+/-20	93800		89000		5.28		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841D

Sample ID: 243626001

Duplicate ID: 1202006075

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.18	2.37		2.69		12.8		MS
Beryllium	mg/kg	+/-20%	1.24		1.28		3.37		MS
Nickel	mg/kg	+/-20%	11.9		12.5		4.7		MS
Selenium	mg/kg		0.581 U		0.592 U				MS
Thallium	mg/kg	+/-0.237	0.303		0.286		5.78		MS
Uranium	mg/kg	+/-20%	1.37		1.37		.13		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841SD

Sample ID: 1202006076

Duplicate ID: 1202006078

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.8		10.5		2.76		MS
Beryllium	mg/kg	+/-20	6.82		6.55		4.12		MS
Nickel	mg/kg	+/-20	17.9		17.2		4.1		MS
Selenium	mg/kg	+/-20	1.93		1.78		7.99		MS
Thallium	mg/kg	+/-20	10.5		10.1		3.52		MS
Uranium	mg/kg	+/-20	7.13		6.86		3.78		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841D

Sample ID: 243626001

Duplicate ID: 1202012332

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg		4.21 U		4.5 U				AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7841SD

Sample ID: 1202012333

Duplicate ID: 1202012335

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	143		155		8.04		AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1101

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>
1202006031								
	Chromium	ug/Kg	236000	237000		100	80-120	P
	Cobalt	ug/Kg	91200	90800		99.6	81-120	P
	Copper	ug/Kg	174000	190000		109	81-118	P
	Iron	ug/Kg	18000000	19300000		107	51-149	P
	Lead	ug/Kg	86000	82400		95.8	79-121	P
	Magnesium	ug/Kg	4000000	4060000		102	79-122	P
	Manganese	ug/Kg	558000	537000		96.2	81-119	P
	Potassium	ug/Kg	4300000	4210000		97.9	74-127	P
	Silver	ug/Kg	30100	31600		105	66-134	P
	Sodium	ug/Kg	1020000	1020000		100	74-127	P
	Vanadium	ug/Kg	115000	125000		108	79-121	P
	Zinc	ug/Kg	594000	580000		97.6	80-121	P
	Aluminum	ug/Kg	10500000	10100000		95.8	56-144	P
	Antimony	ug/Kg	173000	155000		89.6	71-130	P
	Barium	ug/Kg	198000	190000		96	80-120	P
	Cadmium	ug/Kg	60700	58300		96	81-120	P
	Calcium	ug/Kg	9870000	10100000		102	83-117	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1101

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>
1202006074								
	Arsenic	mg/kg	104	117		112	83-120	MS
	Beryllium	mg/kg	77.6	88.8		114	81.2-126.8	MS
	Nickel	mg/kg	134	160		119	83.3-121.4	MS
	Selenium	mg/kg	286	309		108	80.2-125.9	MS
	Thallium	mg/kg	121	130		107	78-123.2	MS
	Uranium	mg/kg	2.13	2.04		95.6	61.9-130.7	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1101

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>
1202012331	Mercury	ug/kg	5150	5500		107	71.6-128.3	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1101

Client ID RE12-10-7841L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 243626001

Serial Dilution ID: 1202006034

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	140000		141000		.357		10	P
Antimony	10		16.5	U	100			P
Barium	3560		3510		1.54		10	P
Cadmium	2.41	J	5	U	100			P
Calcium	21100		21000		.711		10	P
Chromium	591		580		1.86		10	P
Cobalt	199		194		2.51		10	P
Copper	74.2		68		8.36			P
Iron	144000		146000		1.39		10	P
Lead	197		198		.254		10	P
Magnesium	21000		20700		1.67		10	P
Manganese	3770		3960		4.91		10	P
Potassium	4360		4700		7.8		10	P
Silver	6.33		6.7	J	5.85			P
Sodium	868		795	J	8.41			P
Vanadium	309		301		2.59		10	P
Zinc	275		271		1.45		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1101 Client ID RE12-10-7841L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 243626001 Serial Dilution ID: 1202006077

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	10.2		5.35	J	47.5			MS
Beryllium	5.33		7.25		36			MS
Nickel	51.2		61		19.1	E	10	MS
Selenium	2.5	U	12.5	U				MS
Thallium	1.3		1.62	J	24.6			MS
Uranium	5.91		6.25		5.75			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1101 Client ID RE12-10-7841L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 243626001 Serial Dilution ID: 1202012334

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.068	U	.34	U				AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101

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 937482							
1202006030	MB for batch 937482	MB	S	30-DEC-09	.508g	50mL	
1202006031	LCS for batch 937482	LCS	S	30-DEC-09	.509g	50mL	
1202006033	RE12-10-7841S	MS	S	30-DEC-09	.501g	50mL	
1202006035	RE12-10-7841SD	MSD	S	30-DEC-09	.525g	50mL	
1202006032	RE12-10-7841D	DUP	S	30-DEC-09	.502g	50mL	
243626001	RE12-10-7841	SAMPLE	S	30-DEC-09	.517g	50mL	
243626002	RE12-10-7840	SAMPLE	S	30-DEC-09	.5g	50mL	
243626003	RE12-10-7839	SAMPLE	S	30-DEC-09	.5g	50mL	
243626004	RE12-10-7838	SAMPLE	S	30-DEC-09	.525g	50mL	
243626005	RE12-10-7858	SAMPLE	S	30-DEC-09	.517g	50mL	
243626006	RE12-10-7846	SAMPLE	S	30-DEC-09	.503g	50mL	
243626007	RE12-10-7844	SAMPLE	S	30-DEC-09	.505g	50mL	
243626008	RE12-10-7845	SAMPLE	S	30-DEC-09	.508g	50mL	
243626009	RE12-10-7842	SAMPLE	S	30-DEC-09	.51g	50mL	
243626010	RE12-10-7843	SAMPLE	S	30-DEC-09	.513g	50mL	
243626011	RE12-10-7847	SAMPLE	S	30-DEC-09	.504g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101

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 937506							
1202006073	MB for batch 937506	MB	S	30-DEC-09	.509g	50mL	
1202006074	LCS for batch 937506	LCS	S	30-DEC-09	.506g	50mL	
1202006076	RE12-10-7841S	MS	S	30-DEC-09	.515g	50mL	
1202006078	RE12-10-7841SD	MSD	S	30-DEC-09	.507g	50mL	
1202006075	RE12-10-7841D	DUP	S	30-DEC-09	.5g	50mL	
243626001	RE12-10-7841	SAMPLE	S	30-DEC-09	.509g	50mL	
243626002	RE12-10-7840	SAMPLE	S	30-DEC-09	.511g	50mL	
243626003	RE12-10-7839	SAMPLE	S	30-DEC-09	.501g	50mL	
243626004	RE12-10-7838	SAMPLE	S	30-DEC-09	.51g	50mL	
243626005	RE12-10-7858	SAMPLE	S	30-DEC-09	.516g	50mL	
243626006	RE12-10-7846	SAMPLE	S	30-DEC-09	.512g	50mL	
243626007	RE12-10-7844	SAMPLE	S	30-DEC-09	.519g	50mL	
243626008	RE12-10-7845	SAMPLE	S	30-DEC-09	.5g	50mL	
243626009	RE12-10-7842	SAMPLE	S	30-DEC-09	.509g	50mL	
243626010	RE12-10-7843	SAMPLE	S	30-DEC-09	.502g	50mL	
243626011	RE12-10-7847	SAMPLE	S	30-DEC-09	.505g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101

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 940321							
1202012330	MB for batch 940321	MB	S	12-JAN-10	.547g	30mL	
1202012331	LCS for batch 940321	LCS	S	12-JAN-10	.205g	30mL	
1202012333	RE12-10-7841S	MS	S	12-JAN-10	.532g	30mL	
1202012335	RE12-10-7841SD	MSD	S	12-JAN-10	.509g	30mL	
1202012332	RE12-10-7841D	DUP	S	12-JAN-10	.536g	30mL	
243626001	RE12-10-7841	SAMPLE	S	12-JAN-10	.573g	30mL	
243626002	RE12-10-7840	SAMPLE	S	12-JAN-10	.556g	30mL	
243626003	RE12-10-7839	SAMPLE	S	12-JAN-10	.581g	30mL	
243626004	RE12-10-7838	SAMPLE	S	12-JAN-10	.557g	30mL	
243626005	RE12-10-7858	SAMPLE	S	12-JAN-10	.545g	30mL	
243626006	RE12-10-7846	SAMPLE	S	12-JAN-10	.56g	30mL	
243626007	RE12-10-7844	SAMPLE	S	12-JAN-10	.511g	30mL	
243626008	RE12-10-7845	SAMPLE	S	12-JAN-10	.505g	30mL	
243626009	RE12-10-7842	SAMPLE	S	12-JAN-10	.556g	30mL	
243626010	RE12-10-7843	SAMPLE	S	12-JAN-10	.52g	30mL	
243626011	RE12-10-7847	SAMPLE	S	12-JAN-10	.556g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 12-JAN-10

End Date: 12-JAN-10

Client Sdg: 10-1101

Method P

Data File: 011210-1

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	12:29	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	12:36		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	12:42	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	12:49	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	12:56	X					X					X		X							X				
ICV01	1	13:01	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	13:08	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	13:15	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	13:22	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	13:28	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	13:34	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	13:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	13:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	13:54	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR03	1	14:12	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	14:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	14:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	14:33																								
ZZZZZZ	1	14:40																								
ZZZZZZ	1	14:47																								
ZZZZZZ	1	14:54																								
ZZZZZZ	1	15:00																								
ZZZZZZ	1	15:07																								
CCV03	1	15:14	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	15:21	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	15:28																								
ZZZZZZ	1	15:35																								
ZZZZZZ	1	15:42																								
ZZZZZZ	1	15:49																								
ZZZZZZ	1	15:56																								
ZZZZZZ	5	16:02																								
ZZZZZZ	1	16:09																								
ZZZZZZ	1	16:16																								
ZZZZZZ	1	16:23																								
CCV04	1	16:37	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	16:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	16:51																								
ZZZZZZ	1	16:58																								
ZZZZZZ	1	17:05																								
ZZZZZZ	1	17:12																								

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
243626004	1	21:57	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626005	1	22:04	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626006	1	22:11	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626007	1	22:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626008	1	22:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626009	1	22:33	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626010	1	22:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
243626011	1	22:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV10	1	22:54	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	23:01	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: OPTIMA3

Start Date: 13-JAN-10

End Date: 14-JAN-10

Client Sdg: 10-1101

Method P

Data File: 011310-2

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	11:42														X			X							
S0.1	1	11:49														X			X							
S0.5	1	11:55														X			X							
SCAL	1	12:02														X			X							
S10	1	12:09																								
ICV01	1	12:15														X			X							
ICB01	1	12:22														X			X							
PQL01	1	12:28														X			X							
ICSA01	1	12:35														X			X							
ICSAB01	1	12:41														X			X							
LR01	1	12:47														X			X							
LR02	1	12:53														X			X							
ZZZZZZ	1	13:00																								
ZZZZZZ	1	13:07																								
CCV01	1	13:15														X			X							
CCB01	1	13:22														X			X							
LR03	1	13:29														X			X							
CCV02	1	13:36														X			X							
CCB02	1	13:43														X			X							
ZZZZZZ	1	13:49																								
ZZZZZZ	1	13:56																								
ZZZZZZ	1	14:03																								
ZZZZZZ	1	14:10																								
ZZZZZZ	1	14:16																								
ZZZZZZ	1	14:23																								
ZZZZZZ	1	14:30																								
CCV03	1	14:37														X			X							
CCB03	1	14:44														X			X							
CCV04	1	15:05														X			X							
CCB04	1	15:12														X			X							
ZZZZZZ	1	15:19																								
ZZZZZZ	1	15:26																								
ZZZZZZ	1	15:32																								
ZZZZZZ	1	15:39																								
ZZZZZZ	1	15:46																								
ZZZZZZ	5	15:53																								
CCV05	1	16:00														X			X							
PQL02	1	16:07														X			X							
CCB05	1	16:14														X			X							
ZZZZZZ	1	16:20																								

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	21:05																								
ZZZZZZ	1	21:12																								
ZZZZZZ	1	21:18																								
ZZZZZZ	1	21:25																								
ZZZZZZ	1	21:33																								
ZZZZZZ	1	21:40																								
ZZZZZZ	5	21:47																								
CCV10	1	21:53														X			X							
CCB10	1	22:00														X			X							
ZZZZZZ	1	22:07																								
ZZZZZZ	1	22:14																								
ZZZZZZ	1	22:20																								
ZZZZZZ	1	22:27																								
ZZZZZZ	1	22:34																								
ZZZZZZ	1	22:41																								
ZZZZZZ	5	22:48																								
ZZZZZZ	1	22:55																								
ZZZZZZ	1	23:02																								
CCV11	1	23:09														X			X							
CCB11	1	23:16														X			X							
ZZZZZZ	1	23:23																								
ZZZZZZ	1	23:30																								
ZZZZZZ	1	23:37																								
ZZZZZZ	1	23:45																								
ZZZZZZ	1	23:52																								
ZZZZZZ	1	23:59																								
ZZZZZZ	1	00:06																								
ZZZZZZ	1	00:13																								
ZZZZZZ	1	00:20																								
CCV12	1	00:27														X			X							
CCB12	1	00:34														X			X							
ZZZZZZ	1	00:41																								
ZZZZZZ	1	00:48																								
ZZZZZZ	1	00:55																								
ZZZZZZ	1	01:02																								
ZZZZZZ	1	01:09																								
ZZZZZZ	1	01:16																								
ZZZZZZ	1	01:23																								
ZZZZZZ	1	01:30																								
CCV13	1	01:37														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
ZZZZZZ	1	06:19																								
ZZZZZZ	1	06:26																								
ZZZZZZ	1	06:33																								
ZZZZZZ	1	06:40																								
ZZZZZZ	1	06:47																								
ZZZZZZ	1	06:54																								
ZZZZZZ	5	07:01																								
CCV18	1	07:08														X			X							
PQL07	1	07:15														X			X							
CCB18	1	07:22														X			X							
ZZZZZZ	1	07:36																								
ZZZZZZ	1	07:43																								
ZZZZZZ	1	07:50																								
ZZZZZZ	1	07:56																								
ZZZZZZ	1	08:03																								
ZZZZZZ	1	08:10																								
ZZZZZZ	1	08:17																								
ZZZZZZ	5	08:24																								
ZZZZZZ	10	08:31																								
ZZZZZZ	50	08:37																								
CCV19	1	08:44														X			X							
PQL08	1	08:51														X			X							
CCB19	1	08:58														X			X							
243626001	5	09:05														X			X							
1202006032	5	09:12														X			X							
1202006033	5	09:19														X			X							
1202006035	5	09:26														X			X							
1202006034	25	09:33														X			X							
CCV20	1	09:40														X			X							
CCB20	1	09:47														X			X							

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 13-JAN-10

End Date: 13-JAN-10

Client Sdg: 10-1101

Method AV

Data File: 011310S1-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:44															X									
S0.2	1	09:46															X									
S0.5	1	09:48															X									
S2.0	1	09:50															X									
S5.0	1	09:52															X									
S10	1	09:54															X									
ICV01	1	09:56															X									
ICB01	1	09:58															X									
CRDL01	1	10:00															X									
CCV01	1	10:02															X									
CCB01	1	10:04															X									
ZZZZZZ	1	10:08																								
ZZZZZZ	1	10:10																								
ZZZZZZ	1	10:12																								
ZZZZZZ	1	10:14																								
ZZZZZZ	1	10:16																								
ZZZZZZ	1	10:18																								
ZZZZZZ	1	10:20																								
ZZZZZZ	1	10:22																								
ZZZZZZ	10	10:24																								
CCV02	1	10:26															X									
CCB02	1	10:28															X									
ZZZZZZ	1	10:30																								
ZZZZZZ	1	10:32																								
ZZZZZZ	1	10:34																								
ZZZZZZ	1	10:36																								
ZZZZZZ	5	10:38																								
ZZZZZZ	1	10:40																								
ZZZZZZ	1	10:42																								
ZZZZZZ	1	10:44																								
ZZZZZZ	1	10:46																								
ZZZZZZ	1	10:48																								
CCV03	1	10:50															X									
CCB03	1	10:52															X									
ZZZZZZ	1	10:54																								
ZZZZZZ	1	10:56																								
ZZZZZZ	1	10:58																								
ZZZZZZ	1	11:00																								
ZZZZZZ	1	11:02																								
1202012330	1	11:04															X									

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
I202012331	J0	11:06
243626001	1	11:08
I202012332	1	11:10
I202012333	1	11:12
CCV04	1	11:14
CCB04	1	11:16
I202012335	1	11:18
I202012334	5	11:20
243626002	1	11:22
243626003	1	11:24
243626004	1	11:26
243626005	1	11:28
243626006	1	11:30
243626007	1	11:32
243626008	1	11:34
243626009	1	11:36
CCV05	1	11:38
CCB05	1	11:40
243626010	1	11:42
243626011	1	11:43
ZZZZZ	1	11:45
CCV06	1	11:49
CCB06	1	11:51

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 12-JAN-10

End Date: 12-JAN-10

Client Sdg: 10-1101

Method MS

Data File: 100112-3

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	19:34			X		X											X	X	X			X	X		
S10	1	19:40			X		X											X	X	X			X	X		
S100	1	19:46			X		X											X	X	X			X	X		
ICV01	1	19:52			X		X											X	X	X			X	X		
ICB01	1	19:59			X		X											X	X	X			X	X		
CRDL01	1	20:05			X		X											X	X	X			X	X		
ICSA01	1	20:11			X		X											X	X	X			X	X		
ICSAB01	1	20:17			X		X											X	X	X			X	X		
CCV01	1	20:23			X		X											X	X	X			X	X		
CCB01	1	20:30			X		X											X	X	X			X	X		
LR01	1	20:36			X		X											X	X	X			X	X		
CCV02	1	20:42			X		X											X	X	X			X	X		
CCB02	1	20:48			X		X											X	X	X			X	X		
1202006073	2	20:54			X														X	X			X	X		
1202006074	40	21:01			X														X	X			X	X		
243626001	2	21:07			X														X	X			X	X		
1202006075	2	21:13			X														X	X			X	X		
1202006076	2	21:19			X														X	X			X	X		
CCV03	1	21:26			X		X											X	X	X			X	X		
CCB03	1	21:32			X		X											X	X	X			X	X		
1202006078	2	21:38			X														X	X			X	X		
1202006077	10	21:44			X														X	X			X	X		
243626002	2	21:51			X		X											X	X	X			X	X		
243626003	2	21:57			X		X											X	X	X			X	X		
243626004	2	22:03			X		X											X	X	X			X	X		
243626005	2	22:09			X		X											X	X	X			X	X		
CCV04	1	22:16			X		X											X	X	X			X	X		
CCB04	1	22:22			X		X											X	X	X			X	X		
243626006	2	22:28			X		X											X	X	X			X	X		
243626007	2	22:34			X		X											X	X	X			X	X		
243626008	2	22:40			X		X											X	X	X			X	X		
243626009	2	22:47			X		X											X	X	X			X	X		
243626010	2	22:53			X		X											X	X	X			X	X		
243626011	2	22:59			X		X											X	X	X			X	X		
CCV05	1	23:05			X		X											X	X	X			X	X		
CCB05	1	23:12			X		X											X	X	X			X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 14-JAN-10

End Date: 14-JAN-10

Client Sdg: 10-1101

Method MS

Data File: 100114-4

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	20:34					X											X								
S10	1	20:38					X											X								
S100	1	20:41					X											X								
ICV01	1	20:45					X											X								
ICB01	1	20:49					X											X								
CRDL01	1	20:52					X											X								
ICSA01	1	20:56					X											X								
ICSAB01	1	21:00					X											X								
CCV01	1	21:03					X											X								
CCB01	1	21:07					X											X								
1202006073	2	21:11					X											X								
1202006074	40	21:14					X											X								
CCV02	1	21:18					X											X								
CCB02	1	21:21					X											X								
243626001	2	21:25					X											X								
1202006075	2	21:29					X											X								
1202006076	2	21:32					X											X								
1202006078	2	21:36					X											X								
1202006077	10	21:40					X											X								
CCV03	1	21:43					X											X								
CCB03	1	21:47					X											X								

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1101

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. 10-1101

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1101

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: 10-1101

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02738	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	-0.44940	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	-0.22121	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	-0.33886	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	-0.13648	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05571	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	0.19671	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.02739	0.00000	0.00000	0.00000	0.00000
Tin	189.927	-0.00058	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: **10-1101**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	24.5549	0.00000	0.00000
Arsenic	188.979	0.52529	0.00000	-0.67113	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	2.54031	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	0.38952	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	-31.5465	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.78023
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	0.63859	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	160.41
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	5.22870	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.35099	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	1.93161	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.39273	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.19810

METALS

-11-

Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	42.8126
Antimony	206.836	-0.01635	0.00000	0.00000	0.00000	-22.2146
Arsenic	188.979	-0.21271	0.00000	0.00000	0.00000	1.34645
Barium	233.527	-0.03709	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.13266	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.09998	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01788	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01425	0.00000	0.00000	0.00000	-2.64232
Copper	324.752	-0.05101	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09069	0.00000	0.00000	0.00000	-2.44485
Magnesium	279.077	0.85543	0.00000	0.00000	0.00000	-20.2401
Manganese	257.61	-0.09972	0.00000	0.01862	0.00000	0.00000
Molybdenum	202.031	-0.07094	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80633	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	-0.03176	0.00000	0.01823	12.4291	-3.60863
Selenium	196.026	-3.00009	0.00000	0.00000	0.00000	-3.17982
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	17.4444
Silver	328.068	-0.31825	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-5.85948	0.00000
Tin	189.927	-0.01337	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.12581	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.15211	0.00000	-0.02256	0.00000	-14.2921
Zinc	213.857	0.09548	0.00000	0.03423	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1101**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silicon
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	-0.64279	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	0.44040	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.33191	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	6.38465	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Silver	Strontium	Sulfur	Thallium	Tin
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	-17.4077
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	-13.8713
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	3.10491
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Titanium	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	2.73145	0.00000	-2.31857	0.00000
Arsenic	188.979	-8.38419	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	-2.24883	0.00000
Beryllium	313.107	-1.96555	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.32181	-1.76281	0.00000
Cobalt	228.616	2.12623	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.85359	-3.92851	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-7.67419	0.00000	2.18873	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.44145	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	1.10141	-1.94183	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1101

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09

**METALS
-12-
Linear Ranges**

SDG NO. 10-1101

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

Analyte	Integration Time (msec)	LDR	Units	Effective Date
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09
Aluminum	1	50000	ug/L	01-NOV-09

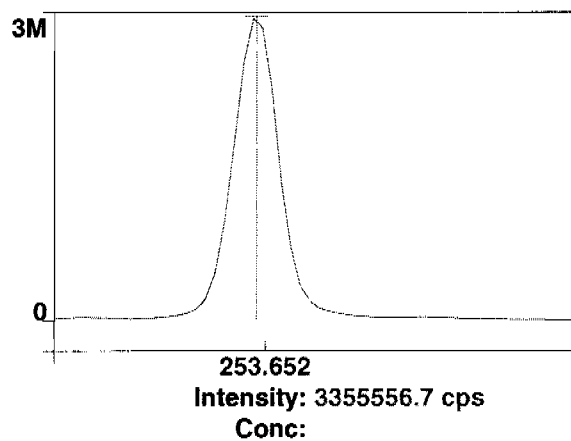
Raw Data

Method: Hg_ReAlign
Result: 011910

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

=====
Analysis Begun

Start Time: 1/12/2010 12:29:17

Plasma On Time: 1/11/2010 06:15:31

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\011210.sif

Batch ID:

Results Data Set: 011210

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 1/12/2010 12:29:19

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	5152.3	5152.3	101 %		12:31:11
1	Y RADIAL	5561.8	5561.8	101.0 %		12:31:11
1	Al 396.153Radial†	-17.4	-17.3	[0.00] ug/L		12:31:11
1	Ca 317.933Radial†	15.9	15.8	[0.00] ug/L		12:31:31
1	Fe 238.204 Radial†	13.1	13.0	[0.00] ug/L		12:31:31
1	K 766.490 Radial†	2487.0	2471.8	[0.00] ug/L		12:31:11
1	Mg 279.077 IEC†	3.5	3.5	[0.00] ug/L		12:31:31
1	Na 589.592 Radial†	-1340.5	-1332.4	[0.00] ug/L		12:31:11
1	Sr 421.552†	43.2	42.9	[0.00] ug/L		12:31:11
1	Sc 361.383	853292.3	853292.3	99.443 %		12:32:28
1	Y 371.029	722139.2	722139.2	99.241 %		12:32:28
1	Ag 328.068†	372.1	374.2	[0.00] ug/L		12:32:28
1	As 188.979†	-22.2	-22.4	[0.00] ug/L		12:32:48
1	B 249.677†	-606.5	-609.9	[0.00] ug/L		12:32:48
1	Ba 233.527†	-17.0	-17.1	[0.00] ug/L		12:32:48
1	Be 313.107†	-4487.2	-4512.3	[0.00] ug/L		12:32:28
1	Cd 226.502†	-210.7	-211.8	[0.00] ug/L		12:32:48
1	Co 228.616†	-79.2	-79.6	[0.00] ug/L		12:32:48
1	Cr 267.716†	79.2	79.7	[0.00] ug/L		12:32:48
1	Cu 324.752†	6369.9	6405.6	[0.00] ug/L		12:32:28
1	Mn 257.610†	444.3	446.8	[0.00] ug/L		12:32:48
1	Mo 202.031†	23.5	23.7	[0.00] ug/L		12:32:48
1	Ni 231.604†	61.4	61.7	[0.00] ug/L		12:32:48
1	P 214.914†	223.8	225.0	[0.00] ug/L		12:32:48
1	Pb 220.353†	-75.1	-75.6	[0.00] ug/L		12:32:48
1	S 181.975 Axial†	44.9	45.2	[0.00] ug/L		12:32:48
1	Sb 206.836†	32.0	32.2	[0.00] ug/L		12:32:48
1	Se 196.026†	-41.9	-42.1	[0.00] ug/L		12:32:48
1	Si 251.611†	467.0	469.6	[0.00] ug/L		12:32:48
1	Sn 189.927†	5.0	5.0	[0.00] ug/L		12:32:48
1	Ti 334.940†	-1279.5	-1286.7	[0.00] ug/L		12:32:28
1	Tl 190.801†	-34.2	-34.4	[0.00] ug/L		12:32:48
1	U 409.014†	-1915.4	-1926.1	[0.00] ug/L		12:32:28
1	V 292.402†	-1335.8	-1343.3	[0.00] ug/L		12:32:28
1	Zn 213.857†	614.5	618.0	[0.00] ug/L		12:32:48
1	SiO2†	454.9	457.5	[0.00] ug/L		12:33:44
2	Sc Radial	5085.0	5085.0	99.3 %		12:31:36
2	Y RADIAL	5464.8	5464.8	99.26 %		12:31:36
2	Al 396.153Radial†	-1.6	-1.6	[0.00] ug/L		12:31:36
2	Ca 317.933Radial†	19.1	19.2	[0.00] ug/L		12:31:56
2	Fe 238.204 Radial†	11.7	11.8	[0.00] ug/L		12:31:56
2	K 766.490 Radial†	2621.8	2640.3	[0.00] ug/L		12:31:36
2	Mg 279.077 IEC†	1.2	1.2	[0.00] ug/L		12:31:56
2	Na 589.592 Radial†	-1287.3	-1296.4	[0.00] ug/L		12:31:36
2	Sr 421.552†	-4.5	-4.5	[0.00] ug/L		12:31:36
2	Sc 361.383	864012.3	864012.3	100.69 %		12:32:53
2	Y 371.029	733392.9	733392.9	100.79 %		12:32:53

2	Ag 328.068†	342.6	340.2	[0.00]	ug/L	12:32:53
2	As 188.979†	-24.3	-24.1	[0.00]	ug/L	12:33:13
2	B 249.677†	-619.9	-615.7	[0.00]	ug/L	12:33:13
2	Ba 233.527†	-8.0	-8.0	[0.00]	ug/L	12:33:13
2	Be 313.107†	-4468.0	-4437.2	[0.00]	ug/L	12:32:53
2	Cd 226.502†	-192.1	-190.8	[0.00]	ug/L	12:33:13
2	Co 228.616†	-76.4	-75.8	[0.00]	ug/L	12:33:13
2	Cr 267.716†	91.9	91.3	[0.00]	ug/L	12:33:13
2	Cu 324.752†	6472.0	6427.5	[0.00]	ug/L	12:32:53
2	Mn 257.610†	426.6	423.7	[0.00]	ug/L	12:33:13
2	Mo 202.031†	19.1	18.9	[0.00]	ug/L	12:33:13
2	Ni 231.604†	65.0	64.5	[0.00]	ug/L	12:33:13
2	P 214.914†	211.9	210.4	[0.00]	ug/L	12:33:13
2	Pb 220.353†	-49.4	-49.0	[0.00]	ug/L	12:33:13
2	S 181.975 Axial†	47.5	47.1	[0.00]	ug/L	12:33:13
2	Sb 206.836†	33.9	33.6	[0.00]	ug/L	12:33:13
2	Se 196.026†	-28.5	-28.3	[0.00]	ug/L	12:33:13
2	Si 251.611†	462.9	459.7	[0.00]	ug/L	12:33:13
2	Sn 189.927†	-2.3	-2.3	[0.00]	ug/L	12:33:13
2	Ti 334.940†	-1341.3	-1332.0	[0.00]	ug/L	12:32:53
2	Tl 190.801†	-36.4	-36.2	[0.00]	ug/L	12:33:13
2	U 409.014†	-1655.6	-1644.2	[0.00]	ug/L	12:32:53
2	V 292.402†	-1351.5	-1342.2	[0.00]	ug/L	12:32:53
2	Zn 213.857†	635.0	630.6	[0.00]	ug/L	12:33:13
2	SiO2†	442.7	439.7	[0.00]	ug/L	12:33:49
3	Sc Radial	5125.5	5125.5	100	%	12:32:01
3	Y RADIAL	5489.7	5489.7	99.71	%	12:32:01
3	Al 396.153Radial†	0.4	0.4	[0.00]	ug/L	12:32:01
3	Ca 317.933Radial†	22.6	22.6	[0.00]	ug/L	12:32:21
3	Fe 238.204 Radial†	9.9	9.9	[0.00]	ug/L	12:32:21
3	K 766.490 Radial†	2424.7	2422.5	[0.00]	ug/L	12:32:01
3	Mg 279.077 IEC†	4.5	4.5	[0.00]	ug/L	12:32:21
3	Na 589.592 Radial†	-1299.1	-1297.9	[0.00]	ug/L	12:32:01
3	Sr 421.552†	-9.2	-9.2	[0.00]	ug/L	12:32:01
3	Sc 361.383	856910.1	856910.1	99.865	%	12:33:19
3	Y 371.029	727459.0	727459.0	99.972	%	12:33:19
3	Ag 328.068†	356.3	356.8	[0.00]	ug/L	12:33:19
3	As 188.979†	-25.3	-25.4	[0.00]	ug/L	12:33:39
3	B 249.677†	-618.9	-619.8	[0.00]	ug/L	12:33:39
3	Ba 233.527†	-0.6	-0.6	[0.00]	ug/L	12:33:39
3	Be 313.107†	-4468.4	-4474.4	[0.00]	ug/L	12:33:19
3	Cd 226.502†	-202.0	-202.3	[0.00]	ug/L	12:33:39
3	Co 228.616†	-76.2	-76.3	[0.00]	ug/L	12:33:39
3	Cr 267.716†	65.8	65.9	[0.00]	ug/L	12:33:39
3	Cu 324.752†	6365.6	6374.2	[0.00]	ug/L	12:33:19
3	Mn 257.610†	418.4	418.9	[0.00]	ug/L	12:33:39
3	Mo 202.031†	22.3	22.3	[0.00]	ug/L	12:33:39
3	Ni 231.604†	74.7	74.8	[0.00]	ug/L	12:33:39
3	P 214.914†	225.2	225.5	[0.00]	ug/L	12:33:39
3	Pb 220.353†	-61.9	-62.0	[0.00]	ug/L	12:33:39
3	S 181.975 Axial†	39.2	39.3	[0.00]	ug/L	12:33:39
3	Sb 206.836†	34.4	34.5	[0.00]	ug/L	12:33:39
3	Se 196.026†	-25.7	-25.7	[0.00]	ug/L	12:33:39
3	Si 251.611†	452.0	452.6	[0.00]	ug/L	12:33:39
3	Sn 189.927†	2.3	2.3	[0.00]	ug/L	12:33:39
3	Ti 334.940†	-1381.8	-1383.7	[0.00]	ug/L	12:33:19
3	Tl 190.801†	-31.6	-31.7	[0.00]	ug/L	12:33:39
3	U 409.014†	-2018.6	-2021.4	[0.00]	ug/L	12:33:19
3	V 292.402†	-1391.8	-1393.7	[0.00]	ug/L	12:33:19
3	Zn 213.857†	624.5	625.4	[0.00]	ug/L	12:33:39
3	SiO2†	479.3	479.9	[0.00]	ug/L	12:33:54

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	858071.5	5453.55	0.64%	100.00	%
Sc Radial	5120.9	33.88	0.66%	100	%
Y 371.029	727663.7	5629.65	0.77%	100.00	%
Y RADIAL	5505.4	50.37	0.91%	100.0	%
Ag 328.068†	357.1	17.00	4.76%	[0.00]	ug/L

Al 396.153Radial†	-6.2	9.68	156.59%	[0.00]	ug/L
As 188.979†	-23.9	1.50	6.28%	[0.00]	ug/L
B 249.677†	-615.1	4.97	0.81%	[0.00]	ug/L
Ba 233.527†	-8.6	8.28	96.48%	[0.00]	ug/L
Be 313.107†	-4474.7	37.53	0.84%	[0.00]	ug/L
Ca 317.933Radial†	19.2	3.41	17.76%	[0.00]	ug/L
Cd 226.502†	-201.6	10.55	5.23%	[0.00]	ug/L
Co 228.616†	-77.2	2.06	2.67%	[0.00]	ug/L
Cr 267.716†	79.0	12.72	16.11%	[0.00]	ug/L
Cu 324.752†	6402.4	26.77	0.42%	[0.00]	ug/L
Fe 238.204 Radial†	11.6	1.59	13.77%	[0.00]	ug/L
K 766.490 Radial†	2511.5	114.19	4.55%	[0.00]	ug/L
Mg 279.077 IEC†	3.0	1.70	55.71%	[0.00]	ug/L
Mn 257.610†	429.8	14.89	3.47%	[0.00]	ug/L
Mo 202.031†	21.6	2.44	11.30%	[0.00]	ug/L
Na 589.592 Radial†	-1308.9	20.34	1.55%	[0.00]	ug/L
Ni 231.604†	67.0	6.91	10.31%	[0.00]	ug/L
P 214.914†	220.3	8.56	3.89%	[0.00]	ug/L
Pb 220.353†	-62.2	13.27	21.33%	[0.00]	ug/L
S 181.975 Axial†	43.9	4.08	9.30%	[0.00]	ug/L
Sb 206.836†	33.4	1.15	3.43%	[0.00]	ug/L
Se 196.026†	-32.0	8.83	27.55%	[0.00]	ug/L
Si 251.611†	460.7	8.52	1.85%	[0.00]	ug/L
Sn 189.927†	1.7	3.70	222.98%	[0.00]	ug/L
Sr 421.552†	9.7	28.80	295.48%	[0.00]	ug/L
Ti 334.940†	-1334.1	48.54	3.64%	[0.00]	ug/L
Tl 190.801†	-34.1	2.28	6.69%	[0.00]	ug/L
U 409.014†	-1863.9	196.15	10.52%	[0.00]	ug/L
V 292.402†	-1359.7	29.45	2.17%	[0.00]	ug/L
Zn 213.857†	624.7	6.34	1.01%	[0.00]	ug/L
SiO2†	459.0	20.15	4.39%	[0.00]	ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 1/12/2010 12:36:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	4965.9	4965.9	97.0	%	12:38:02
1	Y RADIAL	5335.2	5335.2	96.91	%	12:38:02
1	K 766.490 Radial†	7941.2	5677.6	[1000]	ug/L	12:37:57
1	Sr 421.552†	14775.2	15226.8	[100]	ug/L	12:38:02
1	Sc 361.383	830675.3	830675.3	96.807	%	12:38:29
1	Y 371.029	701666.3	701666.3	96.427	%	12:38:29
1	Ag 328.068†	21871.2	22235.5	[100]	ug/L	12:38:29
1	As 188.979†	203.3	233.9	[100]	ug/L	12:38:49
1	B 249.677†	3660.8	4396.6	[100]	ug/L	12:38:29
1	Ba 233.527†	12920.1	13354.8	[100]	ug/L	12:38:29
1	Be 313.107†	257874.4	270853.9	[100]	ug/L	12:38:29
1	Cd 226.502†	8881.5	9376.0	[100]	ug/L	12:38:29
1	Co 228.616†	4770.5	5005.1	[100]	ug/L	12:38:49
1	Cr 267.716†	9051.6	9271.1	[100]	ug/L	12:38:29
1	Cu 324.752†	39056.8	33942.5	[100]	ug/L	12:38:29
1	Mn 257.610†	92061.8	94668.3	[100]	ug/L	12:38:29
1	Mo 202.031†	1430.8	1456.4	[100]	ug/L	12:38:49
1	Ni 231.604†	4043.9	4110.2	[100]	ug/L	12:38:49
1	P 214.914†	1031.3	845.0	[500]	ug/L	12:38:49
1	Pb 220.353†	748.0	834.8	[100]	ug/L	12:38:49
1	S 181.975 Axial†	189.8	152.2	[200]	ug/L	12:38:49
1	Sb 206.836†	312.2	289.1	[100]	ug/L	12:38:49
1	Se 196.026†	137.0	173.6	[100]	ug/L	12:38:49
1	Si 251.611†	15797.3	15857.7	[500]	ug/L	12:38:29
1	Sn 189.927†	561.7	578.6	[100]	ug/L	12:38:49
1	Ti 334.940†	59873.1	63181.9	[100]	ug/L	12:38:29
1	Tl 190.801†	292.2	335.9	[100]	ug/L	12:38:49
1	U 409.014†	1586.9	3503.1	[100]	ug/L	12:38:29
1	V 292.402†	13179.8	14974.2	[100]	ug/L	12:38:29
1	Zn 213.857†	11228.2	10973.9	[100]	ug/L	12:38:29
1	SiO2†	16145.6	16219.0	[1069.5]	ug/L	12:39:45
2	Sc Radial	5017.1	5017.1	98.0	%	12:38:12
2	Y RADIAL	5393.8	5393.8	97.97	%	12:38:12
2	K 766.490 Radial†	7968.7	5621.9	[1000]	ug/L	12:38:07
2	Sr 421.552†	14907.3	15205.9	[100]	ug/L	12:38:12
2	Sc 361.383	847146.2	847146.2	98.727	%	12:38:54
2	Y 371.029	713989.1	713989.1	98.121	%	12:38:54
2	Ag 328.068†	22274.2	22204.4	[100]	ug/L	12:38:54
2	As 188.979†	207.4	234.0	[100]	ug/L	12:39:14
2	B 249.677†	3703.9	4366.8	[100]	ug/L	12:38:54
2	Ba 233.527†	13155.6	13333.9	[100]	ug/L	12:38:54
2	Be 313.107†	262797.3	270661.2	[100]	ug/L	12:38:54
2	Cd 226.502†	9031.6	9349.8	[100]	ug/L	12:38:54
2	Co 228.616†	4791.3	4930.3	[100]	ug/L	12:39:14
2	Cr 267.716†	9227.6	9267.6	[100]	ug/L	12:38:54
2	Cu 324.752†	40059.8	34174.0	[100]	ug/L	12:38:54
2	Mn 257.610†	94098.4	94882.2	[100]	ug/L	12:38:54
2	Mo 202.031†	1441.8	1438.8	[100]	ug/L	12:39:14
2	Ni 231.604†	4052.0	4037.2	[100]	ug/L	12:39:14
2	P 214.914†	1038.8	831.9	[500]	ug/L	12:39:14
2	Pb 220.353†	781.5	853.8	[100]	ug/L	12:39:14
2	S 181.975 Axial†	183.5	142.0	[200]	ug/L	12:39:14
2	Sb 206.836†	325.7	296.5	[100]	ug/L	12:39:14
2	Se 196.026†	121.5	155.1	[100]	ug/L	12:39:14
2	Si 251.611†	16155.0	15902.7	[500]	ug/L	12:38:54
2	Sn 189.927†	583.6	589.5	[100]	ug/L	12:39:14
2	Ti 334.940†	61190.2	63313.5	[100]	ug/L	12:38:54
2	Tl 190.801†	288.7	326.5	[100]	ug/L	12:39:14
2	U 409.014†	1747.5	3634.0	[100]	ug/L	12:38:54

2	V 292.402†	13335.0	14866.7	[100]	ug/L	12:38:54
2	Zn 213.857†	11395.6	10917.9	[100]	ug/L	12:38:54
2	SiO2†	16023.8	15771.4	[1069.5]	ug/L	12:39:50
3	Sc Radial	5038.6	5038.6	98.4	%	12:38:22
3	Y RADIAL	5396.6	5396.6	98.02	%	12:38:22
3	K 766.490 Radial†	7896.9	5514.4	[1000]	ug/L	12:38:17
3	Sr 421.552†	15115.8	15353.1	[100]	ug/L	12:38:22
3	Sc 361.383	839954.8	839954.8	97.889	%	12:39:20
3	Y 371.029	708260.3	708260.3	97.333	%	12:39:20
3	Ag 328.068†	22077.1	22196.2	[100]	ug/L	12:39:20
3	As 188.979†	210.6	239.1	[100]	ug/L	12:39:40
3	B 249.677†	3716.3	4411.6	[100]	ug/L	12:39:20
3	Ba 233.527†	13010.8	13300.0	[100]	ug/L	12:39:20
3	Be 313.107†	261053.3	271158.6	[100]	ug/L	12:39:20
3	Cd 226.502†	8913.5	9307.4	[100]	ug/L	12:39:20
3	Co 228.616†	4825.4	5006.7	[100]	ug/L	12:39:40
3	Cr 267.716†	9169.0	9287.8	[100]	ug/L	12:39:20
3	Cu 324.752†	39580.7	34032.0	[100]	ug/L	12:39:20
3	Mn 257.610†	93356.1	94939.9	[100]	ug/L	12:39:20
3	Mo 202.031†	1443.1	1452.6	[100]	ug/L	12:39:40
3	Ni 231.604†	4074.4	4095.2	[100]	ug/L	12:39:40
3	P 214.914†	1041.6	843.7	[500]	ug/L	12:39:40
3	Pb 220.353†	761.2	839.8	[100]	ug/L	12:39:40
3	S 181.975 Axial†	185.0	145.1	[200]	ug/L	12:39:40
3	Sb 206.836†	315.3	288.6	[100]	ug/L	12:39:40
3	Se 196.026†	132.1	167.0	[100]	ug/L	12:39:40
3	Si 251.611†	15986.8	15870.9	[500]	ug/L	12:39:20
3	Sn 189.927†	572.9	583.6	[100]	ug/L	12:39:40
3	Ti 334.940†	60890.5	63538.0	[100]	ug/L	12:39:20
3	Tl 190.801†	310.5	351.3	[100]	ug/L	12:39:40
3	U 409.014†	1639.2	3538.5	[100]	ug/L	12:39:20
3	V 292.402†	13215.0	14859.8	[100]	ug/L	12:39:20
3	Zn 213.857†	11325.5	10945.1	[100]	ug/L	12:39:20
3	SiO2†	16169.6	16059.3	[1069.5]	ug/L	12:39:55

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	839258.8	8257.45	0.98%	97.808	%
Sc Radial	5007.2	37.35	0.75%	97.8	%
Y 371.029	707971.9	6166.49	0.87%	97.294	%
Y RADIAL	5375.2	34.70	0.65%	97.63	%
Ag 328.068†	22212.0	20.72	0.09%	[100]	ug/L
As 188.979†	235.7	2.94	1.25%	[100]	ug/L
B 249.677†	4391.7	22.78	0.52%	[100]	ug/L
Ba 233.527†	13329.5	27.66	0.21%	[100]	ug/L
Be 313.107†	270891.2	250.78	0.09%	[100]	ug/L
Cd 226.502†	9344.4	34.62	0.37%	[100]	ug/L
Co 228.616†	4980.7	43.63	0.88%	[100]	ug/L
Cr 267.716†	9275.5	10.76	0.12%	[100]	ug/L
Cu 324.752†	34049.5	116.76	0.34%	[100]	ug/L
K 766.490 Radial†	5604.6	82.95	1.48%	[1000]	ug/L
Mn 257.610†	94830.1	143.09	0.15%	[100]	ug/L
Mo 202.031†	1449.3	9.25	0.64%	[100]	ug/L
Ni 231.604†	4080.9	38.55	0.94%	[100]	ug/L
P 214.914†	840.2	7.26	0.86%	[500]	ug/L
Pb 220.353†	842.8	9.82	1.17%	[100]	ug/L
S 181.975 Axial†	146.4	5.23	3.57%	[200]	ug/L
Sb 206.836†	291.4	4.42	1.52%	[100]	ug/L
Se 196.026†	165.2	9.35	5.66%	[100]	ug/L
Si 251.611†	15877.1	23.15	0.15%	[500]	ug/L
Sn 189.927†	583.9	5.45	0.93%	[100]	ug/L
Sr 421.552†	15261.9	79.65	0.52%	[100]	ug/L
Ti 334.940†	63344.5	180.05	0.28%	[100]	ug/L
Tl 190.801†	337.9	12.50	3.70%	[100]	ug/L
U 409.014†	3558.5	67.70	1.90%	[100]	ug/L
V 292.402†	14900.2	64.14	0.43%	[100]	ug/L
Zn 213.857†	10945.6	27.98	0.26%	[100]	ug/L
SiO2†	16016.6	226.85	1.42%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 1/12/2010 12:42:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	5024.8	5024.8	98.1 %	12:43:59
1	Y RADIAL	5332.3	5332.3	96.86 %	12:43:59
1	Al 396.153Radial†	6152.3	6276.2	[5000] ug/L	12:43:59
1	Ca 317.933Radial†	3102.1	3142.3	[5000] ug/L	12:44:19
1	K 766.490 Radial†	28813.6	26853.5	[5000] ug/L	12:43:59
1	Mg 279.077 IEC†	158.6	158.5	[5000] ug/L	12:44:19
1	Sr 421.552†	76236.0	77685.3	[500] ug/L	12:43:59
1	Sc 361.383	853673.3	853673.3	99.487 %	12:45:16
1	Y 371.029	710210.0	710210.0	97.601 %	12:45:16
1	Ag 328.068†	108724.9	108928.0	[500] ug/L	12:45:22
1	As 188.979†	1129.2	1159.0	[500] ug/L	12:45:42
1	B 249.677†	21160.4	21884.6	[500] ug/L	12:45:22
1	Ba 233.527†	63662.4	63999.0	[500] ug/L	12:45:22
1	Be 313.107†	1315242.2	1326493.2	[500] ug/L	12:45:16
1	Cd 226.502†	44932.0	45365.1	[500] ug/L	12:45:22
1	Co 228.616†	24426.6	24629.7	[500] ug/L	12:45:22
1	Cr 267.716†	44685.5	44836.8	[500] ug/L	12:45:22
1	Cu 324.752†	170470.9	164946.7	[500] ug/L	12:45:22
1	Mn 257.610†	452541.6	454443.4	[500] ug/L	12:45:16
1	Mo 202.031†	7083.6	7098.5	[500] ug/L	12:45:42
1	Ni 231.604†	20166.3	20203.1	[500] ug/L	12:45:22
1	P 214.914†	4311.5	4113.4	[2500] ug/L	12:45:42
1	Pb 220.353†	4008.6	4091.4	[500] ug/L	12:45:42
1	S 181.975 Axial†	757.4	717.5	[1000] ug/L	12:45:42
1	Sb 206.836†	1460.8	1434.9	[500] ug/L	12:45:42
1	Se 196.026†	766.5	802.5	[500] ug/L	12:45:42
1	Si 251.611†	78914.3	78860.2	[2500] ug/L	12:45:22
1	Sn 189.927†	2840.1	2853.0	[500] ug/L	12:45:42
1	Ti 334.940†	302319.9	305211.7	[500] ug/L	12:45:22
1	Tl 190.801†	1596.1	1638.4	[500] ug/L	12:45:42
1	U 409.014†	15158.5	17100.5	[500] ug/L	12:45:22
1	V 292.402†	71243.7	72970.5	[500] ug/L	12:45:22
1	Zn 213.857†	53644.2	53295.9	[500] ug/L	12:45:22
1	SiO2†	78940.1	78887.7	[5347.5] ug/L	12:46:49
2	Sc Radial	4999.1	4999.1	97.6 %	12:44:24
2	Y RADIAL	5305.7	5305.7	96.37 %	12:44:24
2	Al 396.153Radial†	6184.4	6341.3	[5000] ug/L	12:44:24
2	Ca 317.933Radial†	3089.4	3145.5	[5000] ug/L	12:44:44
2	K 766.490 Radial†	29019.2	27215.0	[5000] ug/L	12:44:24
2	Mg 279.077 IEC†	155.1	155.8	[5000] ug/L	12:44:44
2	Sr 421.552†	75900.9	77741.2	[500] ug/L	12:44:24
2	Sc 361.383	845314.1	845314.1	98.513 %	12:45:47
2	Y 371.029	703393.2	703393.2	96.665 %	12:45:47
2	Ag 328.068†	107544.0	108810.0	[500] ug/L	12:45:53
2	As 188.979†	1121.1	1161.9	[500] ug/L	12:46:13
2	B 249.677†	21048.5	21981.3	[500] ug/L	12:45:53
2	Ba 233.527†	63044.2	64004.3	[500] ug/L	12:45:53
2	Be 313.107†	1305519.1	1329696.6	[500] ug/L	12:45:47
2	Cd 226.502†	44423.7	45295.8	[500] ug/L	12:45:53
2	Co 228.616†	24109.7	24550.8	[500] ug/L	12:45:53
2	Cr 267.716†	44079.0	44665.3	[500] ug/L	12:45:53
2	Cu 324.752†	168419.2	164558.6	[500] ug/L	12:45:53
2	Mn 257.610†	449113.4	455461.6	[500] ug/L	12:45:47
2	Mo 202.031†	7038.5	7123.1	[500] ug/L	12:46:13
2	Ni 231.604†	19903.8	20137.2	[500] ug/L	12:45:53
2	P 214.914†	4276.6	4120.9	[2500] ug/L	12:46:13
2	Pb 220.353†	4002.3	4124.8	[500] ug/L	12:46:13
2	S 181.975 Axial†	748.5	715.9	[1000] ug/L	12:46:13
2	Sb 206.836†	1460.0	1448.6	[500] ug/L	12:46:13

2	Se 196.026†	758.0	801.5	[500]	ug/L	12:46:13
2	Si 251.611†	77838.3	78552.3	[2500]	ug/L	12:45:53
2	Sn 189.927†	2818.7	2859.6	[500]	ug/L	12:46:13
2	Ti 334.940†	299213.6	305063.5	[500]	ug/L	12:45:53
2	Tl 190.801†	1588.3	1646.4	[500]	ug/L	12:46:13
2	U 409.014†	15019.1	17109.6	[500]	ug/L	12:45:53
2	V 292.402†	70419.3	72841.8	[500]	ug/L	12:45:53
2	Zn 213.857†	53069.6	53245.9	[500]	ug/L	12:45:53
2	SiO2†	79601.2	80343.5	[5347.5]	ug/L	12:46:54
3	Sc Radial	4975.7	4975.7	97.2	%	12:44:49
3	Y RADIAL	5287.9	5287.9	96.05	%	12:44:49
3	Al 396.153Radial†	6153.4	6339.1	[5000]	ug/L	12:44:49
3	Ca 317.933Radial†	3107.8	3179.2	[5000]	ug/L	12:45:09
3	K 766.490 Radial†	28709.1	27035.4	[5000]	ug/L	12:44:49
3	Mg 279.077 IEC†	154.2	155.6	[5000]	ug/L	12:45:09
3	Sr 421.552†	75347.5	77536.6	[500]	ug/L	12:44:49
3	Sc 361.383	848277.4	848277.4	98.859	%	12:46:18
3	Y 371.029	706280.3	706280.3	97.061	%	12:46:18
3	Ag 328.068†	109062.4	109964.6	[500]	ug/L	12:46:24
3	As 188.979†	1115.6	1152.4	[500]	ug/L	12:46:44
3	B 249.677†	21335.7	22197.1	[500]	ug/L	12:46:24
3	Ba 233.527†	63826.1	64571.6	[500]	ug/L	12:46:24
3	Be 313.107†	1309469.9	1329063.7	[500]	ug/L	12:46:18
3	Cd 226.502†	44903.5	45623.5	[500]	ug/L	12:46:24
3	Co 228.616†	24436.7	24796.0	[500]	ug/L	12:46:24
3	Cr 267.716†	44771.0	45209.0	[500]	ug/L	12:46:24
3	Cu 324.752†	170788.8	166358.3	[500]	ug/L	12:46:24
3	Mn 257.610†	449789.1	454552.5	[500]	ug/L	12:46:18
3	Mo 202.031†	7050.2	7110.0	[500]	ug/L	12:46:44
3	Ni 231.604†	20173.9	20339.8	[500]	ug/L	12:46:24
3	P 214.914†	4273.1	4102.1	[2500]	ug/L	12:46:44
3	Pb 220.353†	3990.6	4098.9	[500]	ug/L	12:46:44
3	S 181.975 Axial†	756.0	720.8	[1000]	ug/L	12:46:44
3	Sb 206.836†	1465.4	1448.9	[500]	ug/L	12:46:44
3	Se 196.026†	748.4	789.1	[500]	ug/L	12:46:44
3	Si 251.611†	78816.4	79265.7	[2500]	ug/L	12:46:24
3	Sn 189.927†	2819.4	2850.2	[500]	ug/L	12:46:44
3	Ti 334.940†	303078.9	307912.4	[500]	ug/L	12:46:24
3	Tl 190.801†	1587.5	1640.0	[500]	ug/L	12:46:44
3	U 409.014†	15152.5	17191.3	[500]	ug/L	12:46:24
3	V 292.402†	71541.8	73727.6	[500]	ug/L	12:46:24
3	Zn 213.857†	53692.3	53687.6	[500]	ug/L	12:46:24
3	SiO2†	78726.8	79176.7	[5347.5]	ug/L	12:46:59

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	849088.2	4238.18	0.50%	98.953	%
Sc Radial	4999.8	24.53	0.49%	97.6	%
Y 371.029	706627.8	3421.65	0.48%	97.109	%
Y RADIAL	5308.6	22.32	0.42%	96.43	%
Ag 328.068†	109234.2	635.28	0.58%	[500]	ug/L
Al 396.153Radial†	6318.9	36.98	0.59%	[5000]	ug/L
As 188.979†	1157.8	4.87	0.42%	[500]	ug/L
B 249.677†	22021.0	160.03	0.73%	[500]	ug/L
Ba 233.527†	64191.6	329.11	0.51%	[500]	ug/L
Be 313.107†	1328417.8	1696.54	0.13%	[500]	ug/L
Ca 317.933Radial†	3155.7	20.48	0.65%	[5000]	ug/L
Cd 226.502†	45428.1	172.75	0.38%	[500]	ug/L
Co 228.616†	24658.8	125.20	0.51%	[500]	ug/L
Cr 267.716†	44903.7	277.97	0.62%	[500]	ug/L
Cu 324.752†	165287.9	947.11	0.57%	[500]	ug/L
K 766.490 Radial†	27034.6	180.76	0.67%	[5000]	ug/L
Mg 279.077 IEC†	156.7	1.63	1.04%	[5000]	ug/L
Mn 257.610†	454819.2	559.06	0.12%	[500]	ug/L
Mo 202.031†	7110.5	12.31	0.17%	[500]	ug/L
Ni 231.604†	20226.7	103.35	0.51%	[500]	ug/L
P 214.914†	4112.1	9.45	0.23%	[2500]	ug/L
Pb 220.353†	4105.1	17.55	0.43%	[500]	ug/L
S 181.975 Axial†	718.1	2.50	0.35%	[1000]	ug/L

Sb 206.836†	1444.1	7.97	0.55%	[500] ug/L
Se 196.026†	797.7	7.45	0.93%	[500] ug/L
Si 251.611†	78892.8	357.79	0.45%	[2500] ug/L
Sn 189.927†	2854.3	4.81	0.17%	[500] ug/L
Sr 421.552†	77654.4	105.75	0.14%	[500] ug/L
Ti 334.940†	306062.5	1603.73	0.52%	[500] ug/L
Tl 190.801†	1641.6	4.23	0.26%	[500] ug/L
U 409.014†	17133.8	50.00	0.29%	[500] ug/L
V 292.402†	73180.0	478.58	0.65%	[500] ug/L
Zn 213.857†	53409.8	241.86	0.45%	[500] ug/L
SiO2†	79469.3	770.71	0.97%	[5347.5] ug/L

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

Autosampler Location: 4
 Date Collected: 1/12/2010 12:49:10
 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	5073.8	5073.8	99.1 %	12:51:03
1	Y RADIAL	5395.5	5395.5	98.00 %	12:51:03
1	Al 396.153Radial†	12636.1	12759.7	[10000] ug/L	12:51:03
1	Ca 317.933Radial†	6355.5	6395.3	[10000] ug/L	12:51:03
1	Fe 238.204 Radial†	1175.7	1175.1	[10000] ug/L	12:51:23
1	K 766.490 Radial†	56644.9	54659.7	[10000] ug/L	12:51:03
1	Mg 279.077 IEC†	312.7	312.6	[10000] ug/L	12:51:23
1	Na 589.592 Radial†	33015.3	34630.9	[10000] ug/L	12:51:03
1	Sr 421.552†	155081.2	156512.5	[1000] ug/L	12:51:03
1	Sc 361.383	846221.3	846221.3	98.619 %	12:52:22
1	Y 371.029	702372.7	702372.7	96.524 %	12:52:22
1	Ag 328.068†	215472.0	218132.3	[1000] ug/L	12:52:22
1	As 188.979†	2274.9	2330.7	[1000] ug/L	12:52:42
1	B 249.677†	43506.0	44730.3	[1000] ug/L	12:52:22
1	Ba 233.527†	127574.2	129369.3	[1000] ug/L	12:52:22
1	Be 313.107†	2606013.2	2646981.7	[1000] ug/L	12:52:22
1	Cd 226.502†	89753.5	91212.1	[1000] ug/L	12:52:22
1	Co 228.616†	48698.0	49457.2	[1000] ug/L	12:52:22
1	Cr 267.716†	89203.4	90373.6	[1000] ug/L	12:52:22
1	Cu 324.752†	338573.0	336911.8	[1000] ug/L	12:52:22
1	Mn 257.610†	901500.9	913695.5	[1000] ug/L	12:52:22
1	Mo 202.031†	14055.5	14230.7	[1000] ug/L	12:52:42
1	Ni 231.604†	39986.4	40479.3	[1000] ug/L	12:52:22
1	P 214.914†	8392.1	8289.3	[5000] ug/L	12:52:42
1	Pb 220.353†	8032.6	8207.3	[1000] ug/L	12:52:42
1	S 181.975 Axial†	1448.9	1425.4	[2000] ug/L	12:52:42
1	Sb 206.836†	2925.5	2933.1	[1000] ug/L	12:52:42
1	Se 196.026†	1524.3	1577.7	[1000] ug/L	12:52:42
1	Si 251.611†	156650.6	158383.7	[5000] ug/L	12:52:22
1	Sn 189.927†	5628.5	5705.7	[1000] ug/L	12:52:42
1	Ti 334.940†	618431.1	628425.6	[1000] ug/L	12:52:22
1	Tl 190.801†	3215.6	3294.7	[1000] ug/L	12:52:42
1	U 409.014†	31667.8	33975.2	[1000] ug/L	12:52:22
1	V 292.402†	144570.6	147954.9	[1000] ug/L	12:52:22
1	Zn 213.857†	105965.2	106824.5	[1000] ug/L	12:52:22
1	SiO2†	155379.5	157096.4	[10695] ug/L	12:53:43
2	Sc Radial	4988.0	4988.0	97.4 %	12:51:28
2	Y RADIAL	5295.4	5295.4	96.19 %	12:51:28
2	Al 396.153Radial†	12473.8	12812.4	[10000] ug/L	12:51:28
2	Ca 317.933Radial†	6265.5	6413.2	[10000] ug/L	12:51:28
2	Fe 238.204 Radial†	1167.7	1187.2	[10000] ug/L	12:51:48
2	K 766.490 Radial†	56111.6	55095.4	[10000] ug/L	12:51:28
2	Mg 279.077 IEC†	306.0	311.2	[10000] ug/L	12:51:48
2	Na 589.592 Radial†	32315.6	34485.7	[10000] ug/L	12:51:28
2	Sr 421.552†	152761.7	156823.2	[1000] ug/L	12:51:28
2	Sc 361.383	829653.5	829653.5	96.688 %	12:52:50
2	Y 371.029	689200.7	689200.7	94.714 %	12:52:50
2	Ag 328.068†	210949.1	217817.7	[1000] ug/L	12:52:50
2	As 188.979†	2263.1	2364.6	[1000] ug/L	12:53:10
2	B 249.677†	42543.7	44616.1	[1000] ug/L	12:52:50
2	Ba 233.527†	125027.3	129318.4	[1000] ug/L	12:52:50
2	Be 313.107†	2548706.4	2640481.8	[1000] ug/L	12:52:50
2	Cd 226.502†	87671.2	90875.9	[1000] ug/L	12:52:50
2	Co 228.616†	47630.8	49339.6	[1000] ug/L	12:52:50
2	Cr 267.716†	87278.9	90189.5	[1000] ug/L	12:52:50
2	Cu 324.752†	330942.7	335876.0	[1000] ug/L	12:52:50
2	Mn 257.610†	882482.0	912279.8	[1000] ug/L	12:52:50
2	Mo 202.031†	14035.4	14494.5	[1000] ug/L	12:53:10
2	Ni 231.604†	39104.5	40376.9	[1000] ug/L	12:52:50

2	P 214.914†	8354.0	8419.9	[5000]	ug/L	12:53:10
2	Pb 220.353†	8001.6	8337.8	[1000]	ug/L	12:53:10
2	S 181.975 Axial†	1446.5	1452.2	[2000]	ug/L	12:53:10
2	Sb 206.836†	2922.6	2989.3	[1000]	ug/L	12:53:10
2	Se 196.026†	1513.1	1596.9	[1000]	ug/L	12:53:10
2	Si 251.611†	153175.1	157961.2	[5000]	ug/L	12:52:50
2	Sn 189.927†	5598.9	5789.0	[1000]	ug/L	12:53:10
2	Ti 334.940†	605255.5	627321.5	[1000]	ug/L	12:52:50
2	Tl 190.801†	3200.5	3344.2	[1000]	ug/L	12:53:10
2	U 409.014†	30971.9	33896.6	[1000]	ug/L	12:52:50
2	V 292.402†	141521.2	147728.4	[1000]	ug/L	12:52:50
2	Zn 213.857†	103413.8	106331.4	[1000]	ug/L	12:52:50
2	SiO2†	154297.4	159123.5	[10695]	ug/L	12:53:48
3	Sc Radial	4905.8	4905.8	95.8	%	12:51:53
3	Y RADIAL	5231.6	5231.6	95.03	%	12:51:53
3	Al 396.153Radial†	12396.0	12945.8	[10000]	ug/L	12:51:53
3	Ca 317.933Radial†	6210.7	6463.8	[10000]	ug/L	12:51:53
3	Fe 238.204 Radial†	1166.1	1205.7	[10000]	ug/L	12:52:13
3	K 766.490 Radial†	55653.3	55582.2	[10000]	ug/L	12:51:53
3	Mg 279.077 IEC†	307.5	318.0	[10000]	ug/L	12:52:13
3	Na 589.592 Radial†	32040.7	34754.5	[10000]	ug/L	12:51:53
3	Sr 421.552†	151046.8	157660.4	[1000]	ug/L	12:51:53
3	Sc 361.383	837776.7	837776.7	97.635	%	12:53:18
3	Y 371.029	696980.4	696980.4	95.783	%	12:53:18
3	Ag 328.068†	212955.6	217757.3	[1000]	ug/L	12:53:18
3	As 188.979†	2260.5	2339.2	[1000]	ug/L	12:53:38
3	B 249.677†	43056.4	44714.5	[1000]	ug/L	12:53:18
3	Ba 233.527†	125824.6	128881.3	[1000]	ug/L	12:53:18
3	Be 313.107†	2576418.8	2643306.4	[1000]	ug/L	12:53:18
3	Cd 226.502†	88246.5	90585.9	[1000]	ug/L	12:53:18
3	Co 228.616†	47773.6	49008.1	[1000]	ug/L	12:53:18
3	Cr 267.716†	87944.1	89995.6	[1000]	ug/L	12:53:18
3	Cu 324.752†	334486.9	336187.3	[1000]	ug/L	12:53:18
3	Mn 257.610†	889040.1	910147.0	[1000]	ug/L	12:53:18
3	Mo 202.031†	14029.4	14347.6	[1000]	ug/L	12:53:38
3	Ni 231.604†	39438.0	40326.3	[1000]	ug/L	12:53:18
3	P 214.914†	8369.8	8352.2	[5000]	ug/L	12:53:38
3	Pb 220.353†	8025.6	8282.2	[1000]	ug/L	12:53:38
3	S 181.975 Axial†	1442.7	1433.8	[2000]	ug/L	12:53:38
3	Sb 206.836†	2921.0	2958.4	[1000]	ug/L	12:53:38
3	Se 196.026†	1513.0	1581.7	[1000]	ug/L	12:53:38
3	Si 251.611†	154313.1	157590.6	[5000]	ug/L	12:53:18
3	Sn 189.927†	5613.7	5748.0	[1000]	ug/L	12:53:38
3	Ti 334.940†	610672.3	626799.7	[1000]	ug/L	12:53:18
3	Tl 190.801†	3206.3	3318.1	[1000]	ug/L	12:53:38
3	U 409.014†	31143.7	33762.0	[1000]	ug/L	12:53:18
3	V 292.402†	142883.2	147704.2	[1000]	ug/L	12:53:18
3	Zn 213.857†	104218.9	106118.9	[1000]	ug/L	12:53:18
3	SiO2†	155832.1	159148.0	[10695]	ug/L	12:53:54

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	837883.8	8284.44	0.99%	97.647	%
Sc Radial	4989.2	83.99	1.68%	97.4	%
Y 371.029	696184.6	6621.96	0.95%	95.674	%
Y RADIAL	5307.5	82.60	1.56%	96.41	%
Ag 328.068†	217902.4	201.37	0.09%	[1000]	ug/L
Al 396.153Radial†	12839.3	95.92	0.75%	[10000]	ug/L
As 188.979†	2344.8	17.64	0.75%	[1000]	ug/L
B 249.677†	44687.0	61.90	0.14%	[1000]	ug/L
Ba 233.527†	129189.7	268.30	0.21%	[1000]	ug/L
Be 313.107†	2643589.9	3259.21	0.12%	[1000]	ug/L
Ca 317.933Radial†	6424.1	35.53	0.55%	[10000]	ug/L
Cd 226.502†	90891.3	313.39	0.34%	[1000]	ug/L
Co 228.616†	49268.3	232.87	0.47%	[1000]	ug/L
Cr 267.716†	90186.2	189.05	0.21%	[1000]	ug/L
Cu 324.752†	336325.1	531.46	0.16%	[1000]	ug/L
Fe 238.204 Radial†	1189.3	15.40	1.30%	[10000]	ug/L
K 766.490 Radial†	55112.4	461.46	0.84%	[10000]	ug/L

Mg 279.077 IEC†	313.9	3.59	1.14%	[10000]	ug/L
Mn 257.610†	912040.8	1786.27	0.20%	[1000]	ug/L
Mo 202.031†	14357.6	132.17	0.92%	[1000]	ug/L
Na 589.592 Radial†	34623.7	134.56	0.39%	[10000]	ug/L
Ni 231.604†	40394.2	77.93	0.19%	[1000]	ug/L
P 214.914†	8353.8	65.29	0.78%	[5000]	ug/L
Pb 220.353†	8275.8	65.50	0.79%	[1000]	ug/L
S 181.975 Axial†	1437.1	13.73	0.96%	[2000]	ug/L
Sb 206.836†	2960.2	28.15	0.95%	[1000]	ug/L
Se 196.026†	1585.4	10.17	0.64%	[1000]	ug/L
Si 251.611†	157978.5	396.80	0.25%	[5000]	ug/L
Sn 189.927†	5747.6	41.66	0.72%	[1000]	ug/L
Sr 421.552†	156998.7	593.76	0.38%	[1000]	ug/L
Ti 334.940†	627515.6	830.15	0.13%	[1000]	ug/L
Tl 190.801†	3319.0	24.73	0.75%	[1000]	ug/L
U 409.014†	33877.9	107.82	0.32%	[1000]	ug/L
V 292.402†	147795.8	138.28	0.09%	[1000]	ug/L
Zn 213.857†	106424.9	361.96	0.34%	[1000]	ug/L
SiO2†	158456.0	1177.48	0.74%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 1/12/2010 12:56:05
 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	4925.6	4925.6	96.2 %	12:58:18
1	Y RADIAL	5219.7	5219.7	94.81 %	12:58:18
1	Al 396.153Radial†	59396.7	61758.0	[50000] ug/L	12:57:58
1	Ca 317.933Radial†	29411.7	30558.7	[50000] ug/L	12:57:58
1	Fe 238.204 Radial†	2264.1	2342.3	[20000] ug/L	12:58:18
1	Mg 279.077 IEC†	1441.9	1496.0	[50000] ug/L	12:58:18
1	Na 589.592 Radial†	65409.6	69311.9	[20000] ug/L	12:57:58
1	Sc 361.383	823484.9	823484.9	95.969 %	12:59:15
1	Y 371.029	680559.9	680559.9	93.527 %	12:59:15
2	Sc Radial	4927.3	4927.3	96.2 %	12:58:43
2	Y RADIAL	5225.0	5225.0	94.91 %	12:58:43
2	Al 396.153Radial†	60710.3	63102.4	[50000] ug/L	12:58:23
2	Ca 317.933Radial†	30130.0	31294.9	[50000] ug/L	12:58:23
2	Fe 238.204 Radial†	2264.9	2342.4	[20000] ug/L	12:58:43
2	Mg 279.077 IEC†	1449.8	1503.8	[50000] ug/L	12:58:43
2	Na 589.592 Radial†	66690.7	70620.6	[20000] ug/L	12:58:23
2	Sc 361.383	822525.3	822525.3	95.857 %	12:59:21
2	Y 371.029	680709.4	680709.4	93.547 %	12:59:21
3	Sc Radial	4863.9	4863.9	95.0 %	12:59:08
3	Y RADIAL	5133.4	5133.4	93.24 %	12:59:08
3	Al 396.153Radial†	59330.4	62471.5	[50000] ug/L	12:58:48
3	Ca 317.933Radial†	29380.1	30913.3	[50000] ug/L	12:58:48
3	Fe 238.204 Radial†	2244.9	2351.9	[20000] ug/L	12:59:08
3	Mg 279.077 IEC†	1435.0	1507.8	[50000] ug/L	12:59:08
3	Na 589.592 Radial†	65029.3	69774.3	[20000] ug/L	12:58:48
3	Sc 361.383	827553.8	827553.8	96.443 %	12:59:27
3	Y 371.029	683978.3	683978.3	93.996 %	12:59:27

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	824521.4	2669.63	0.32%	96.090 %
Sc Radial	4905.6	36.11	0.74%	95.8 %
Y 371.029	681749.2	1931.88	0.28%	93.690 %
Y RADIAL	5192.7	51.42	0.99%	94.32 %
Al 396.153Radial†	62444.0	672.63	1.08%	[50000] ug/L
Ca 317.933Radial†	30922.3	368.21	1.19%	[50000] ug/L
Fe 238.204 Radial†	2345.5	5.54	0.24%	[20000] ug/L
Mg 279.077 IEC†	1502.5	5.98	0.40%	[50000] ug/L
Na 589.592 Radial†	69902.3	663.67	0.95%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	218.0	0.00000	0.999998	
Al 396.153Radial	3	Lin Thru 0	0.0	1.250	0.00000	0.999985	
As 188.979	3	Lin Thru 0	0.0	2.339	0.00000	0.999987	
B 249.677	3	Lin Thru 0	0.0	44.55	0.00000	0.999983	
Ba 233.527	3	Lin Thru 0	0.0	129.1	0.00000	0.999993	
Be 313.107	3	Lin Thru 0	0.0	2647	0.00000	0.999996	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.6195	0.00000	0.999971	
Cd 226.502	3	Lin Thru 0	0.0	90.90	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	49.28	0.00000	0.999999	
Cr 267.716	3	Lin Thru 0	0.0	90.13	0.00000	0.999995	
Cu 324.752	3	Lin Thru 0	0.0	335.2	0.00000	0.999976	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1176	0.00000	0.999984	
K 766.490 Radial	3	Lin Thru 0	0.0	5.491	0.00000	0.999970	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0301	0.00000	0.999956
Mn 257.610	3	Lin Thru 0	0.0	911.9	0.00000	0.999993
Mo 202.031	3	Lin Thru 0	0.0	14.33	0.00000	0.999992
Na 589.592 Radia	2	Lin Thru 0	0.0	3.489	0.00000	0.999993
Ni 231.604	3	Lin Thru 0	0.0	40.41	0.00000	0.999999
P 214.914	3	Lin Thru 0	0.0	1.666	0.00000	0.999980
Pb 220.353	3	Lin Thru 0	0.0	8.264	0.00000	0.999993
S 181.975 Axial	3	Lin Thru 0	0.0	0.7186	0.00000	0.999999
Sb 206.836	3	Lin Thru 0	0.0	2.946	0.00000	0.999952
Se 196.026	3	Lin Thru 0	0.0	1.588	0.00000	0.999990
Si 251.611	3	Lin Thru 0	0.0	31.59	0.00000	1.000000
Sn 189.927	3	Lin Thru 0	0.0	5.741	0.00000	0.999995
Sr 421.552	3	Lin Thru 0	0.0	156.6	0.00000	0.999988
Ti 334.940	3	Lin Thru 0	0.0	624.5	0.00000	0.999951
Tl 190.801	3	Lin Thru 0	0.0	3.312	0.00000	0.999989
U 409.014	3	Lin Thru 0	0.0	33.97	0.00000	0.999981
V 292.402	3	Lin Thru 0	0.0	147.5	0.00000	0.999992
Zn 213.857	3	Lin Thru 0	0.0	106.5	0.00000	0.999996
SiO2	3	Lin Thru 0	0.0	14.83	0.00000	0.999999

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 1/12/2010 13:01:38
 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	5010.0	5010.0	97.8 %		13:03:31
1	Y RADIAL	5302.4	5302.4	96.31 %		13:03:31
1	Al 396.153Radial†	6249.1	6393.7	5087.4 ug/L	5087.4 ppb	13:03:31
1	Ca 317.933Radial†	3090.1	3139.4	5067.8 ug/L	5067.8 ppb	13:03:51
1	Fe 238.204 Radial†	603.1	604.9	5158.4 ug/L	5158.4 ppb	13:03:51
1	K 766.490 Radial†	15625.6	13460.2	2447.7 ug/L	2447.7 ppb	13:03:31
1	Mg 279.077 IEC†	159.4	159.9	5309.0 ug/L	5309.0 ppb	13:03:51
1	Na 589.592 Radial†	7188.4	8656.5	2481.4 ug/L	2481.4 ppb	13:03:31
1	Sr 421.552†	79944.0	81704.9	521.61 ug/L	521.61 ppb	13:03:31
1	Sc 361.383	849869.6	849869.6	99.044 %		13:04:49
1	Y 371.029	711496.0	711496.0	97.778 %		13:04:49
1	Ag 328.068†	56675.3	56865.2	264.26 ug/L	264.26 ppb	13:04:49
1	As 188.979†	1071.5	1105.8	476.98 ug/L	476.98 ppb	13:05:09
1	B 249.677†	22366.5	23197.5	518.39 ug/L	518.39 ppb	13:04:49
1	Ba 233.527†	65677.2	66319.6	515.13 ug/L	515.13 ppb	13:04:49
1	Be 313.107†	679307.1	690337.6	261.96 ug/L	261.96 ppb	13:04:49
1	Cd 226.502†	45224.8	45862.9	504.40 ug/L	504.40 ppb	13:04:49
1	Co 228.616†	24639.9	24955.0	506.52 ug/L	506.52 ppb	13:05:09
1	Cr 267.716†	44068.9	44415.2	493.40 ug/L	493.40 ppb	13:04:49
1	Cu 324.752†	175664.4	170957.3	509.98 ug/L	509.98 ppb	13:04:49
1	Mn 257.610†	463792.9	467839.1	513.36 ug/L	513.36 ppb	13:04:49
1	Mo 202.031†	7661.7	7714.0	538.71 ug/L	538.71 ppb	13:05:09
1	Ni 231.604†	20007.9	20134.0	497.95 ug/L	497.95 ppb	13:05:09
1	P 214.914†	4370.8	4192.7	2397.8 ug/L	2397.8 ppb	13:05:09
1	Pb 220.353†	4040.5	4141.7	503.01 ug/L	503.01 ppb	13:05:09
1	S 181.975 Axial†	1809.3	1782.9	2480.3 ug/L	2480.3 ppb	13:05:09
1	Sb 206.836†	1486.2	1467.1	516.63 ug/L	516.63 ppb	13:05:09
1	Se 196.026†	3988.7	4059.3	2573.5 ug/L	2573.5 ppb	13:05:09
1	Si 251.611†	152179.8	153187.8	4842.7 ug/L	4842.7 ppb	13:04:49
1	Sn 189.927†	3059.7	3087.6	538.79 ug/L	538.79 ppb	13:05:09
1	Ti 334.940†	308948.9	313264.6	501.47 ug/L	501.47 ppb	13:04:49
1	Tl 190.801†	1676.3	1726.5	524.68 ug/L	524.68 ppb	13:05:09
1	U 409.014†	15115.1	17124.9	502.45 ug/L	502.45 ppb	13:04:49
1	V 292.402†	72741.6	74803.3	514.59 ug/L	514.59 ppb	13:04:49
1	Zn 213.857†	54741.7	54645.3	508.61 ug/L	508.61 ppb	13:04:49
1	SiO2†	151046.2	152044.9	10241 ug/L	10241 ppb	13:06:06
2	Sc Radial	4856.2	4856.2	94.8 %		13:03:56
2	Y RADIAL	5210.4	5210.4	94.64 %		13:03:56
2	Al 396.153Radial†	6393.7	6748.3	5371.2 ug/L	5371.2 ppb	13:03:56
2	Ca 317.933Radial†	3109.0	3259.3	5261.3 ug/L	5261.3 ppb	13:04:16
2	Fe 238.204 Radial†	609.3	631.0	5380.3 ug/L	5380.3 ppb	13:04:16
2	K 766.490 Radial†	16036.5	14399.0	2618.5 ug/L	2618.5 ppb	13:03:56
2	Mg 279.077 IEC†	159.6	165.2	5487.0 ug/L	5487.0 ppb	13:04:16
2	Na 589.592 Radial†	7358.5	9068.4	2599.5 ug/L	2599.5 ppb	13:03:56
2	Sr 421.552†	81707.1	86150.7	549.99 ug/L	549.99 ppb	13:03:56
2	Sc 361.383	857001.6	857001.6	99.875 %		13:05:15
2	Y 371.029	717341.1	717341.1	98.581 %		13:05:15
2	Ag 328.068†	56911.5	56625.5	263.23 ug/L	263.23 ppb	13:05:15
2	As 188.979†	1072.5	1097.7	473.60 ug/L	473.60 ppb	13:05:35
2	B 249.677†	22569.5	23212.7	518.71 ug/L	518.71 ppb	13:05:15
2	Ba 233.527†	66137.2	66228.4	514.43 ug/L	514.43 ppb	13:05:15
2	Be 313.107†	683745.0	689073.3	261.48 ug/L	261.48 ppb	13:05:15
2	Cd 226.502†	45542.1	45800.6	503.69 ug/L	503.69 ppb	13:05:15
2	Co 228.616†	24634.6	24742.6	502.20 ug/L	502.20 ppb	13:05:35
2	Cr 267.716†	44333.4	44309.8	492.23 ug/L	492.23 ppb	13:05:15
2	Cu 324.752†	176283.6	170101.3	507.44 ug/L	507.44 ppb	13:05:15
2	Mn 257.610†	466933.8	467087.0	512.55 ug/L	512.55 ppb	13:05:15
2	Mo 202.031†	7658.4	7646.4	534.01 ug/L	534.01 ppb	13:05:35
2	Ni 231.604†	20023.8	19981.8	494.18 ug/L	494.18 ppb	13:05:35

2	P 214.914†	4371.1	4156.3	2376.4 ug/L	2376.4 ppb	13:05:35
2	Pb 220.353†	4047.0	4114.2	499.73 ug/L	499.73 ppb	13:05:35
2	S 181.975 Axial†	1824.4	1782.8	2480.0 ug/L	2480.0 ppb	13:05:35
2	Sb 206.836†	1488.1	1456.5	512.87 ug/L	512.87 ppb	13:05:35
2	Se 196.026†	4016.9	4054.0	2570.9 ug/L	2570.9 ppb	13:05:35
2	Si 251.611†	153041.2	152771.6	4829.6 ug/L	4829.6 ppb	13:05:15
2	Sn 189.927†	3060.0	3062.1	534.39 ug/L	534.39 ppb	13:05:35
2	Ti 334.940†	310900.4	312622.7	500.46 ug/L	500.46 ppb	13:05:15
2	Tl 190.801†	1705.2	1741.4	529.17 ug/L	529.17 ppb	13:05:35
2	U 409.014†	15024.8	16907.4	496.02 ug/L	496.02 ppb	13:05:15
2	V 292.402†	73186.5	74637.6	513.36 ug/L	513.36 ppb	13:05:15
2	Zn 213.857†	55101.8	54546.0	507.68 ug/L	507.68 ppb	13:05:15
2	SiO2†	152226.2	151957.2	10235 ug/L	10235 ppb	13:06:12
3	Sc Radial	5354.1	5354.1	105 %		13:04:21
3	Y RADIAL	5682.9	5682.9	103.2 %		13:04:21
3	Al 396.153Radial†	6189.2	5925.8	4714.3 ug/L	4714.3 ppb	13:04:21
3	Ca 317.933Radial†	3090.8	2936.9	4741.0 ug/L	4741.0 ppb	13:04:41
3	Fe 238.204 Radial†	608.0	570.0	4860.8 ug/L	4860.8 ppb	13:04:41
3	K 766.490 Radial†	15736.8	12539.8	2280.3 ug/L	2280.3 ppb	13:04:21
3	Mg 279.077 IEC†	160.5	150.5	4997.9 ug/L	4997.9 ppb	13:04:41
3	Na 589.592 Radial†	7199.1	8194.4	2348.9 ug/L	2348.9 ppb	13:04:21
3	Sr 421.552†	79611.9	76134.7	486.05 ug/L	486.05 ppb	13:04:21
3	Sc 361.383	885353.8	885353.8	103.18 %		13:05:41
3	Y 371.029	740833.6	740833.6	101.81 %		13:05:41
3	Ag 328.068†	55805.0	53728.3	249.68 ug/L	249.68 ppb	13:05:41
3	As 188.979†	1075.8	1066.6	459.96 ug/L	459.96 ppb	13:06:01
3	B 249.677†	22064.4	21999.6	491.62 ug/L	491.62 ppb	13:05:41
3	Ba 233.527†	64638.2	62654.9	486.66 ug/L	486.66 ppb	13:05:41
3	Be 313.107†	666405.7	650344.9	246.79 ug/L	246.79 ppb	13:05:41
3	Cd 226.502†	44523.6	43353.3	476.80 ug/L	476.80 ppb	13:05:41
3	Co 228.616†	24528.8	23850.2	484.12 ug/L	484.12 ppb	13:06:01
3	Cr 267.716†	43335.4	41921.0	465.69 ug/L	465.69 ppb	13:05:41
3	Cu 324.752†	172464.7	160747.8	479.53 ug/L	479.53 ppb	13:05:41
3	Mn 257.610†	456774.6	442269.2	485.30 ug/L	485.30 ppb	13:05:41
3	Mo 202.031†	7633.0	7376.2	515.11 ug/L	515.11 ppb	13:06:01
3	Ni 231.604†	19894.6	19214.5	475.21 ug/L	475.21 ppb	13:06:01
3	P 214.914†	4356.1	4001.5	2290.2 ug/L	2290.2 ppb	13:06:01
3	Pb 220.353†	4037.4	3975.1	482.76 ug/L	482.76 ppb	13:06:01
3	S 181.975 Axial†	1806.7	1707.2	2374.9 ug/L	2374.9 ppb	13:06:01
3	Sb 206.836†	1486.6	1407.3	495.53 ug/L	495.53 ppb	13:06:01
3	Se 196.026†	3998.3	3907.2	2476.8 ug/L	2476.8 ppb	13:06:01
3	Si 251.611†	149921.2	144840.7	4578.8 ug/L	4578.8 ppb	13:05:41
3	Sn 189.927†	3048.2	2952.6	515.21 ug/L	515.21 ppb	13:06:01
3	Ti 334.940†	303449.3	295432.6	472.92 ug/L	472.92 ppb	13:05:41
3	Tl 190.801†	1688.1	1670.2	507.45 ug/L	507.45 ppb	13:06:01
3	U 409.014†	14649.8	16062.2	471.26 ug/L	471.26 ppb	13:05:41
3	V 292.402†	71433.0	70591.5	485.72 ug/L	485.72 ppb	13:05:41
3	Zn 213.857†	53890.4	51605.1	480.28 ug/L	480.28 ppb	13:05:41
3	SiO2†	152938.4	147766.5	9952.6 ug/L	9952.6 ppb	13:06:17

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864075.0	100.70 %	2.187			2.17%
Sc Radial	5073.4	99.1 %	4.98			5.02%
Y 371.029	723223.6	99.390 %	2.1340			2.15%
Y RADIAL	5398.6	98.06 %	4.551			4.64%
Ag 328.068†	55739.7	259.06 ug/L	8.137	259.06 ppb	8.137	3.14%
QC value within limits for Ag 328.068 Recovery = 103.62%						
Al 396.153Radial†	6356.0	5057.7 ug/L	329.45	5057.7 ppb	329.45	6.51%
QC value within limits for Al 396.153Radial Recovery = 101.15%						
As 188.979†	1090.0	470.18 ug/L	9.010	470.18 ppb	9.010	1.92%
QC value within limits for As 188.979 Recovery = 94.04%						
B 249.677†	22803.3	509.57 ug/L	15.551	509.57 ppb	15.551	3.05%
QC value within limits for B 249.677 Recovery = 101.91%						
Ba 233.527†	65067.6	505.41 ug/L	16.236	505.41 ppb	16.236	3.21%
QC value within limits for Ba 233.527 Recovery = 101.08%						
Be 313.107†	676585.3	256.75 ug/L	8.626	256.75 ppb	8.626	3.36%
QC value within limits for Be 313.107 Recovery = 102.70%						
Ca 317.933Radial†	3111.9	5023.4 ug/L	263.00	5023.4 ppb	263.00	5.24%

QC value within limits for Ca 317.933 Radial Recovery = 100.47%							
Cd	226.502†	45005.6	494.96 ug/L	15.732	494.96 ppb	15.732	3.18%
QC value within limits for Cd 226.502 Recovery = 98.99%							
Co	228.616†	24515.9	497.61 ug/L	11.888	497.61 ppb	11.888	2.39%
QC value within limits for Co 228.616 Recovery = 99.52%							
Cr	267.716†	43548.7	483.78 ug/L	15.671	483.78 ppb	15.671	3.24%
QC value within limits for Cr 267.716 Recovery = 96.76%							
Cu	324.752†	167268.8	498.98 ug/L	16.898	498.98 ppb	16.898	3.39%
QC value within limits for Cu 324.752 Recovery = 99.80%							
Fe	238.204 Radial†	602.0	5133.2 ug/L	260.70	5133.2 ppb	260.70	5.08%
QC value within limits for Fe 238.204 Radial Recovery = 102.66%							
K	766.490 Radial†	13466.3	2448.8 ug/L	169.14	2448.8 ppb	169.14	6.91%
QC value within limits for K 766.490 Radial Recovery = 97.95%							
Mg	279.077 IEC†	158.5	5264.7 ug/L	247.56	5264.7 ppb	247.56	4.70%
QC value within limits for Mg 279.077 IEC Recovery = 105.29%							
Mn	257.610†	459065.1	503.73 ug/L	15.971	503.73 ppb	15.971	3.17%
QC value within limits for Mn 257.610 Recovery = 100.75%							
Mo	202.031†	7578.9	529.28 ug/L	12.491	529.28 ppb	12.491	2.36%
QC value within limits for Mo 202.031 Recovery = 105.86%							
Na	589.592 Radial†	8639.8	2476.6 ug/L	125.34	2476.6 ppb	125.34	5.06%
QC value within limits for Na 589.592 Radial Recovery = 99.06%							
Ni	231.604†	19776.8	489.11 ug/L	12.188	489.11 ppb	12.188	2.49%
QC value within limits for Ni 231.604 Recovery = 97.82%							
P	214.914†	4116.8	2354.8 ug/L	56.95	2354.8 ppb	56.95	2.42%
QC value within limits for P 214.914 Recovery = 94.19%							
Pb	220.353†	4077.0	495.17 ug/L	10.873	495.17 ppb	10.873	2.20%
QC value within limits for Pb 220.353 Recovery = 99.03%							
S	181.975 Axial†	1757.6	2445.1 ug/L	60.75	2445.1 ppb	60.75	2.48%
QC value within limits for S 181.975 Axial Recovery = 97.80%							
Sb	206.836†	1443.6	508.35 ug/L	11.254	508.35 ppb	11.254	2.21%
QC value within limits for Sb 206.836 Recovery = 101.67%							
Se	196.026†	4006.8	2540.4 ug/L	55.11	2540.4 ppb	55.11	2.17%
QC value within limits for Se 196.026 Recovery = 101.62%							
Si	251.611†	150266.7	4750.4 ug/L	148.75	4750.4 ppb	148.75	3.13%
QC value within limits for Si 251.611 Recovery = 95.01%							
Sn	189.927†	3034.1	529.47 ug/L	12.537	529.47 ppb	12.537	2.37%
QC value within limits for Sn 189.927 Recovery = 105.89%							
Sr	421.552†	81330.1	519.22 ug/L	32.039	519.22 ppb	32.039	6.17%
QC value within limits for Sr 421.552 Recovery = 103.84%							
Ti	334.940†	307106.7	491.62 ug/L	16.198	491.62 ppb	16.198	3.29%
QC value within limits for Ti 334.940 Recovery = 98.32%							
Tl	190.801†	1712.7	520.43 ug/L	11.464	520.43 ppb	11.464	2.20%
QC value within limits for Tl 190.801 Recovery = 104.09%							
U	409.014†	16698.2	489.91 ug/L	16.468	489.91 ppb	16.468	3.36%
QC value within limits for U 409.014 Recovery = 97.98%							
V	292.402†	73344.1	504.56 ug/L	16.328	504.56 ppb	16.328	3.24%
QC value within limits for V 292.402 Recovery = 100.91%							
Zn	213.857†	53598.8	498.86 ug/L	16.092	498.86 ppb	16.092	3.23%
QC value within limits for Zn 213.857 Recovery = 99.77%							
SiO2†		150589.6	10143 ug/L	164.6	10143 ppb	164.6	1.62%
QC value within limits for SiO2 Recovery = 94.84%							
All analyte(s) passed QC.							

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 1/12/2010 13:08:27
 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	5132.5	5132.5	100 %		13:10:20
1	Y RADIAL	5490.0	5490.0	99.72 %		13:10:20
1	Al 396.153Radial†	-3.5	2.7	2.1297 ug/L	2.1297 ppb	13:10:20
1	Ca 317.933Radial†	10.8	-8.4	-13.622 ug/L	-13.622 ppb	13:10:40
1	Fe 238.204 Radial†	10.5	-1.0	-8.8942 ug/L	-8.8942 ppb	13:10:40
1	K 766.490 Radial†	2595.7	78.3	14.260 ug/L	14.260 ppb	13:10:20
1	Mg 279.077 IEC†	4.0	0.9	30.951 ug/L	30.951 ppb	13:10:40
1	Na 589.592 Radial†	-1229.1	82.6	23.676 ug/L	23.676 ppb	13:10:20
1	Sr 421.552†	35.1	25.3	0.1616 ug/L	0.1616 ppb	13:10:20
1	Sc 361.383	827959.4	827959.4	96.491 %		13:11:37
1	Y 371.029	702033.6	702033.6	96.478 %		13:11:37
1	Ag 328.068†	260.3	-87.3	-0.4028 ug/L	-0.4028 ppb	13:11:37
1	As 188.979†	-19.0	4.2	1.8003 ug/L	1.8003 ppb	13:11:57
1	B 249.677†	-343.4	259.2	5.8194 ug/L	5.8194 ppb	13:11:57
1	Ba 233.527†	-8.2	0.1	0.0009 ug/L	0.0009 ppb	13:11:57
1	Be 313.107†	-4481.6	-169.9	-0.0640 ug/L	-0.0640 ppb	13:11:37
1	Cd 226.502†	-186.7	8.2	0.0916 ug/L	0.0916 ppb	13:11:57
1	Co 228.616†	-83.1	-8.9	-0.1811 ug/L	-0.1811 ppb	13:11:57
1	Cr 267.716†	68.2	-8.3	-0.0919 ug/L	-0.0919 ppb	13:11:57
1	Cu 324.752†	6276.5	102.4	0.3044 ug/L	0.3044 ppb	13:11:37
1	Mn 257.610†	414.4	-0.3	-0.0025 ug/L	-0.0025 ppb	13:11:57
1	Mo 202.031†	21.3	0.4	0.0283 ug/L	0.0283 ppb	13:11:57
1	Ni 231.604†	86.0	22.1	0.5465 ug/L	0.5465 ppb	13:11:57
1	P 214.914†	217.7	5.3	3.1247 ug/L	3.1247 ppb	13:11:57
1	Pb 220.353†	-56.7	3.4	0.4131 ug/L	0.4131 ppb	13:11:57
1	S 181.975 Axial†	52.0	10.0	13.876 ug/L	13.876 ppb	13:11:57
1	Sb 206.836†	43.9	12.0	4.1234 ug/L	4.1234 ppb	13:11:57
1	Se 196.026†	-27.1	3.9	2.4547 ug/L	2.4547 ppb	13:11:57
1	Si 251.611†	493.4	50.7	1.6044 ug/L	1.6044 ppb	13:11:57
1	Sn 189.927†	14.1	13.0	2.2582 ug/L	2.2582 ppb	13:11:57
1	Ti 334.940†	-1235.0	54.2	0.0820 ug/L	0.0820 ppb	13:11:37
1	Tl 190.801†	-40.9	-8.3	-2.5110 ug/L	-2.5110 ppb	13:11:57
1	U 409.014†	-1763.7	36.0	1.0612 ug/L	1.0612 ppb	13:11:37
1	V 292.402†	-1282.3	30.7	0.2129 ug/L	0.2129 ppb	13:11:37
1	Zn 213.857†	628.7	26.9	0.2498 ug/L	0.2498 ppb	13:11:57
1	SiO2†	453.9	11.4	0.7697 ug/L	0.7697 ppb	13:12:53
2	Sc Radial	5004.1	5004.1	97.7 %		13:10:45
2	Y RADIAL	5395.8	5395.8	98.01 %		13:10:45
2	Al 396.153Radial†	-4.0	2.1	1.6928 ug/L	1.6928 ppb	13:10:45
2	Ca 317.933Radial†	14.7	-4.2	-6.7989 ug/L	-6.7989 ppb	13:11:05
2	Fe 238.204 Radial†	13.0	1.7	14.568 ug/L	14.568 ppb	13:11:05
2	K 766.490 Radial†	2582.5	131.3	23.898 ug/L	23.898 ppb	13:10:45
2	Mg 279.077 IEC†	3.9	0.9	30.582 ug/L	30.582 ppb	13:11:05
2	Na 589.592 Radial†	-1207.7	73.0	20.920 ug/L	20.920 ppb	13:10:45
2	Sr 421.552†	18.7	9.3	0.0597 ug/L	0.0597 ppb	13:10:45
2	Sc 361.383	837584.2	837584.2	97.612 %		13:12:02
2	Y 371.029	710200.8	710200.8	97.600 %		13:12:02
2	Ag 328.068†	283.3	-66.9	-0.2968 ug/L	-0.2968 ppb	13:12:02
2	As 188.979†	-26.9	-3.6	-1.5477 ug/L	-1.5477 ppb	13:12:22
2	B 249.677†	-347.9	258.7	5.8054 ug/L	5.8054 ppb	13:12:22
2	Ba 233.527†	-27.8	-19.9	-0.1535 ug/L	-0.1535 ppb	13:12:22
2	Be 313.107†	-4427.1	-60.7	-0.0230 ug/L	-0.0230 ppb	13:12:02
2	Cd 226.502†	-192.5	4.4	0.0456 ug/L	0.0456 ppb	13:12:22
2	Co 228.616†	-78.8	-3.5	-0.0734 ug/L	-0.0734 ppb	13:12:22
2	Cr 267.716†	62.0	-15.5	-0.1692 ug/L	-0.1692 ppb	13:12:22
2	Cu 324.752†	6241.4	-8.4	-0.0212 ug/L	-0.0212 ppb	13:12:02
2	Mn 257.610†	424.2	4.8	0.0054 ug/L	0.0054 ppb	13:12:22
2	Mo 202.031†	9.0	-12.4	-0.8649 ug/L	-0.8649 ppb	13:12:22
2	Ni 231.604†	47.2	-18.7	-0.4626 ug/L	-0.4626 ppb	13:12:22

2	P 214.914†	230.4	15.7	9.4149 ug/L	9.4149 ppb	13:12:22
2	Pb 220.353†	-61.9	-1.2	-0.1500 ug/L	-0.1500 ppb	13:12:22
2	S 181.975 Axial†	49.5	6.9	9.5401 ug/L	9.5401 ppb	13:12:22
2	Sb 206.836†	34.5	1.9	0.6349 ug/L	0.6349 ppb	13:12:22
2	Se 196.026†	-32.2	-1.0	-0.5626 ug/L	-0.5626 ppb	13:12:22
2	Si 251.611†	452.1	2.5	0.0909 ug/L	0.0909 ppb	13:12:22
2	Sn 189.927†	0.9	-0.7	-0.1311 ug/L	-0.1311 ppb	13:12:22
2	Ti 334.940†	-1310.7	-8.6	-0.0147 ug/L	-0.0147 ppb	13:12:02
2	Tl 190.801†	-29.6	3.8	1.1356 ug/L	1.1356 ppb	13:12:22
2	U 409.014†	-2003.2	-188.3	-5.5451 ug/L	-5.5451 ppb	13:12:02
2	V 292.402†	-1310.4	17.3	0.0921 ug/L	0.0921 ppb	13:12:02
2	Zn 213.857†	635.6	26.5	0.2507 ug/L	0.2507 ppb	13:12:22
2	SiO2†	503.0	56.3	3.8213 ug/L	3.8213 ppb	13:12:58
3	Sc Radial	4986.9	4986.9	97.4 %		13:11:10
3	Y RADIAL	5371.2	5371.2	97.56 %		13:11:10
3	Al 396.153Radial†	-13.1	-7.3	-5.8687 ug/L	-5.8687 ppb	13:11:10
3	Ca 317.933Radial†	14.0	-4.9	-7.8391 ug/L	-7.8391 ppb	13:11:30
3	Fe 238.204 Radial†	8.9	-2.4	-20.530 ug/L	-20.530 ppb	13:11:30
3	K 766.490 Radial†	2484.6	39.8	7.2541 ug/L	7.2541 ppb	13:11:10
3	Mg 279.077 IEC†	1.1	-1.9	-63.992 ug/L	-63.992 ppb	13:11:30
3	Na 589.592 Radial†	-1249.6	25.7	7.3714 ug/L	7.3714 ppb	13:11:10
3	Sr 421.552†	20.7	11.5	0.0733 ug/L	0.0733 ppb	13:11:10
3	Sc 361.383	838620.9	838620.9	97.733 %		13:12:28
3	Y 371.029	710266.2	710266.2	97.609 %		13:12:28
3	Ag 328.068†	248.9	-102.4	-0.4763 ug/L	-0.4763 ppb	13:12:28
3	As 188.979†	-17.2	6.3	2.6868 ug/L	2.6868 ppb	13:12:48
3	B 249.677†	-351.7	255.2	5.7327 ug/L	5.7327 ppb	13:12:48
3	Ba 233.527†	-12.0	-3.7	-0.0300 ug/L	-0.0300 ppb	13:12:48
3	Be 313.107†	-4461.9	-90.7	-0.0343 ug/L	-0.0343 ppb	13:12:28
3	Cd 226.502†	-186.4	10.9	0.1216 ug/L	0.1216 ppb	13:12:48
3	Co 228.616†	-83.1	-7.8	-0.1577 ug/L	-0.1577 ppb	13:12:48
3	Cr 267.716†	81.8	4.7	0.0520 ug/L	0.0520 ppb	13:12:48
3	Cu 324.752†	6300.0	43.7	0.1305 ug/L	0.1305 ppb	13:12:28
3	Mn 257.610†	421.6	1.6	0.0023 ug/L	0.0023 ppb	13:12:48
3	Mo 202.031†	27.4	6.4	0.4431 ug/L	0.4431 ppb	13:12:48
3	Ni 231.604†	72.5	7.2	0.1777 ug/L	0.1777 ppb	13:12:48
3	P 214.914†	219.0	3.7	2.2500 ug/L	2.2500 ppb	13:12:48
3	Pb 220.353†	-56.5	4.4	0.5349 ug/L	0.5349 ppb	13:12:48
3	S 181.975 Axial†	48.5	5.7	7.9861 ug/L	7.9861 ppb	13:12:48
3	Sb 206.836†	39.6	7.0	2.4467 ug/L	2.4467 ppb	13:12:48
3	Se 196.026†	-28.0	3.4	2.0664 ug/L	2.0664 ppb	13:12:48
3	Si 251.611†	475.1	25.4	0.7990 ug/L	0.7990 ppb	13:12:48
3	Sn 189.927†	19.4	18.2	3.1682 ug/L	3.1682 ppb	13:12:48
3	Ti 334.940†	-1314.6	-10.9	-0.0123 ug/L	-0.0123 ppb	13:12:28
3	Tl 190.801†	-37.2	-4.0	-1.2004 ug/L	-1.2004 ppb	13:12:48
3	U 409.014†	-1901.7	-81.9	-2.4097 ug/L	-2.4097 ppb	13:12:28
3	V 292.402†	-1398.1	-70.8	-0.4757 ug/L	-0.4757 ppb	13:12:28
3	Zn 213.857†	626.8	16.7	0.1571 ug/L	0.1571 ppb	13:12:48
3	SiO2†	489.0	41.3	2.7732 ug/L	2.7732 ppb	13:13:03

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834721.5	97.279 %	0.6851			0.70%
Sc Radial	5041.2	98.4 %	1.55			1.58%
Y 371.029	707500.2	97.229 %	0.6506			0.67%
Y RADIAL	5419.0	98.43 %	1.139			1.16%
Ag 328.068†	-85.5	-0.3920 ug/L	0.09024	-0.3920 ppb	0.09024	23.02%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.9	-0.6821 ug/L	4.49703	-0.6821 ppb	4.49703	659.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.3	0.9798 ug/L	2.23329	0.9798 ppb	2.23329	227.94%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	257.7	5.7858 ug/L	0.04657	5.7858 ppb	0.04657	0.80%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-7.8	-0.0609 ug/L	0.08169	-0.0609 ppb	0.08169	134.22%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-107.1	-0.0404 ug/L	0.02118	-0.0404 ppb	0.02118	52.39%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-5.8	-9.4201 ug/L	3.67624	-9.4201 ppb	3.67624	39.03%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	7.8	0.0863 ug/L	0.03831	0.0863 ppb	0.03831	44.41%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-6.8	-0.1374 ug/L	0.05662	-0.1374 ppb	0.05662	41.21%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-6.3	-0.0697 ug/L	0.11226	-0.0697 ppb	0.11226	161.13%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	45.9	0.1379 ug/L	0.16295	0.1379 ppb	0.16295	118.17%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.6	-4.9520 ug/L	17.87815	-4.9520 ppb	17.87815	361.03%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	83.1	15.137 ug/L	8.3568	15.137 ppb	8.3568	55.21%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.0	-0.8197 ug/L	54.70932	-0.8197 ppb	54.70932	>999.9%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	2.0	0.0018 ug/L	0.00401	0.0018 ppb	0.00401	227.92%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-1.9	-0.1312 ug/L	0.66844	-0.1312 ppb	0.66844	509.61%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	60.4	17.322 ug/L	8.7273	17.322 ppb	8.7273	50.38%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	3.5	0.0872 ug/L	0.51061	0.0872 ppb	0.51061	585.72%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	8.2	4.9299 ug/L	3.90870	4.9299 ppb	3.90870	79.29%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	2.2	0.2660 ug/L	0.36539	0.2660 ppb	0.36539	137.36%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	7.5	10.467 ug/L	3.0527	10.467 ppb	3.0527	29.16%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	7.0	2.4017 ug/L	1.74473	2.4017 ppb	1.74473	72.65%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	2.1	1.3195 ug/L	1.64149	1.3195 ppb	1.64149	124.40%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	26.2	0.8314 ug/L	0.75728	0.8314 ppb	0.75728	91.08%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	10.1	1.7651 ug/L	1.70403	1.7651 ppb	1.70403	96.54%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	15.4	0.0982 ug/L	0.05530	0.0982 ppb	0.05530	56.32%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	11.6	0.0183 ug/L	0.05515	0.0183 ppb	0.05515	300.73%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-2.8	-0.8586 ug/L	1.84716	-0.8586 ppb	1.84716	215.14%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-78.1	-2.2978 ug/L	3.30458	-2.2978 ppb	3.30458	143.81%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-7.6	-0.0569 ug/L	0.36767	-0.0569 ppb	0.36767	646.20%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	23.4	0.2192 ug/L	0.05379	0.2192 ppb	0.05379	24.54%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		36.3	2.4548 ug/L	1.55053	2.4548 ppb	1.55053	63.16%		
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: 1/12/2010 13:15:14

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	5072.5	5072.5	99.1 %		13:17:07
1	Y RADIAL	5458.5	5458.5	99.15 %		13:17:07
1	Al 396.153Radial†	261.2	269.9	215.41 ug/L	215.41 ppb	13:17:07
1	Ca 317.933Radial†	152.0	134.2	216.69 ug/L	216.69 ppb	13:17:27
1	Fe 238.204 Radial†	21.9	10.6	90.073 ug/L	90.073 ppb	13:17:27
1	K 766.490 Radial†	3378.5	899.2	163.53 ug/L	163.53 ppb	13:17:07
1	Mg 279.077 IEC†	9.7	6.7	223.91 ug/L	223.91 ppb	13:17:27
1	Na 589.592 Radial†	-206.1	1100.8	315.55 ug/L	315.55 ppb	13:17:07
1	Sr 421.552†	777.9	775.6	4.9502 ug/L	4.9502 ppb	13:17:07
1	Sc 361.383	867851.8	867851.8	101.14 %		13:18:24
1	Y 371.029	732628.4	732628.4	100.68 %		13:18:24
1	Ag 328.068†	1455.1	1081.6	4.9654 ug/L	4.9654 ppb	13:18:29
1	As 188.979†	45.4	68.8	29.453 ug/L	29.453 ppb	13:18:49
1	B 249.677†	1583.3	2180.6	48.915 ug/L	48.915 ppb	13:18:29
1	Ba 233.527†	642.5	643.9	5.0029 ug/L	5.0029 ppb	13:18:49
1	Be 313.107†	8400.4	12780.4	4.8398 ug/L	4.8398 ppb	13:18:29
1	Cd 226.502†	253.8	452.6	4.9829 ug/L	4.9829 ppb	13:18:49
1	Co 228.616†	158.0	233.5	4.7485 ug/L	4.7485 ppb	13:18:49
1	Cr 267.716†	509.0	424.3	4.6951 ug/L	4.6951 ppb	13:18:49
1	Cu 324.752†	9721.0	3209.0	9.5477 ug/L	9.5477 ppb	13:18:29
1	Mn 257.610†	9876.0	9334.9	10.237 ug/L	10.237 ppb	13:18:29
1	Mo 202.031†	159.9	136.5	9.5349 ug/L	9.5349 ppb	13:18:49
1	Ni 231.604†	265.7	195.7	4.8409 ug/L	4.8409 ppb	13:18:49
1	P 214.914†	464.5	238.9	141.23 ug/L	141.23 ppb	13:18:49
1	Pb 220.353†	9.7	71.8	8.7526 ug/L	8.7526 ppb	13:18:49
1	S 181.975 Axial†	122.9	77.6	108.00 ug/L	108.00 ppb	13:18:49
1	Sb 206.836†	63.0	28.8	10.119 ug/L	10.119 ppb	13:18:49
1	Se 196.026†	12.6	44.5	28.330 ug/L	28.330 ppb	13:18:49
1	Si 251.611†	3584.3	3083.3	97.488 ug/L	97.488 ppb	13:18:29
1	Sn 189.927†	58.7	56.4	9.8653 ug/L	9.8653 ppb	13:18:49
1	Ti 334.940†	1725.7	3040.4	4.8541 ug/L	4.8541 ppb	13:18:29
1	Tl 190.801†	39.4	73.1	22.120 ug/L	22.120 ppb	13:18:49
1	U 409.014†	-23.6	1840.5	54.161 ug/L	54.161 ppb	13:18:24
1	V 292.402†	-611.1	755.5	5.3493 ug/L	5.3493 ppb	13:18:29
1	Zn 213.857†	1755.3	1110.9	10.376 ug/L	10.376 ppb	13:18:49
1	SiO2†	3608.3	3108.7	209.41 ug/L	209.41 ppb	13:19:55
2	Sc Radial	5060.1	5060.1	98.8 %		13:17:32
2	Y RADIAL	5452.4	5452.4	99.04 %		13:17:32
2	Al 396.153Radial†	245.7	254.8	203.36 ug/L	203.36 ppb	13:17:32
2	Ca 317.933Radial†	144.1	126.6	204.32 ug/L	204.32 ppb	13:17:52
2	Fe 238.204 Radial†	22.7	11.4	97.409 ug/L	97.409 ppb	13:17:52
2	K 766.490 Radial†	3309.1	837.4	152.28 ug/L	152.28 ppb	13:17:32
2	Mg 279.077 IEC†	12.6	9.7	322.16 ug/L	322.16 ppb	13:17:52
2	Na 589.592 Radial†	-179.5	1127.3	323.13 ug/L	323.13 ppb	13:17:32
2	Sr 421.552†	766.3	765.8	4.8875 ug/L	4.8875 ppb	13:17:32
2	Sc 361.383	857551.6	857551.6	99.939 %		13:18:54
2	Y 371.029	725347.9	725347.9	99.682 %		13:18:54
2	Ag 328.068†	1468.5	1112.3	5.1069 ug/L	5.1069 ppb	13:18:59
2	As 188.979†	41.4	65.4	27.983 ug/L	27.983 ppb	13:19:20
2	B 249.677†	1646.3	2262.4	50.750 ug/L	50.750 ppb	13:18:59
2	Ba 233.527†	627.0	636.0	4.9413 ug/L	4.9413 ppb	13:19:20
2	Be 313.107†	8517.0	12996.9	4.9218 ug/L	4.9218 ppb	13:18:59
2	Cd 226.502†	246.5	448.3	4.9358 ug/L	4.9358 ppb	13:19:20
2	Co 228.616†	166.3	243.7	4.9545 ug/L	4.9545 ppb	13:19:20
2	Cr 267.716†	507.7	429.0	4.7470 ug/L	4.7470 ppb	13:19:20
2	Cu 324.752†	9880.2	3483.8	10.367 ug/L	10.367 ppb	13:18:59
2	Mn 257.610†	9864.5	9440.7	10.350 ug/L	10.350 ppb	13:18:59
2	Mo 202.031†	157.0	135.5	9.4648 ug/L	9.4648 ppb	13:19:20
2	Ni 231.604†	278.8	211.9	5.2417 ug/L	5.2417 ppb	13:19:20

2	P 214.914†	474.0	254.0	150.10 ug/L	150.10 ppb	13:19:20
2	Pb 220.353†	17.2	79.4	9.6676 ug/L	9.6676 ppb	13:19:20
2	S 181.975 Axial†	118.9	75.1	104.50 ug/L	104.50 ppb	13:19:20
2	Sb 206.836†	73.6	40.2	13.978 ug/L	13.978 ppb	13:19:20
2	Se 196.026†	11.2	43.2	27.549 ug/L	27.549 ppb	13:19:20
2	Si 251.611†	3602.3	3143.8	99.405 ug/L	99.405 ppb	13:18:59
2	Sn 189.927†	62.6	61.0	10.654 ug/L	10.654 ppb	13:19:20
2	Ti 334.940†	1773.8	3109.1	4.9540 ug/L	4.9540 ppb	13:18:59
2	Tl 190.801†	28.6	62.7	18.985 ug/L	18.985 ppb	13:19:20
2	U 409.014†	3.3	1867.2	54.945 ug/L	54.945 ppb	13:18:54
2	V 292.402†	-640.2	719.1	5.1041 ug/L	5.1041 ppb	13:18:59
2	Zn 213.857†	1761.7	1138.1	10.627 ug/L	10.627 ppb	13:19:20
2	SiO2†	3588.3	3131.5	210.96 ug/L	210.96 ppb	13:20:00
3	Sc Radial	5313.6	5313.6	104 %		13:17:57
3	Y RADIAL	5695.4	5695.4	103.5 %		13:17:57
3	Al 396.153Radial†	256.2	253.1	201.93 ug/L	201.93 ppb	13:17:57
3	Ca 317.933Radial†	143.5	119.1	192.24 ug/L	192.24 ppb	13:18:18
3	Fe 238.204 Radial†	23.1	10.7	90.971 ug/L	90.971 ppb	13:18:18
3	K 766.490 Radial†	3366.1	732.5	133.19 ug/L	133.19 ppb	13:17:57
3	Mg 279.077 IEC†	11.1	7.7	255.26 ug/L	255.26 ppb	13:18:18
3	Na 589.592 Radial†	-197.0	1119.0	320.76 ug/L	320.76 ppb	13:17:57
3	Sr 421.552†	762.9	725.5	4.6306 ug/L	4.6306 ppb	13:17:57
3	Sc 361.383	855818.5	855818.5	99.737 %		13:19:25
3	Y 371.029	723943.9	723943.9	99.489 %		13:19:25
3	Ag 328.068†	1367.5	1014.0	4.6585 ug/L	4.6585 ppb	13:19:30
3	As 188.979†	53.4	77.5	33.166 ug/L	33.166 ppb	13:19:50
3	B 249.677†	1602.2	2221.5	49.834 ug/L	49.834 ppb	13:19:30
3	Ba 233.527†	621.1	631.3	4.9054 ug/L	4.9054 ppb	13:19:50
3	Be 313.107†	8534.7	13031.8	4.9351 ug/L	4.9351 ppb	13:19:30
3	Cd 226.502†	247.1	449.4	4.9469 ug/L	4.9469 ppb	13:19:50
3	Co 228.616†	165.2	242.9	4.9398 ug/L	4.9398 ppb	13:19:50
3	Cr 267.716†	497.0	419.3	4.6413 ug/L	4.6413 ppb	13:19:50
3	Cu 324.752†	9737.0	3360.2	10.001 ug/L	10.001 ppb	13:19:30
3	Mn 257.610†	9958.5	9554.9	10.477 ug/L	10.477 ppb	13:19:30
3	Mo 202.031†	163.9	142.7	9.9685 ug/L	9.9685 ppb	13:19:50
3	Ni 231.604†	255.4	189.1	4.6763 ug/L	4.6763 ppb	13:19:50
3	P 214.914†	469.5	250.4	148.04 ug/L	148.04 ppb	13:19:50
3	Pb 220.353†	32.4	94.7	11.520 ug/L	11.520 ppb	13:19:50
3	S 181.975 Axial†	111.1	67.5	93.935 ug/L	93.935 ppb	13:19:50
3	Sb 206.836†	61.2	27.9	9.8257 ug/L	9.8257 ppb	13:19:50
3	Se 196.026†	18.7	50.7	32.271 ug/L	32.271 ppb	13:19:50
3	Si 251.611†	3583.7	3132.5	99.041 ug/L	99.041 ppb	13:19:30
3	Sn 189.927†	60.9	59.4	10.379 ug/L	10.379 ppb	13:19:50
3	Ti 334.940†	1792.6	3131.4	4.9954 ug/L	4.9954 ppb	13:19:30
3	Tl 190.801†	21.4	55.5	16.814 ug/L	16.814 ppb	13:19:50
3	U 409.014†	-127.5	1736.0	51.086 ug/L	51.086 ppb	13:19:25
3	V 292.402†	-605.6	752.5	5.3299 ug/L	5.3299 ppb	13:19:30
3	Zn 213.857†	1750.5	1130.4	10.559 ug/L	10.559 ppb	13:19:50
3	SiO2†	3596.2	3146.6	211.96 ug/L	211.96 ppb	13:20:05

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860407.3	100.27 %	0.758			0.76%
Sc Radial	5148.7	101 %	2.8			2.78%
Y 371.029	727306.7	99.951 %	0.6407			0.64%
Y RADIAL	5535.4	100.5 %	2.52			2.50%
Ag 328.068†	1069.3	4.9103 ug/L	0.22926	4.9103 ppb	0.22926	4.67%
QC value within limits for Ag 328.068 Recovery = 98.21%						
Al 396.153Radial†	259.3	206.90 ug/L	7.402	206.90 ppb	7.402	3.58%
QC value within limits for Al 396.153Radial Recovery = 103.45%						
As 188.979†	70.5	30.201 ug/L	2.6710	30.201 ppb	2.6710	8.84%
QC value within limits for As 188.979 Recovery = 100.67%						
B 249.677†	2221.5	49.833 ug/L	0.9173	49.833 ppb	0.9173	1.84%
QC value within limits for B 249.677 Recovery = 99.67%						
Ba 233.527†	637.0	4.9499 ug/L	0.04930	4.9499 ppb	0.04930	1.00%
QC value within limits for Ba 233.527 Recovery = 99.00%						
Be 313.107†	12936.4	4.8989 ug/L	0.05163	4.8989 ppb	0.05163	1.05%
QC value within limits for Be 313.107 Recovery = 97.98%						
Ca 317.933Radial†	126.6	204.42 ug/L	12.226	204.42 ppb	12.226	5.98%

QC value within limits for Ca 317.933Radial Recovery = 102.21%							
Cd 226.502†	450.1	4.9552 ug/L	0.02461	4.9552 ppb	0.02461	0.50%	
QC value within limits for Cd 226.502 Recovery = 99.10%							
Co 228.616†	240.0	4.8809 ug/L	0.11492	4.8809 ppb	0.11492	2.35%	
QC value within limits for Co 228.616 Recovery = 97.62%							
Cr 267.716†	424.2	4.6945 ug/L	0.05284	4.6945 ppb	0.05284	1.13%	
QC value within limits for Cr 267.716 Recovery = 93.89%							
Cu 324.752†	3351.0	9.9718 ug/L	0.41050	9.9718 ppb	0.41050	4.12%	
QC value within limits for Cu 324.752 Recovery = 99.72%							
Fe 238.204 Radial†	10.9	92.818 ug/L	4.0015	92.818 ppb	4.0015	4.31%	
QC value within limits for Fe 238.204 Radial Recovery = 92.82%							
K 766.490 Radial†	823.0	149.67 ug/L	15.339	149.67 ppb	15.339	10.25%	
QC value within limits for K 766.490 Radial Recovery = 99.78%							
Mg 279.077 IEC†	8.0	267.11 ug/L	50.184	267.11 ppb	50.184	18.79%	
QC value within limits for Mg 279.077 IEC Recovery = 89.04%							
Mn 257.610†	9443.5	10.355 ug/L	0.1201	10.355 ppb	0.1201	1.16%	
QC value within limits for Mn 257.610 Recovery = 103.55%							
Mo 202.031†	138.2	9.6561 ug/L	0.27283	9.6561 ppb	0.27283	2.83%	
QC value within limits for Mo 202.031 Recovery = 96.56%							
Na 589.592 Radial†	1115.7	319.81 ug/L	3.881	319.81 ppb	3.881	1.21%	
QC value within limits for Na 589.592 Radial Recovery = 106.60%							
Ni 231.604†	198.9	4.9196 ug/L	0.29084	4.9196 ppb	0.29084	5.91%	
QC value within limits for Ni 231.604 Recovery = 98.39%							
P 214.914†	247.8	146.46 ug/L	4.638	146.46 ppb	4.638	3.17%	
QC value within limits for P 214.914 Recovery = 97.64%							
Pb 220.353†	82.0	9.9802 ug/L	1.41008	9.9802 ppb	1.41008	14.13%	
QC value within limits for Pb 220.353 Recovery = 99.80%							
S 181.975 Axial†	73.4	102.14 ug/L	7.322	102.14 ppb	7.322	7.17%	
QC value within limits for S 181.975 Axial Recovery = 102.14%							
Sb 206.836†	32.3	11.307 ug/L	2.3171	11.307 ppb	2.3171	20.49%	
QC value within limits for Sb 206.836 Recovery = 113.07%							
Se 196.026†	46.2	29.383 ug/L	2.5306	29.383 ppb	2.5306	8.61%	
QC value within limits for Se 196.026 Recovery = 97.94%							
Si 251.611†	3119.9	98.645 ug/L	1.0184	98.645 ppb	1.0184	1.03%	
QC value within limits for Si 251.611 Recovery = 98.64%							
Sn 189.927†	58.9	10.299 ug/L	0.4003	10.299 ppb	0.4003	3.89%	
QC value within limits for Sn 189.927 Recovery = 102.99%							
Sr 421.552†	755.6	4.8228 ug/L	0.16938	4.8228 ppb	0.16938	3.51%	
QC value within limits for Sr 421.552 Recovery = 96.46%							
Ti 334.940†	3093.6	4.9345 ug/L	0.07263	4.9345 ppb	0.07263	1.47%	
QC value within limits for Ti 334.940 Recovery = 98.69%							
Tl 190.801†	63.8	19.306 ug/L	2.6676	19.306 ppb	2.6676	13.82%	
QC value within limits for Tl 190.801 Recovery = 96.53%							
U 409.014†	1814.6	53.398 ug/L	2.0395	53.398 ppb	2.0395	3.82%	
QC value within limits for U 409.014 Recovery = 106.80%							
V 292.402†	742.4	5.2611 ug/L	0.13633	5.2611 ppb	0.13633	2.59%	
QC value within limits for V 292.402 Recovery = 105.22%							
Zn 213.857†	1126.5	10.521 ug/L	0.1299	10.521 ppb	0.1299	1.23%	
QC value within limits for Zn 213.857 Recovery = 105.21%							
Sio2†	3128.9	210.78 ug/L	1.284	210.78 ppb	1.284	0.61%	
QC value within limits for Sio2 Recovery = 98.96%							
All analyte(s) passed QC.							

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 1/12/2010 13:22:16
 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	4817.3	4817.3	94.1 %		13:24:15
1	Y RADIAL	5136.5	5136.5	93.30 %		13:24:15
1	Al 396.153Radial†	573761.5	609935.9	487810 ug/L	487810 ppb	13:24:10
1	Ca 317.933Radial†	263181.8	279752.8	451590 ug/L	451590 ppb	13:24:10
1	Fe 238.204 Radial†	19492.7	20709.9	176090 ug/L	176090 ppb	13:24:15
1	K 766.490 Radial†	2332.2	-32.3	-156.94 ug/L	-156.94 ppb	13:24:15
1	Mg 279.077 IEC†	13027.3	13845.4	459580 ug/L	459580 ppb	13:24:15
1	Na 589.592 Radial†	-1051.6	191.0	54.759 ug/L	54.759 ppb	13:24:15
1	Sr 421.552†	558.9	584.4	0.3588 ug/L	0.3588 ppb	13:24:15
1	Sc 361.383	725568.7	725568.7	84.558 %		13:24:42
1	Y 371.029	596091.4	596091.4	81.919 %		13:24:42
1	Ag 328.068†	-9801.9	-11948.9	-3.8464 ug/L	-3.8464 ppb	13:24:42
1	As 188.979†	-98.7	-92.8	1.4302 ug/L	1.4302 ppb	13:25:02
1	B 249.677†	552.5	1268.5	-0.1280 ug/L	-0.1280 ppb	13:24:42
1	Ba 233.527†	-409.5	-475.7	1.7152 ug/L	1.7152 ppb	13:25:02
1	Be 313.107†	-4390.5	-717.6	-0.3234 ug/L	-0.3234 ppb	13:24:42
1	Cd 226.502†	1262.3	1694.5	0.4589 ug/L	0.4589 ppb	13:25:02
1	Co 228.616†	-7.2	68.7	-1.1464 ug/L	-1.1464 ppb	13:25:02
1	Cr 267.716†	-105.8	-204.0	1.1749 ug/L	1.1749 ppb	13:25:02
1	Cu 324.752†	4073.8	-1584.7	4.5768 ug/L	4.5768 ppb	13:24:42
1	Mn 257.610†	2225.8	2202.4	1.0087 ug/L	1.0087 ppb	13:24:42
1	Mo 202.031†	-210.2	-270.2	0.1861 ug/L	0.1861 ppb	13:25:02
1	Ni 231.604†	178.8	144.5	3.5745 ug/L	3.5745 ppb	13:25:02
1	P 214.914†	175.5	-12.7	-27.404 ug/L	-27.404 ppb	13:25:02
1	Pb 220.353†	-746.8	-821.0	5.8603 ug/L	5.8603 ppb	13:25:02
1	S 181.975 Axial†	88.7	61.0	-6.5613 ug/L	-6.5613 ppb	13:25:02
1	Sb 206.836†	52.2	28.3	-2.6917 ug/L	-2.6917 ppb	13:25:02
1	Se 196.026†	-801.7	-916.1	-28.770 ug/L	-28.770 ppb	13:25:02
1	Si 251.611†	536.8	174.1	5.7445 ug/L	5.7445 ppb	13:25:02
1	Sn 189.927†	-354.7	-421.2	5.4411 ug/L	5.4411 ppb	13:25:02
1	Ti 334.940†	-13276.1	-14366.5	0.7789 ug/L	0.7789 ppb	13:24:42
1	Tl 190.801†	-86.6	-68.3	-20.848 ug/L	-20.848 ppb	13:25:02
1	U 409.014†	-724.9	1006.6	9.5634 ug/L	9.5634 ppb	13:24:42
1	V 292.402†	1329.7	2932.2	-0.0103 ug/L	-0.0103 ppb	13:25:02
1	Zn 213.857†	2869.2	2768.5	8.8907 ug/L	8.8907 ppb	13:25:02
1	SiO2†	553.7	195.7	13.716 ug/L	13.716 ppb	13:25:58
2	Sc Radial	4532.2	4532.2	88.5 %		13:24:25
2	Y RADIAL	4831.5	4831.5	87.76 %		13:24:25
2	Al 396.153Radial†	569974.3	644014.7	515070 ug/L	515070 ppb	13:24:20
2	Ca 317.933Radial†	261076.2	294968.3	476160 ug/L	476160 ppb	13:24:20
2	Fe 238.204 Radial†	19365.5	21869.3	185950 ug/L	185950 ppb	13:24:25
2	K 766.490 Radial†	2347.6	141.0	-133.60 ug/L	-133.60 ppb	13:24:25
2	Mg 279.077 IEC†	13011.0	14698.0	487880 ug/L	487880 ppb	13:24:25
2	Na 589.592 Radial†	-1055.5	116.2	33.320 ug/L	33.320 ppb	13:24:25
2	Sr 421.552†	557.8	620.6	0.4065 ug/L	0.4065 ppb	13:24:25
2	Sc 361.383	725883.6	725883.6	84.595 %		13:25:07
2	Y 371.029	598473.2	598473.2	82.246 %		13:25:07
2	Ag 328.068†	-9770.6	-11907.0	-0.8017 ug/L	-0.8017 ppb	13:25:07
2	As 188.979†	-83.1	-74.3	11.621 ug/L	11.621 ppb	13:25:28
2	B 249.677†	446.6	1143.0	-4.5455 ug/L	-4.5455 ppb	13:25:07
2	Ba 233.527†	-430.3	-500.1	1.8255 ug/L	1.8255 ppb	13:25:28
2	Be 313.107†	-4402.1	-729.1	-0.3275 ug/L	-0.3275 ppb	13:25:07
2	Cd 226.502†	1261.3	1692.7	-0.5778 ug/L	-0.5778 ppb	13:25:28
2	Co 228.616†	-26.5	46.0	-1.7482 ug/L	-1.7482 ppb	13:25:28
2	Cr 267.716†	-106.6	-204.9	1.3539 ug/L	1.3539 ppb	13:25:28
2	Cu 324.752†	4055.2	-1608.8	5.0234 ug/L	5.0234 ppb	13:25:07
2	Mn 257.610†	2147.2	2108.4	0.7218 ug/L	0.7218 ppb	13:25:07
2	Mo 202.031†	-202.6	-261.1	1.8824 ug/L	1.8824 ppb	13:25:28
2	Ni 231.604†	186.3	153.3	3.7922 ug/L	3.7922 ppb	13:25:28

2	P 214.914†	163.3	-27.2	-37.227 ug/L	-37.227 ppb	13:25:28
2	Pb 220.353†	-734.6	-806.2	13.514 ug/L	13.514 ppb	13:25:28
2	S 181.975 Axial†	71.3	40.4	-40.277 ug/L	-40.277 ppb	13:25:28
2	Sb 206.836†	66.0	44.6	2.2667 ug/L	2.2667 ppb	13:25:28
2	Se 196.026†	-790.5	-902.4	10.571 ug/L	10.571 ppb	13:25:28
2	Si 251.611†	513.5	146.3	4.8566 ug/L	4.8566 ppb	13:25:28
2	Sn 189.927†	-345.0	-409.5	11.765 ug/L	11.765 ppb	13:25:28
2	Ti 334.940†	-13222.6	-14296.4	1.9126 ug/L	1.9126 ppb	13:25:07
2	Tl 190.801†	-73.8	-53.2	-16.283 ug/L	-16.283 ppb	13:25:28
2	U 409.014†	-548.8	1215.1	14.578 ug/L	14.578 ppb	13:25:07
2	V 292.402†	1292.1	2887.2	-1.3472 ug/L	-1.3472 ppb	13:25:28
2	Zn 213.857†	2899.3	2802.7	8.2535 ug/L	8.2535 ppb	13:25:28
2	SiO2†	485.3	114.7	8.2324 ug/L	8.2324 ppb	13:26:03
3	Sc Radial	4556.3	4556.3	89.0 %		13:24:35
3	Y RADIAL	4845.5	4845.5	88.01 %		13:24:35
3	Al 396.153Radial†	574684.7	645901.0	516570 ug/L	516570 ppb	13:24:30
3	Ca 317.933Radial†	263299.9	295906.7	477670 ug/L	477670 ppb	13:24:30
3	Fe 238.204 Radial†	19544.2	21954.3	186670 ug/L	186670 ppb	13:24:35
3	K 766.490 Radial†	2223.6	-12.4	-162.04 ug/L	-162.04 ppb	13:24:35
3	Mg 279.077 IEC†	13090.4	14709.4	488260 ug/L	488260 ppb	13:24:35
3	Na 589.592 Radial†	-1000.1	184.9	52.998 ug/L	52.998 ppb	13:24:35
3	Sr 421.552†	533.4	589.7	0.1984 ug/L	0.1984 ppb	13:24:35
3	Sc 361.383	732421.7	732421.7	85.357 %		13:25:33
3	Y 371.029	603682.2	603682.2	82.962 %		13:25:33
3	Ag 328.068†	-9954.9	-12019.7	-1.1058 ug/L	-1.1058 ppb	13:25:33
3	As 188.979†	-92.7	-84.6	7.3885 ug/L	7.3885 ppb	13:25:53
3	B 249.677†	464.1	1158.8	-4.3089 ug/L	-4.3089 ppb	13:25:33
3	Ba 233.527†	-457.7	-527.6	1.6354 ug/L	1.6354 ppb	13:25:53
3	Be 313.107†	-4441.3	-728.6	-0.3266 ug/L	-0.3266 ppb	13:25:33
3	Cd 226.502†	1315.0	1742.3	-0.1065 ug/L	-0.1065 ppb	13:25:53
3	Co 228.616†	-15.9	58.6	-1.5033 ug/L	-1.5033 ppb	13:25:53
3	Cr 267.716†	-75.5	-167.4	1.7832 ug/L	1.7832 ppb	13:25:53
3	Cu 324.752†	4010.8	-1703.6	4.7776 ug/L	4.7776 ppb	13:25:33
3	Mn 257.610†	2194.4	2141.0	0.8135 ug/L	0.8135 ppb	13:25:33
3	Mo 202.031†	-208.3	-265.7	1.6370 ug/L	1.6370 ppb	13:25:53
3	Ni 231.604†	186.8	151.8	3.7565 ug/L	3.7565 ppb	13:25:53
3	P 214.914†	171.5	-19.4	-32.722 ug/L	-32.722 ppb	13:25:53
3	Pb 220.353†	-737.7	-802.1	14.324 ug/L	14.324 ppb	13:25:53
3	S 181.975 Axial†	82.3	52.5	-23.694 ug/L	-23.694 ppb	13:25:53
3	Sb 206.836†	65.5	43.3	1.6863 ug/L	1.6863 ppb	13:25:53
3	Se 196.026†	-826.6	-936.3	-8.5818 ug/L	-8.5818 ppb	13:25:53
3	Si 251.611†	531.4	161.9	5.3548 ug/L	5.3548 ppb	13:25:53
3	Sn 189.927†	-380.4	-447.4	5.4380 ug/L	5.4380 ppb	13:25:53
3	Ti 334.940†	-13186.1	-14114.1	2.3783 ug/L	2.3783 ppb	13:25:33
3	Tl 190.801†	-86.9	-67.7	-20.655 ug/L	-20.655 ppb	13:25:53
3	U 409.014†	-487.0	1293.3	16.797 ug/L	16.797 ppb	13:25:33
3	V 292.402†	1338.7	2928.1	-1.1804 ug/L	-1.1804 ppb	13:25:53
3	Zn 213.857†	2895.0	2767.0	7.8493 ug/L	7.8493 ppb	13:25:53
3	SiO2†	561.9	199.3	13.947 ug/L	13.947 ppb	13:26:08

Mean Data: ICSCA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	727958.0	84.837 %	0.4509			0.53%
Sc Radial	4635.3	90.5 %	3.09			3.41%
Y 371.029	599415.6	82.375 %	0.5335			0.65%
Y RADIAL	4937.9	89.69 %	3.128			3.49%
Ag 328.068†	-11958.6	-1.9180 ug/L	1.67700	-1.9180 ppb	1.67700	87.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	633283.9	506480 ug/L	16188.9	506480 ppb	16188.9	3.20%
QC value within limits for Al 396.153Radial Recovery = 101.30%						
As 188.979†	-83.9	6.8132 ug/L	5.11967	6.8132 ppb	5.11967	75.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1190.1	-2.9941 ug/L	2.48497	-2.9941 ppb	2.48497	83.00%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-501.2	1.7254 ug/L	0.09545	1.7254 ppb	0.09545	5.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-725.1	-0.3258 ug/L	0.00216	-0.3258 ppb	0.00216	0.66%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	290209.2	468470 ug/L	14637.6	468470 ppb	14637.6	3.12%

QC value within limits for Ca 317.933 Radial Recovery = 93.69%							
Cd 226.502†	1709.8	-0.0751 ug/L	0.51910	-0.0751 ppb	0.51910	690.96%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	57.8	-1.4660 ug/L	0.30261	-1.4660 ppb	0.30261	20.64%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-192.1	1.4373 ug/L	0.31258	1.4373 ppb	0.31258	21.75%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1632.3	4.7926 ug/L	0.22368	4.7926 ppb	0.22368	4.67%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	21511.2	182910 ug/L	5911.6	182910 ppb	5911.6	3.23%	
QC value within limits for Fe 238.204 Radial Recovery = 91.45%							
K 766.490 Radial†	32.1	-150.86 ug/L	15.165	-150.86 ppb	15.165	10.05%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	14417.6	478580 ug/L	16449.3	478580 ppb	16449.3	3.44%	
QC value within limits for Mg 279.077 IEC Recovery = 95.72%							
Mn 257.610†	2150.6	0.8480 ug/L	0.14657	0.8480 ppb	0.14657	17.28%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-265.7	1.2352 ug/L	0.91677	1.2352 ppb	0.91677	74.22%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	164.1	47.026 ug/L	11.9018	47.026 ppb	11.9018	25.31%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	149.9	3.7077 ug/L	0.11676	3.7077 ppb	0.11676	3.15%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-19.8	-32.451 ug/L	4.9171	-32.451 ppb	4.9171	15.15%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-809.7	11.233 ug/L	4.6703	11.233 ppb	4.6703	41.58%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	51.3	-23.511 ug/L	16.8587	-23.511 ppb	16.8587	71.71%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	38.8	0.4204 ug/L	2.71073	0.4204 ppb	2.71073	644.73%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-918.3	-8.9269 ug/L	19.67264	-8.9269 ppb	19.67264	220.38%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	160.8	5.3186 ug/L	0.44505	5.3186 ppb	0.44505	8.37%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-426.0	7.5479 ug/L	3.65171	7.5479 ppb	3.65171	48.38%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	598.2	0.3212 ug/L	0.10905	0.3212 ppb	0.10905	33.95%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-14259.0	1.6899 ug/L	0.82264	1.6899 ppb	0.82264	48.68%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-63.1	-19.262 ug/L	2.5816	-19.262 ppb	2.5816	13.40%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	1171.7	13.646 ug/L	3.7058	13.646 ppb	3.7058	27.16%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	2915.8	-0.8460 ug/L	0.72849	-0.8460 ppb	0.72849	86.11%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	2779.4	8.3312 ug/L	0.52500	8.3312 ppb	0.52500	6.30%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	169.9	11.965 ug/L	3.2345	11.965 ppb	3.2345	27.03%	
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: 1/12/2010 13:28:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4483.1	4483.1	87.5 %		13:30:18
1	Y RADIAL	4796.8	4796.8	87.13 %		13:30:18
1	Al 396.153Radial†	588773.8	672553.3	537870 ug/L	537870 ppb	13:30:13
1	Ca 317.933Radial†	267848.1	305939.5	493870 ug/L	493870 ppb	13:30:13
1	Fe 238.204 Radial†	19620.8	22400.9	190480 ug/L	190480 ppb	13:30:18
1	K 766.490 Radial†	29237.9	30886.4	5456.5 ug/L	5456.5 ppb	13:30:13
1	Mg 279.077 IEC†	13218.4	15096.1	501100 ug/L	501100 ppb	13:30:18
1	Na 589.592 Radial†	15704.0	19247.3	5517.2 ug/L	5517.2 ppb	13:30:18
1	Sr 421.552†	70989.9	81080.9	513.98 ug/L	513.98 ppb	13:30:13
1	Sc 361.383	728554.1	728554.1	84.906 %		13:30:46
1	Y 371.029	599175.1	599175.1	82.342 %		13:30:46
1	Ag 328.068†	41297.9	48282.5	278.34 ug/L	278.34 ppb	13:30:46
1	As 188.979†	961.9	1156.8	542.32 ug/L	542.32 ppb	13:31:06
1	B 249.677†	20152.8	24350.5	514.31 ug/L	514.31 ppb	13:30:46
1	Ba 233.527†	54514.4	64214.1	504.50 ug/L	504.50 ppb	13:30:46
1	Be 313.107†	554513.1	657565.3	249.58 ug/L	249.58 ppb	13:30:46
1	Cd 226.502†	38105.3	45081.0	476.64 ug/L	476.64 ppb	13:30:46
1	Co 228.616†	19201.7	22692.4	457.82 ug/L	457.82 ppb	13:31:06
1	Cr 267.716†	37235.8	43776.3	489.93 ug/L	489.93 ppb	13:30:46
1	Cu 324.752†	163863.6	186591.7	566.41 ug/L	566.41 ppb	13:30:46
1	Mn 257.610†	379976.1	447095.8	488.63 ug/L	488.63 ppb	13:30:46
1	Mo 202.031†	5939.3	6973.5	507.24 ug/L	507.24 ppb	13:31:06
1	Ni 231.604†	15803.9	18546.3	458.68 ug/L	458.68 ppb	13:31:06
1	P 214.914†	3851.6	4316.0	2443.3 ug/L	2443.3 ppb	13:31:06
1	Pb 220.353†	2580.7	3101.7	492.55 ug/L	492.55 ppb	13:31:06
1	S 181.975 Axial†	1760.3	2029.3	2723.3 ug/L	2723.3 ppb	13:31:06
1	Sb 206.836†	1398.3	1613.4	551.65 ug/L	551.65 ppb	13:31:06
1	Se 196.026†	2668.6	3175.0	2594.5 ug/L	2594.5 ppb	13:31:06
1	Si 251.611†	144426.4	169640.9	5364.2 ug/L	5364.2 ppb	13:30:46
1	Sn 189.927†	2102.0	2474.1	517.13 ug/L	517.13 ppb	13:31:06
1	Ti 334.940†	263115.4	311224.4	524.08 ug/L	524.08 ppb	13:30:46
1	Tl 190.801†	1244.6	1500.0	456.30 ug/L	456.30 ppb	13:31:06
1	U 409.014†	14047.4	18408.5	519.12 ug/L	519.12 ppb	13:30:46
1	V 292.402†	65105.1	78038.8	515.35 ug/L	515.35 ppb	13:30:46
1	Zn 213.857†	48504.3	56502.4	508.25 ug/L	508.25 ppb	13:30:46
1	SiO2†	145640.3	171072.3	11525 ug/L	11525 ppb	13:32:03
2	Sc Radial	4519.8	4519.8	88.3 %		13:30:28
2	Y RADIAL	4815.9	4815.9	87.47 %		13:30:28
2	Al 396.153Radial†	589213.6	667579.2	533890 ug/L	533890 ppb	13:30:23
2	Ca 317.933Radial†	268892.3	304633.1	491760 ug/L	491760 ppb	13:30:23
2	Fe 238.204 Radial†	19571.4	22162.6	188460 ug/L	188460 ppb	13:30:28
2	K 766.490 Radial†	29239.5	30616.6	5408.1 ug/L	5408.1 ppb	13:30:23
2	Mg 279.077 IEC†	13185.6	14936.1	495790 ug/L	495790 ppb	13:30:28
2	Na 589.592 Radial†	15810.6	19222.2	5510.0 ug/L	5510.0 ppb	13:30:28
2	Sr 421.552†	70914.1	80335.2	509.23 ug/L	509.23 ppb	13:30:23
2	Sc 361.383	733184.3	733184.3	85.446 %		13:31:12
2	Y 371.029	601639.4	601639.4	82.681 %		13:31:12
2	Ag 328.068†	41438.9	48140.3	277.06 ug/L	277.06 ppb	13:31:12
2	As 188.979†	949.7	1135.4	532.71 ug/L	532.71 ppb	13:31:32
2	B 249.677†	20470.6	24572.5	519.63 ug/L	519.63 ppb	13:31:12
2	Ba 233.527†	55046.5	64431.4	506.13 ug/L	506.13 ppb	13:31:12
2	Be 313.107†	558335.9	657914.9	249.71 ug/L	249.71 ppb	13:31:12
2	Cd 226.502†	38347.7	45081.4	476.85 ug/L	476.85 ppb	13:31:12
2	Co 228.616†	19231.3	22584.3	455.65 ug/L	455.65 ppb	13:31:32
2	Cr 267.716†	37544.6	43860.8	490.83 ug/L	490.83 ppb	13:31:12
2	Cu 324.752†	165234.9	186977.8	567.45 ug/L	567.45 ppb	13:31:12
2	Mn 257.610†	383214.3	448059.5	489.71 ug/L	489.71 ppb	13:31:12
2	Mo 202.031†	5957.7	6950.9	505.49 ug/L	505.49 ppb	13:31:32
2	Ni 231.604†	15844.2	18476.0	456.95 ug/L	456.95 ppb	13:31:32

2	P 214.914†	3892.3	4335.0	2455.1 ug/L	2455.1 ppb	13:31:32
2	Pb 220.353†	2577.9	3079.2	489.04 ug/L	489.04 ppb	13:31:32
2	S 181.975 Axial†	1767.4	2024.6	2717.5 ug/L	2717.5 ppb	13:31:32
2	Sb 206.836†	1403.1	1608.7	550.05 ug/L	550.05 ppb	13:31:32
2	Se 196.026†	2681.3	3170.1	2585.2 ug/L	2585.2 ppb	13:31:32
2	Si 251.611†	145779.9	170150.8	5380.4 ug/L	5380.4 ppb	13:31:12
2	Sn 189.927†	2100.2	2456.3	513.65 ug/L	513.65 ppb	13:31:32
2	Ti 334.940†	265327.2	311856.0	525.24 ug/L	525.24 ppb	13:31:12
2	Tl 190.801†	1266.0	1515.7	461.07 ug/L	461.07 ppb	13:31:32
2	U 409.014†	14171.0	18448.7	520.53 ug/L	520.53 ppb	13:31:12
2	V 292.402†	65611.5	78147.2	516.29 ug/L	516.29 ppb	13:31:12
2	Zn 213.857†	48899.9	56604.7	509.42 ug/L	509.42 ppb	13:31:12
2	SiO2†	145779.6	170152.0	11463 ug/L	11463 ppb	13:32:09
3	Sc Radial	4490.9	4490.9	87.7 %		13:30:38
3	Y RADIAL	4789.9	4789.9	87.00 %		13:30:38
3	Al 396.153Radial†	586923.1	669266.9	535240 ug/L	535240 ppb	13:30:33
3	Ca 317.933Radial†	267727.2	305266.7	492780 ug/L	492780 ppb	13:30:33
3	Fe 238.204 Radial†	19497.5	22221.1	188960 ug/L	188960 ppb	13:30:38
3	K 766.490 Radial†	29149.7	30727.5	5427.9 ug/L	5427.9 ppb	13:30:33
3	Mg 279.077 IEC†	13142.9	14983.6	497370 ug/L	497370 ppb	13:30:38
3	Na 589.592 Radial†	15586.7	19082.2	5469.9 ug/L	5469.9 ppb	13:30:38
3	Sr 421.552†	70636.8	80536.5	510.51 ug/L	510.51 ppb	13:30:33
3	Sc 361.383	734264.3	734264.3	85.571 %		13:31:38
3	Y 371.029	603129.9	603129.9	82.886 %		13:31:38
3	Ag 328.068†	41696.1	48369.6	278.27 ug/L	278.27 ppb	13:31:38
3	As 188.979†	955.2	1140.2	534.87 ug/L	534.87 ppb	13:31:58
3	B 249.677†	20625.3	24718.1	522.82 ug/L	522.82 ppb	13:31:38
3	Ba 233.527†	55192.3	64507.1	506.73 ug/L	506.73 ppb	13:31:38
3	Be 313.107†	560643.0	659649.8	250.37 ug/L	250.37 ppb	13:31:38
3	Cd 226.502†	38435.1	45117.4	477.19 ug/L	477.19 ppb	13:31:38
3	Co 228.616†	19090.4	22386.5	451.61 ug/L	451.61 ppb	13:31:58
3	Cr 267.716†	37631.0	43897.2	491.24 ug/L	491.24 ppb	13:31:38
3	Cu 324.752†	166044.4	187639.4	569.46 ug/L	569.46 ppb	13:31:38
3	Mn 257.610†	384387.6	448770.9	490.47 ug/L	490.47 ppb	13:31:38
3	Mo 202.031†	5901.3	6874.7	500.22 ug/L	500.22 ppb	13:31:58
3	Ni 231.604†	15681.5	18258.6	451.57 ug/L	451.57 ppb	13:31:58
3	P 214.914†	3816.0	4239.1	2396.9 ug/L	2396.9 ppb	13:31:58
3	Pb 220.353†	2552.5	3045.0	485.18 ug/L	485.18 ppb	13:31:58
3	S 181.975 Axial†	1730.8	1978.7	2653.4 ug/L	2653.4 ppb	13:31:58
3	Sb 206.836†	1402.5	1605.6	548.81 ug/L	548.81 ppb	13:31:58
3	Se 196.026†	2658.5	3138.9	2567.0 ug/L	2567.0 ppb	13:31:58
3	Si 251.611†	146215.5	170408.8	5388.6 ug/L	5388.6 ppb	13:31:38
3	Sn 189.927†	2091.6	2442.6	511.43 ug/L	511.43 ppb	13:31:58
3	Ti 334.940†	266337.0	312579.2	526.41 ug/L	526.41 ppb	13:31:38
3	Tl 190.801†	1227.9	1469.0	447.00 ug/L	447.00 ppb	13:31:58
3	U 409.014†	14160.0	18411.5	519.38 ug/L	519.38 ppb	13:31:38
3	V 292.402†	65764.9	78213.5	516.60 ug/L	516.60 ppb	13:31:38
3	Zn 213.857†	49091.7	56744.5	510.71 ug/L	510.71 ppb	13:31:38
3	SiO2†	146206.7	170400.2	11480 ug/L	11480 ppb	13:32:14

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	732000.9	85.308 %	0.3535			0.41%
Sc Radial	4497.9	87.8 %	0.38			0.43%
Y 371.029	601314.8	82.636 %	0.2745			0.33%
Y RADIAL	4800.9	87.20 %	0.244			0.28%
Ag 328.068†	48264.1	277.89 ug/L	0.717	277.89 ppb	0.717	0.26%
QC value within limits for Ag 328.068 Recovery = 111.16%						
Al 396.153Radial†	669799.8	535660 ug/L	2022.9	535660 ppb	2022.9	0.38%
QC value within limits for Al 396.153Radial Recovery = 107.13%						
As 188.979†	1144.1	536.63 ug/L	5.044	536.63 ppb	5.044	0.94%
QC value within limits for As 188.979 Recovery = 107.33%						
B 249.677†	24547.1	518.92 ug/L	4.302	518.92 ppb	4.302	0.83%
QC value within limits for B 249.677 Recovery = 103.78%						
Ba 233.527†	64384.2	505.79 ug/L	1.151	505.79 ppb	1.151	0.23%
QC value within limits for Ba 233.527 Recovery = 101.16%						
Be 313.107†	658376.7	249.88 ug/L	0.424	249.88 ppb	0.424	0.17%
QC value within limits for Be 313.107 Recovery = 99.95%						
Ca 317.933Radial†	305279.8	492800 ug/L	1054.6	492800 ppb	1054.6	0.21%

QC value within limits for Ca 317.933 Radial Recovery = 98.56%							
Cd 226.502†	45093.2	476.89 ug/L	0.279	476.89 ppb	0.279	0.06%	
QC value within limits for Cd 226.502 Recovery = 95.38%							
Co 228.616†	22554.4	455.03 ug/L	3.149	455.03 ppb	3.149	0.69%	
QC value within limits for Co 228.616 Recovery = 91.01%							
Cr 267.716†	43844.8	490.67 ug/L	0.671	490.67 ppb	0.671	0.14%	
QC value within limits for Cr 267.716 Recovery = 98.13%							
Cu 324.752†	187069.6	567.77 ug/L	1.547	567.77 ppb	1.547	0.27%	
QC value within limits for Cu 324.752 Recovery = 113.55%							
Fe 238.204 Radial†	22261.6	189300 ug/L	1056.1	189300 ppb	1056.1	0.56%	
QC value within limits for Fe 238.204 Radial Recovery = 94.65%							
K 766.490 Radial†	30743.5	5430.8 ug/L	24.35	5430.8 ppb	24.35	0.45%	
QC value within limits for K 766.490 Radial Recovery = 108.62%							
Mg 279.077 IEC†	15005.3	498090 ug/L	2727.0	498090 ppb	2727.0	0.55%	
QC value within limits for Mg 279.077 IEC Recovery = 99.62%							
Mn 257.610†	447975.4	489.60 ug/L	0.924	489.60 ppb	0.924	0.19%	
QC value within limits for Mn 257.610 Recovery = 97.92%							
Mo 202.031†	6933.0	504.32 ug/L	3.653	504.32 ppb	3.653	0.72%	
QC value within limits for Mo 202.031 Recovery = 100.86%							
Na 589.592 Radial†	19183.9	5499.1 ug/L	25.50	5499.1 ppb	25.50	0.46%	
QC value within limits for Na 589.592 Radial Recovery = 109.98%							
Ni 231.604†	18427.0	455.73 ug/L	3.711	455.73 ppb	3.711	0.81%	
QC value within limits for Ni 231.604 Recovery = 91.15%							
P 214.914†	4296.7	2431.7 ug/L	30.76	2431.7 ppb	30.76	1.27%	
QC value within limits for P 214.914 Recovery = 97.27%							
Pb 220.353†	3075.3	488.92 ug/L	3.684	488.92 ppb	3.684	0.75%	
QC value within limits for Pb 220.353 Recovery = 97.78%							
S 181.975 Axial†	2010.9	2698.1 ug/L	38.79	2698.1 ppb	38.79	1.44%	
QC value within limits for S 181.975 Axial Recovery = 107.92%							
Sb 206.836†	1609.3	550.17 ug/L	1.425	550.17 ppb	1.425	0.26%	
QC value within limits for Sb 206.836 Recovery = 110.03%							
Se 196.026†	3161.3	2582.2 ug/L	13.96	2582.2 ppb	13.96	0.54%	
QC value within limits for Se 196.026 Recovery = 103.29%							
Si 251.611†	170066.8	5377.7 ug/L	12.41	5377.7 ppb	12.41	0.23%	
QC value within limits for Si 251.611 Recovery = 107.55%							
Sn 189.927†	2457.7	514.07 ug/L	2.871	514.07 ppb	2.871	0.56%	
QC value within limits for Sn 189.927 Recovery = 102.81%							
Sr 421.552†	80650.9	511.24 ug/L	2.456	511.24 ppb	2.456	0.48%	
QC value within limits for Sr 421.552 Recovery = 102.25%							
Ti 334.940†	311886.5	525.24 ug/L	1.163	525.24 ppb	1.163	0.22%	
QC value within limits for Ti 334.940 Recovery = 105.05%							
Tl 190.801†	1494.9	454.79 ug/L	7.156	454.79 ppb	7.156	1.57%	
QC value within limits for Tl 190.801 Recovery = 90.96%							
U 409.014†	18422.9	519.68 ug/L	0.751	519.68 ppb	0.751	0.14%	
QC value within limits for U 409.014 Recovery = 103.94%							
V 292.402†	78133.2	516.08 ug/L	0.653	516.08 ppb	0.653	0.13%	
QC value within limits for V 292.402 Recovery = 103.22%							
Zn 213.857†	56617.2	509.46 ug/L	1.232	509.46 ppb	1.232	0.24%	
QC value within limits for Zn 213.857 Recovery = 101.89%							
SiO2†	170541.5	11490 ug/L	32.1	11490 ppb	32.1	0.28%	
QC value within limits for SiO2 Recovery = 107.43%							

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 1/12/2010 13:34:24
 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	4464.7	4464.7	87.2 %		13:36:22
1	Y RADIAL	4798.4	4798.4	87.16 %		13:36:22
1	Al 396.153Radial†	556865.1	638718.0	510830 ug/L	510830 ppb	13:36:17
1	Ca 317.933Radial†	254440.1	291817.9	471070 ug/L	471070 ppb	13:36:17
1	Fe 238.204 Radial†	45321.3	51971.0	441900 ug/L	441900 ppb	13:36:22
1	K 766.490 Radial†	2855.7	763.9	-211.40 ug/L	-211.40 ppb	13:36:17
1	Mg 279.077 IEC†	12918.2	14813.8	491460 ug/L	491460 ppb	13:36:22
1	Na 589.592 Radial†	1503666.2	1725980.3	494750 ug/L	494750 ppb	13:36:17
1	Sr 421.552†	783.4	888.8	2.1573 ug/L	2.1573 ppb	13:36:22
1	Sc 361.383	711484.0	711484.0	82.917 %		13:36:50
1	Y 371.029	586561.8	586561.8	80.609 %		13:36:50
1	Ag 328.068†	-22744.9	-27788.2	-2.8534 ug/L	-2.8534 ppb	13:36:50
1	As 188.979†	-190.9	-206.3	15.228 ug/L	15.228 ppb	13:37:10
1	B 249.677†	1770.1	2749.9	-10.056 ug/L	-10.056 ppb	13:36:50
1	Ba 233.527†	-1228.4	-1472.9	2.1142 ug/L	2.1142 ppb	13:37:10
1	Be 313.107†	-11159.1	-8983.6	-3.4478 ug/L	-3.4478 ppb	13:36:50
1	Cd 226.502†	3288.9	4168.1	3.1407 ug/L	3.1407 ppb	13:37:10
1	Co 228.616†	178.2	292.1	-0.5092 ug/L	-0.5092 ppb	13:37:10
1	Cr 267.716†	-46.2	-134.7	1.1808 ug/L	1.1808 ppb	13:37:10
1	Cu 324.752†	1406.3	-4706.3	1.0193 ug/L	1.0193 ppb	13:36:50
1	Mn 257.610†	-17768.8	-21859.6	-0.4414 ug/L	-0.4414 ppb	13:36:50
1	Mo 202.031†	-483.9	-605.2	-2.3204 ug/L	-2.3204 ppb	13:37:10
1	Ni 231.604†	244.3	227.7	5.6305 ug/L	5.6305 ppb	13:37:10
1	P 214.914†	530.6	419.6	25.974 ug/L	25.974 ppb	13:37:10
1	Pb 220.353†	-535.1	-583.2	14.911 ug/L	14.911 ppb	13:37:10
1	S 181.975 Axial†	108.6	87.1	25.489 ug/L	25.489 ppb	13:37:10
1	Sb 206.836†	55.6	33.6	1.3220 ug/L	1.3220 ppb	13:37:10
1	Se 196.026†	-1843.4	-2191.2	-41.309 ug/L	-41.309 ppb	13:37:10
1	Si 251.611†	-324.8	-852.4	-26.465 ug/L	-26.465 ppb	13:37:10
1	Sn 189.927†	-371.7	-450.0	8.1703 ug/L	8.1703 ppb	13:37:10
1	Ti 334.940†	-13324.4	-14735.5	-6.3885 ug/L	-6.3885 ppb	13:36:50
1	Tl 190.801†	-103.1	-90.2	-27.648 ug/L	-27.648 ppb	13:37:10
1	U 409.014†	422307.1	511179.2	14998 ug/L	14998 ppb	13:36:50
1	V 292.402†	3420.1	5484.4	3.1854 ug/L	3.1854 ppb	13:37:10
1	Zn 213.857†	5572.3	6095.7	14.338 ug/L	14.338 ppb	13:37:10
1	SiO2†	-237.5	-745.4	-49.127 ug/L	-49.127 ppb	13:38:07
2	Sc Radial	4409.0	4409.0	86.1 %		13:36:32
2	Y RADIAL	4715.4	4715.4	85.65 %		13:36:32
2	Al 396.153Radial†	566394.5	657857.3	526140 ug/L	526140 ppb	13:36:27
2	Ca 317.933Radial†	258654.0	300400.0	484920 ug/L	484920 ppb	13:36:27
2	Fe 238.204 Radial†	44605.9	51796.9	440420 ug/L	440420 ppb	13:36:32
2	K 766.490 Radial†	2767.4	702.7	-232.49 ug/L	-232.49 ppb	13:36:27
2	Mg 279.077 IEC†	12686.9	14732.5	488760 ug/L	488760 ppb	13:36:32
2	Na 589.592 Radial†	1525827.1	1773513.9	508380 ug/L	508380 ppb	13:36:27
2	Sr 421.552†	730.7	839.0	1.7355 ug/L	1.7355 ppb	13:36:32
2	Sc 361.383	719543.3	719543.3	83.856 %		13:37:16
2	Y 371.029	593151.9	593151.9	81.515 %		13:37:16
2	Ag 328.068†	-23042.1	-27835.2	-3.7792 ug/L	-3.7792 ppb	13:37:16
2	As 188.979†	-183.0	-194.4	19.979 ug/L	19.979 ppb	13:37:36
2	B 249.677†	1835.7	2804.2	-8.5991 ug/L	-8.5991 ppb	13:37:16
2	Ba 233.527†	-1336.1	-1584.8	1.2023 ug/L	1.2023 ppb	13:37:36
2	Be 313.107†	-11191.8	-8871.9	-3.4040 ug/L	-3.4040 ppb	13:37:16
2	Cd 226.502†	3260.0	4089.3	2.4363 ug/L	2.4363 ppb	13:37:36
2	Co 228.616†	215.3	334.0	0.3626 ug/L	0.3626 ppb	13:37:36
2	Cr 267.716†	-117.7	-219.3	0.1922 ug/L	0.1922 ppb	13:37:36
2	Cu 324.752†	1283.4	-4871.9	0.4186 ug/L	0.4186 ppb	13:37:16
2	Mn 257.610†	-18335.1	-22294.9	-0.9546 ug/L	-0.9546 ppb	13:37:16
2	Mo 202.031†	-484.1	-599.0	-1.8333 ug/L	-1.8333 ppb	13:37:36
2	Ni 231.604†	249.5	230.5	5.6999 ug/L	5.6999 ppb	13:37:36

2	P 214.914†	555.8	442.5	44.828 ug/L	44.828 ppb	13:37:36
2	Pb 220.353†	-510.9	-547.1	23.241 ug/L	23.241 ppb	13:37:36
2	S 181.975 Axial†	91.5	65.3	-7.7785 ug/L	-7.7785 ppb	13:37:36
2	Sb 206.836†	58.2	36.0	1.6658 ug/L	1.6658 ppb	13:37:36
2	Se 196.026†	-1884.9	-2215.7	-60.376 ug/L	-60.376 ppb	13:37:36
2	Si 251.611†	-341.0	-867.3	-26.942 ug/L	-26.942 ppb	13:37:36
2	Sn 189.927†	-388.7	-465.2	7.8128 ug/L	7.8128 ppb	13:37:36
2	Ti 334.940†	-13119.9	-14311.7	-3.6294 ug/L	-3.6294 ppb	13:37:16
2	Tl 190.801†	-95.2	-79.5	-24.405 ug/L	-24.405 ppb	13:37:36
2	U 409.014†	428548.5	512917.6	15049 ug/L	15049 ppb	13:37:16
2	V 292.402†	3449.2	5472.9	3.3994 ug/L	3.3994 ppb	13:37:36
2	Zn 213.857†	5608.9	6064.0	14.185 ug/L	14.185 ppb	13:37:36
2	SiO2†	-365.3	-894.6	-59.204 ug/L	-59.204 ppb	13:38:12
3	Sc Radial	4450.5	4450.5	86.9 %		13:36:43
3	Y RADIAL	4751.9	4751.9	86.31 %		13:36:43
3	Al 396.153Radial†	571201.7	657256.8	525660 ug/L	525660 ppb	13:36:38
3	Ca 317.933Radial†	259752.4	298863.7	482440 ug/L	482440 ppb	13:36:38
3	Fe 238.204 Radial†	44822.5	51563.2	438430 ug/L	438430 ppb	13:36:43
3	K 766.490 Radial†	2810.0	721.7	-227.83 ug/L	-227.83 ppb	13:36:38
3	Mg 279.077 IEC†	12795.3	14719.9	488350 ug/L	488350 ppb	13:36:43
3	Na 589.592 Radial†	1537296.0	1770191.5	507430 ug/L	507430 ppb	13:36:38
3	Sr 421.552†	748.6	851.6	1.8346 ug/L	1.8346 ppb	13:36:43
3	Sc 361.383	715943.4	715943.4	83.436 %		13:37:41
3	Y 371.029	590304.5	590304.5	81.123 %		13:37:41
3	Ag 328.068†	-23205.4	-28169.2	-5.9238 ug/L	-5.9238 ppb	13:37:41
3	As 188.979†	-195.0	-209.8	12.899 ug/L	12.899 ppb	13:38:02
3	B 249.677†	1931.3	2929.8	-5.4572 ug/L	-5.4572 ppb	13:37:41
3	Ba 233.527†	-1316.3	-1569.1	1.2654 ug/L	1.2654 ppb	13:38:02
3	Be 313.107†	-11292.7	-9059.9	-3.4760 ug/L	-3.4760 ppb	13:37:41
3	Cd 226.502†	3298.2	4154.6	3.3612 ug/L	3.3612 ppb	13:38:02
3	Co 228.616†	206.7	325.0	0.2132 ug/L	0.2132 ppb	13:38:02
3	Cr 267.716†	-56.0	-146.1	0.9636 ug/L	0.9636 ppb	13:38:02
3	Cu 324.752†	1308.1	-4834.7	0.4197 ug/L	0.4197 ppb	13:37:41
3	Mn 257.610†	-18005.6	-22009.8	-0.8210 ug/L	-0.8210 ppb	13:37:41
3	Mo 202.031†	-460.9	-574.0	-0.2765 ug/L	-0.2765 ppb	13:38:02
3	Ni 231.604†	242.8	223.9	5.5378 ug/L	5.5378 ppb	13:38:02
3	P 214.914†	563.3	454.9	53.677 ug/L	53.677 ppb	13:38:02
3	Pb 220.353†	-503.3	-541.1	24.009 ug/L	24.009 ppb	13:38:02
3	S 181.975 Axial†	114.3	93.1	31.104 ug/L	31.104 ppb	13:38:02
3	Sb 206.836†	46.6	22.4	-2.9306 ug/L	-2.9306 ppb	13:38:02
3	Se 196.026†	-1872.1	-2211.8	-63.781 ug/L	-63.781 ppb	13:38:02
3	Si 251.611†	-302.7	-823.5	-25.576 ug/L	-25.576 ppb	13:38:02
3	Sn 189.927†	-390.8	-470.0	6.5217 ug/L	6.5217 ppb	13:38:02
3	Ti 334.940†	-13264.5	-14563.6	-4.3396 ug/L	-4.3396 ppb	13:37:41
3	Tl 190.801†	-122.8	-113.1	-34.545 ug/L	-34.545 ppb	13:38:02
3	U 409.014†	426654.0	513216.7	15058 ug/L	15058 ppb	13:37:41
3	V 292.402†	3536.6	5598.4	4.6073 ug/L	4.6073 ppb	13:38:02
3	Zn 213.857†	5622.9	6114.5	14.853 ug/L	14.853 ppb	13:38:02
3	SiO2†	-318.5	-840.7	-55.615 ug/L	-55.615 ppb	13:38:17

Mean Data: LRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	715656.9	83.403 %		0.4705			0.56%
Sc Radial	4441.4	86.7 %		0.57			0.65%
Y 371.029	590006.1	81.082 %		0.4542			0.56%
Y RADIAL	4755.2	86.37 %		0.756			0.88%
Ag 328.068†	-27930.9	-4.1855 ug/L		1.57501	-4.1855 ppb	1.57501	37.63%
Al 396.153Radial†	651277.4	520880 ug/L		8702.2	520880 ppb	8702.2	1.67%
QC value within limits for Al 396.153Radial Recovery = 104.18%							
As 188.979†	-203.5	16.036 ug/L		3.6084	16.036 ppb	3.6084	22.50%
B 249.677†	2828.0	-8.0375 ug/L		2.35037	-8.0375 ppb	2.35037	29.24%
Ba 233.527†	-1542.2	1.5273 ug/L		0.50926	1.5273 ppb	0.50926	33.34%
Be 313.107†	-8971.8	-3.4426 ug/L		0.03626	-3.4426 ppb	0.03626	1.05%
Ca 317.933Radial†	297027.2	479480 ug/L		7387.4	479480 ppb	7387.4	1.54%
QC value within limits for Ca 317.933Radial Recovery = 95.90%							
Cd 226.502†	4137.3	2.9794 ug/L		0.48309	2.9794 ppb	0.48309	16.21%
Co 228.616†	317.0	0.0222 ug/L		0.46625	0.0222 ppb	0.46625	>999.9%
Cr 267.716†	-166.7	0.7789 ug/L		0.51955	0.7789 ppb	0.51955	66.71%
Cu 324.752†	-4804.3	0.6192 ug/L		0.34648	0.6192 ppb	0.34648	55.95%

Fe 238.204 Radial†	51777.0	440250 ug/L	1739.6	440250 ppb	1739.6	0.40%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.05%						
K 766.490 Radial†	729.5	-223.91 ug/L	11.080	-223.91 ppb	11.080	4.95%
Mg 279.077 IEC†	14755.4	489520 ug/L	1692.1	489520 ppb	1692.1	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 97.90%						
Mn 257.610†	-22054.8	-0.7390 ug/L	0.26623	-0.7390 ppb	0.26623	36.03%
Mo 202.031†	-592.7	-1.4768 ug/L	1.06758	-1.4768 ppb	1.06758	72.29%
Na 589.592 Radial†	1756561.9	503520 ug/L	7606.7	503520 ppb	7606.7	1.51%
QC value within limits for Na 589.592 Radial Recovery = 100.70%						
Ni 231.604†	227.4	5.6227 ug/L	0.08130	5.6227 ppb	0.08130	1.45%
P 214.914†	439.0	41.493 ug/L	14.1492	41.493 ppb	14.1492	34.10%
Pb 220.353†	-557.1	20.721 ug/L	5.0461	20.721 ppb	5.0461	24.35%
S 181.975 Axial†	81.8	16.271 ug/L	21.0162	16.271 ppb	21.0162	129.16%
Sb 206.836†	30.6	0.0191 ug/L	2.56025	0.0191 ppb	2.56025	>999.9%
Se 196.026†	-2206.2	-55.156 ug/L	12.1116	-55.156 ppb	12.1116	21.96%
Si 251.611†	-847.8	-26.328 ug/L	0.6934	-26.328 ppb	0.6934	2.63%
Sn 189.927†	-461.7	7.5016 ug/L	0.86723	7.5016 ppb	0.86723	11.56%
Sr 421.552†	859.8	1.9091 ug/L	0.22055	1.9091 ppb	0.22055	11.55%
Ti 334.940†	-14536.9	-4.7859 ug/L	1.43264	-4.7859 ppb	1.43264	29.93%
Tl 190.801†	-94.3	-28.866 ug/L	5.1786	-28.866 ppb	5.1786	17.94%
U 409.014†	512437.8	15035 ug/L	32.6	15035 ppb	32.6	0.22%
QC value within limits for U 409.014 Recovery = 100.24%						
V 292.402†	5518.6	3.7307 ug/L	0.76667	3.7307 ppb	0.76667	20.55%
Zn 213.857†	6091.4	14.459 ug/L	0.3497	14.459 ppb	0.3497	2.42%
SiO2†	-826.9	-54.649 ug/L	5.1080	-54.649 ppb	5.1080	9.35%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
 Date Collected: 1/12/2010 13:40:26
 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	5006.2	5006.2	97.8 %		13:42:24
1	Y RADIAL	5292.0	5292.0	96.12 %		13:42:24
1	Al 396.153Radial†	588.5	608.2	10.130 ug/L	10.130 ppb	13:42:24
1	Ca 317.933Radial†	27.5	8.9	14.403 ug/L	14.403 ppb	13:42:44
1	Fe 238.204 Radial†	-21.1	-33.2	10.434 ug/L	10.434 ppb	13:42:44
1	K 766.490 Radial†	1587709.7	1621579.2	295280 ug/L	295280 ppb	13:42:19
1	Mg 279.077 IEC†	-6.1	-9.3	-205.20 ug/L	-205.20 ppb	13:42:44
1	Na 589.592 Radial†	-76.6	1230.5	352.73 ug/L	352.73 ppb	13:42:24
1	Sr 421.552†	1478874.0	1512751.4	9658.2 ug/L	9658.2 ppb	13:42:19
1	Sc 361.383	833594.2	833594.2	97.147 %		13:44:02
1	Y 371.029	684561.0	684561.0	94.077 %		13:44:02
1	Ag 328.068†	-8495.5	-9102.0	3.5744 ug/L	3.5744 ppb	13:44:07
1	As 188.979†	22899.7	23596.0	10150 ug/L	10150 ppb	13:44:07
1	B 249.677†	218747.3	225785.6	5040.0 ug/L	5040.0 ppb	13:44:02
1	Ba 233.527†	1769898.7	1821877.9	14138 ug/L	14138 ppb	13:44:02
1	Be 313.107†	7464541.6	7688202.3	2927.3 ug/L	2927.3 ppb	13:43:55
1	Cd 226.502†	860248.9	885710.6	9749.6 ug/L	9749.6 ppb	13:44:02
1	Co 228.616†	467767.9	481580.5	9770.1 ug/L	9770.1 ppb	13:44:02
1	Cr 267.716†	2112081.6	2174021.0	24135 ug/L	24135 ppb	13:44:02
1	Cu 324.752†	6548134.3	6734009.0	20088 ug/L	20088 ppb	13:43:55
1	Mn 257.610†	8350987.4	8595772.9	9426.7 ug/L	9426.7 ppb	13:43:55
1	Mo 202.031†	136763.1	140757.4	9821.5 ug/L	9821.5 ppb	13:44:07
1	Ni 231.604†	386673.4	397960.5	9842.4 ug/L	9842.4 ppb	13:44:02
1	P 214.914†	31467.2	32170.9	14628 ug/L	14628 ppb	13:44:07
1	Pb 220.353†	194857.3	200641.2	24292 ug/L	24292 ppb	13:44:07
1	S 181.975 Axial†	36484.1	37511.5	52203 ug/L	52203 ppb	13:44:07
1	Sb 206.836†	30011.9	30859.7	10827 ug/L	10827 ppb	13:44:07
1	Se 196.026†	15639.3	16130.5	10188 ug/L	10188 ppb	13:44:07
1	Si 251.611†	1500256.3	1543848.6	48752 ug/L	48752 ppb	13:44:02
1	Sn 189.927†	58479.8	60195.3	10486 ug/L	10486 ppb	13:44:07
1	Ti 334.940†	6004470.7	6182118.0	9890.5 ug/L	9890.5 ppb	13:43:55
1	Tl 190.801†	31031.1	31976.4	9719.0 ug/L	9719.0 ppb	13:44:07
1	U 409.014†	-610.0	1236.0	-17.559 ug/L	-17.559 ppb	13:44:07
1	V 292.402†	1443166.5	1486902.8	10206 ug/L	10206 ppb	13:44:02
1	Zn 213.857†	1471504.9	1514089.0	14123 ug/L	14123 ppb	13:44:02
1	SiO2†	1521551.2	1565770.5	105340 ug/L	105340 ppb	13:44:54
2	Sc Radial	4972.9	4972.9	97.1 %		13:42:54
2	Y RADIAL	5231.2	5231.2	95.02 %		13:42:54
2	Al 396.153Radial†	568.3	591.4	-10.105 ug/L	-10.105 ppb	13:42:54
2	Ca 317.933Radial†	27.3	8.9	14.308 ug/L	14.308 ppb	13:43:14
2	Fe 238.204 Radial†	-22.6	-34.9	-3.0238 ug/L	-3.0238 ppb	13:43:14
2	K 766.490 Radial†	1583874.0	1628517.4	296550 ug/L	296550 ppb	13:42:49
2	Mg 279.077 IEC†	-5.9	-9.1	-196.57 ug/L	-196.57 ppb	13:43:14
2	Na 589.592 Radial†	-125.8	1179.3	338.06 ug/L	338.06 ppb	13:42:54
2	Sr 421.552†	1474713.4	1518608.6	9695.6 ug/L	9695.6 ppb	13:42:49
2	Sc 361.383	823486.6	823486.6	95.969 %		13:44:21
2	Y 371.029	676051.6	676051.6	92.907 %		13:44:21
2	Ag 328.068†	-8718.4	-9441.6	2.1097 ug/L	2.1097 ppb	13:44:27
2	As 188.979†	23013.1	24003.6	10325 ug/L	10325 ppb	13:44:27
2	B 249.677†	215907.9	225590.8	5035.5 ug/L	5035.5 ppb	13:44:21
2	Ba 233.527†	1757527.0	1831348.6	14212 ug/L	14212 ppb	13:44:21
2	Be 313.107†	7514387.8	7834453.6	2983.0 ug/L	2983.0 ppb	13:44:15
2	Cd 226.502†	854150.1	890224.5	9799.3 ug/L	9799.3 ppb	13:44:21
2	Co 228.616†	463831.9	483389.2	9806.7 ug/L	9806.7 ppb	13:44:21
2	Cr 267.716†	2095736.6	2183674.9	24242 ug/L	24242 ppb	13:44:21
2	Cu 324.752†	6596230.7	6866858.4	20485 ug/L	20485 ppb	13:44:15
2	Mn 257.610†	8410772.6	8763580.4	9610.7 ug/L	9610.7 ppb	13:44:15
2	Mo 202.031†	137039.0	142772.8	9962.1 ug/L	9962.1 ppb	13:44:27
2	Ni 231.604†	383734.9	399784.0	9887.5 ug/L	9887.5 ppb	13:44:21

2	P 214.914†	31725.4	32837.5	14936 ug/L	14936 ppb	13:44:27
2	Pb 220.353†	195069.0	203323.8	24617 ug/L	24617 ppb	13:44:27
2	S 181.975 Axial†	36587.1	38079.8	52994 ug/L	52994 ppb	13:44:27
2	Sb 206.836†	30179.3	31413.3	11020 ug/L	11020 ppb	13:44:27
2	Se 196.026†	15684.9	16375.7	10342 ug/L	10342 ppb	13:44:27
2	Si 251.611†	1482853.4	1544669.9	48776 ug/L	48776 ppb	13:44:21
2	Sn 189.927†	58669.8	61132.2	10649 ug/L	10649 ppb	13:44:27
2	Ti 334.940†	6049254.2	6304646.3	10087 ug/L	10087 ppb	13:44:15
2	Tl 190.801†	31134.0	32475.6	9872.1 ug/L	9872.1 ppb	13:44:27
2	U 409.014†	-515.5	1326.7	-15.126 ug/L	-15.126 ppb	13:44:27
2	V 292.402†	1428802.1	1490169.0	10230 ug/L	10230 ppb	13:44:21
2	Zn 213.857†	1460915.1	1521646.3	14193 ug/L	14193 ppb	13:44:21
2	SiO2†	1535905.2	1599951.5	107640 ug/L	107640 ppb	13:45:01
3	Sc Radial	4910.6	4910.6	95.9 %		13:43:25
3	Y RADIAL	5187.9	5187.9	94.23 %		13:43:25
3	Al 396.153Radial†	561.3	591.5	-7.2377 ug/L	-7.2377 ppb	13:43:25
3	Ca 317.933Radial†	23.2	5.0	8.0876 ug/L	8.0876 ppb	13:43:45
3	Fe 238.204 Radial†	-20.0	-32.4	17.627 ug/L	17.627 ppb	13:43:45
3	K 766.490 Radial†	1580271.0	1645440.6	299630 ug/L	299630 ppb	13:43:20
3	Mg 279.077 IEC†	-5.2	-8.4	-175.73 ug/L	-175.73 ppb	13:43:45
3	Na 589.592 Radial†	-142.1	1160.7	332.71 ug/L	332.71 ppb	13:43:25
3	Sr 421.552†	1472610.5	1535670.9	9804.5 ug/L	9804.5 ppb	13:43:20
3	Sc 361.383	835061.6	835061.6	97.318 %		13:44:41
3	Y 371.029	686100.8	686100.8	94.288 %		13:44:41
3	Ag 328.068†	-8790.5	-9389.8	2.3599 ug/L	2.3599 ppb	13:44:47
3	As 188.979†	23204.8	23868.1	10267 ug/L	10267 ppb	13:44:47
3	B 249.677†	220158.3	226839.9	5063.5 ug/L	5063.5 ppb	13:44:41
3	Ba 233.527†	1778069.6	1827072.5	14179 ug/L	14179 ppb	13:44:41
3	Be 313.107†	7580665.1	7794023.5	2967.6 ug/L	2967.6 ppb	13:44:35
3	Cd 226.502†	864042.9	888053.1	9775.4 ug/L	9775.4 ppb	13:44:41
3	Co 228.616†	469681.3	482700.5	9792.7 ug/L	9792.7 ppb	13:44:41
3	Cr 267.716†	2120105.2	2178445.3	24184 ug/L	24184 ppb	13:44:41
3	Cu 324.752†	6666298.4	6843584.5	20415 ug/L	20415 ppb	13:44:35
3	Mn 257.610†	8485289.8	8718670.5	9561.5 ug/L	9561.5 ppb	13:44:35
3	Mo 202.031†	138163.1	141948.5	9904.6 ug/L	9904.6 ppb	13:44:47
3	Ni 231.604†	388508.7	399146.9	9871.7 ug/L	9871.7 ppb	13:44:41
3	P 214.914†	32007.5	32669.1	14850 ug/L	14850 ppb	13:44:47
3	Pb 220.353†	196807.3	202292.5	24492 ug/L	24492 ppb	13:44:47
3	S 181.975 Axial†	36966.2	37941.0	52800 ug/L	52800 ppb	13:44:47
3	Sb 206.836†	30379.5	31183.1	10940 ug/L	10940 ppb	13:44:47
3	Se 196.026†	15797.8	16265.2	10273 ug/L	10273 ppb	13:44:47
3	Si 251.611†	1506806.7	1547865.8	48878 ug/L	48878 ppb	13:44:41
3	Sn 189.927†	59214.1	60844.1	10599 ug/L	10599 ppb	13:44:47
3	Ti 334.940†	6105556.4	6275127.9	10039 ug/L	10039 ppb	13:44:35
3	Tl 190.801†	31428.3	32328.4	9827.1 ug/L	9827.1 ppb	13:44:47
3	U 409.014†	-536.5	1312.6	-15.415 ug/L	-15.415 ppb	13:44:47
3	V 292.402†	1449052.6	1490340.6	10230 ug/L	10230 ppb	13:44:41
3	Zn 213.857†	1477927.9	1518027.3	14160 ug/L	14160 ppb	13:44:41
3	SiO2†	1526967.6	1568583.9	105530 ug/L	105530 ppb	13:45:09

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830714.1	96.812 %	0.7344			0.76%
Sc Radial	4963.2	96.9 %	0.95			0.98%
Y 371.029	682237.8	93.757 %	0.7438			0.79%
Y RADIAL	5237.0	95.13 %	0.950			1.00%
Ag 328.068†	-9311.2	2.6813 ug/L	0.78349	2.6813 ppb	0.78349	29.22%
Al 396.153Radial†	597.0	-2.4041 ug/L	10.94916	-2.4041 ppb	10.94916	455.44%
As 188.979†	23822.6	10247 ug/L	89.5	10247 ppb	89.5	0.87%
QC value within limits for As 188.979 Recovery = 102.47%						
B 249.677†	226072.1	5046.3 ug/L	15.08	5046.3 ppb	15.08	0.30%
QC value within limits for B 249.677 Recovery = 100.93%						
Ba 233.527†	1826766.3	14176 ug/L	36.8	14176 ppb	36.8	0.26%
QC value within limits for Ba 233.527 Recovery = 94.51%						
Be 313.107†	7772226.5	2959.3 ug/L	28.77	2959.3 ppb	28.77	0.97%
QC value within limits for Be 313.107 Recovery = 98.64%						
Ca 317.933Radial†	7.6	12.266 ug/L	3.6192	12.266 ppb	3.6192	29.51%
Cd 226.502†	887996.1	9774.8 ug/L	24.85	9774.8 ppb	24.85	0.25%
QC value within limits for Cd 226.502 Recovery = 97.75%						

Co 228.616†	482556.8	9789.8 ug/L	18.47	9789.8 ppb	18.47	0.19%
QC value within limits for Co 228.616 Recovery = 97.90%						
Cr 267.716†	2178713.8	24187 ug/L	53.6	24187 ppb	53.6	0.22%
QC value within limits for Cr 267.716 Recovery = 96.75%						
Cu 324.752†	6814817.3	20330 ug/L	211.6	20330 ppb	211.6	1.04%
QC value within limits for Cu 324.752 Recovery = 101.65%						
Fe 238.204 Radial†	-33.5	8.3456 ug/L	10.48241	8.3456 ppb	10.48241	125.60%
K 766.490 Radial†	1631845.7	297150 ug/L	2235.1	297150 ppb	2235.1	0.75%
QC value within limits for K 766.490 Radial Recovery = 99.05%						
Mg 279.077 IEC†	-8.9	-192.50 ug/L	15.153	-192.50 ppb	15.153	7.87%
Mn 257.610†	8692674.6	9533.0 ug/L	95.27	9533.0 ppb	95.27	1.00%
QC value within limits for Mn 257.610 Recovery = 95.33%						
Mo 202.031†	141826.2	9896.0 ug/L	70.70	9896.0 ppb	70.70	0.71%
QC value within limits for Mo 202.031 Recovery = 98.96%						
Na 589.592 Radial†	1190.2	341.17 ug/L	10.369	341.17 ppb	10.369	3.04%
Ni 231.604†	398963.8	9867.2 ug/L	22.89	9867.2 ppb	22.89	0.23%
QC value within limits for Ni 231.604 Recovery = 98.67%						
P 214.914†	32559.2	14805 ug/L	158.7	14805 ppb	158.7	1.07%
QC value within limits for P 214.914 Recovery = 98.70%						
Pb 220.353†	202085.8	24467 ug/L	163.8	24467 ppb	163.8	0.67%
QC value within limits for Pb 220.353 Recovery = 97.87%						
S 181.975 Axial†	37844.1	52666 ug/L	412.3	52666 ppb	412.3	0.78%
QC value within limits for S 181.975 Axial Recovery = 105.33%						
Sb 206.836†	31152.1	10929 ug/L	96.8	10929 ppb	96.8	0.89%
QC value within limits for Sb 206.836 Recovery = 109.29%						
Se 196.026†	16257.1	10268 ug/L	77.5	10268 ppb	77.5	0.75%
QC value within limits for Se 196.026 Recovery = 102.68%						
Si 251.611†	1545461.4	48802 ug/L	66.9	48802 ppb	66.9	0.14%
QC value within limits for Si 251.611 Recovery = 97.60%						
Sn 189.927†	60723.9	10578 ug/L	83.6	10578 ppb	83.6	0.79%
QC value within limits for Sn 189.927 Recovery = 105.78%						
Sr 421.552†	1522343.6	9719.4 ug/L	76.02	9719.4 ppb	76.02	0.78%
QC value within limits for Sr 421.552 Recovery = 97.19%						
Ti 334.940†	6253964.1	10005 ug/L	102.4	10005 ppb	102.4	1.02%
QC value within limits for Ti 334.940 Recovery = 100.05%						
Tl 190.801†	32260.1	9806.1 ug/L	78.65	9806.1 ppb	78.65	0.80%
QC value within limits for Tl 190.801 Recovery = 98.06%						
U 409.014†	1291.8	-16.033 ug/L	1.3293	-16.033 ppb	1.3293	8.29%
V 292.402†	1489137.5	10222 ug/L	14.0	10222 ppb	14.0	0.14%
QC value within limits for V 292.402 Recovery = 102.22%						
Zn 213.857†	1517920.8	14159 ug/L	35.1	14159 ppb	35.1	0.25%
QC value within limits for Zn 213.857 Recovery = 94.39%						
SiO2†	1578101.9	106170 ug/L	1278.2	106170 ppb	1278.2	1.20%
QC value within limits for SiO2 Recovery = 99.23%						
All analyte(s) passed QC.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/12/2010 13:47:18

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	5177.0	5177.0	101 %		13:49:10
1	Y RADIAL	5491.9	5491.9	99.75 %		13:49:10
1	Al 396.153Radial†	6429.9	6366.4	5067.5 ug/L	5067.5 ppb	13:49:10
1	Ca 317.933Radial†	3189.4	3135.7	5061.8 ug/L	5061.8 ppb	13:49:30
1	Fe 238.204 Radial†	612.7	594.5	5069.6 ug/L	5069.6 ppb	13:49:30
1	K 766.490 Radial†	32445.2	29582.2	5380.8 ug/L	5380.8 ppb	13:49:10
1	Mg 279.077 IEC†	160.4	155.6	5166.8 ug/L	5166.8 ppb	13:49:30
1	Na 589.592 Radial†	33017.2	33968.4	9737.1 ug/L	9737.1 ppb	13:49:10
1	Sr 421.552†	77720.7	76868.9	490.73 ug/L	490.73 ppb	13:49:10
1	Sc 361.383	868006.0	868006.0	101.16 %		13:50:28
1	Y 371.029	719503.4	719503.4	98.879 %		13:50:28
1	Ag 328.068†	110283.0	108663.7	501.73 ug/L	501.73 ppb	13:50:33
1	As 188.979†	1206.4	1216.6	524.31 ug/L	524.31 ppb	13:50:53
1	B 249.677†	22879.4	23232.6	519.21 ug/L	519.21 ppb	13:50:33
1	Ba 233.527†	64660.3	63928.8	496.57 ug/L	496.57 ppb	13:50:33
1	Be 313.107†	1334592.0	1323792.1	501.27 ug/L	501.27 ppb	13:50:28
1	Cd 226.502†	45743.9	45422.0	499.56 ug/L	499.56 ppb	13:50:33
1	Co 228.616†	24816.8	24610.0	499.45 ug/L	499.45 ppb	13:50:33
1	Cr 267.716†	45137.2	44541.7	494.78 ug/L	494.78 ppb	13:50:33
1	Cu 324.752†	173290.2	164904.5	491.92 ug/L	491.92 ppb	13:50:33
1	Mn 257.610†	461133.5	455425.9	499.74 ug/L	499.74 ppb	13:50:28
1	Mo 202.031†	7263.1	7158.3	499.93 ug/L	499.93 ppb	13:50:53
1	Ni 231.604†	20382.2	20081.9	496.66 ug/L	496.66 ppb	13:50:33
1	P 214.914†	4438.4	4167.2	2386.6 ug/L	2386.6 ppb	13:50:53
1	Pb 220.353†	4126.8	4141.7	502.94 ug/L	502.94 ppb	13:50:53
1	S 181.975 Axial†	790.6	737.7	1025.7 ug/L	1025.7 ppb	13:50:53
1	Sb 206.836†	1551.2	1500.0	526.51 ug/L	526.51 ppb	13:50:53
1	Se 196.026†	785.3	808.3	525.85 ug/L	525.85 ppb	13:50:53
1	Si 251.611†	80367.7	78987.2	2494.3 ug/L	2494.3 ppb	13:50:33
1	Sn 189.927†	2918.6	2883.5	503.24 ug/L	503.24 ppb	13:50:53
1	Ti 334.940†	307172.1	304990.6	488.24 ug/L	488.24 ppb	13:50:33
1	Tl 190.801†	1654.0	1669.2	507.24 ug/L	507.24 ppb	13:50:53
1	U 409.014†	15380.6	17068.5	500.79 ug/L	500.79 ppb	13:50:33
1	V 292.402†	72145.6	72679.6	499.64 ug/L	499.64 ppb	13:50:33
1	Zn 213.857†	54676.8	53426.3	497.21 ug/L	497.21 ppb	13:50:33
1	SiO2†	79766.5	78394.6	5274.0 ug/L	5274.0 ppb	13:52:00
2	Sc Radial	5246.9	5246.9	102 %		13:49:36
2	Y RADIAL	5550.3	5550.3	100.8 %		13:49:36
2	Al 396.153Radial†	6503.6	6353.7	5057.4 ug/L	5057.4 ppb	13:49:36
2	Ca 317.933Radial†	3182.1	3086.5	4982.4 ug/L	4982.4 ppb	13:49:56
2	Fe 238.204 Radial†	609.3	583.1	4972.9 ug/L	4972.9 ppb	13:49:56
2	K 766.490 Radial†	32524.2	29232.0	5317.1 ug/L	5317.1 ppb	13:49:36
2	Mg 279.077 IEC†	157.8	150.9	5012.1 ug/L	5012.1 ppb	13:49:56
2	Na 589.592 Radial†	33169.4	33682.2	9655.0 ug/L	9655.0 ppb	13:49:36
2	Sr 421.552†	78280.3	76391.7	487.69 ug/L	487.69 ppb	13:49:36
2	Sc 361.383	873768.5	873768.5	101.83 %		13:50:59
2	Y 371.029	726636.0	726636.0	99.859 %		13:50:59
2	Ag 328.068†	112260.1	109886.3	507.33 ug/L	507.33 ppb	13:51:04
2	As 188.979†	1204.6	1206.9	520.20 ug/L	520.20 ppb	13:51:24
2	B 249.677†	23422.9	23617.3	527.84 ug/L	527.84 ppb	13:51:04
2	Ba 233.527†	66029.4	64851.8	503.74 ug/L	503.74 ppb	13:51:04
2	Be 313.107†	1350630.0	1330841.1	503.95 ug/L	503.95 ppb	13:50:59
2	Cd 226.502†	46798.8	46159.7	507.69 ug/L	507.69 ppb	13:51:04
2	Co 228.616†	25366.3	24987.8	507.10 ug/L	507.10 ppb	13:51:04
2	Cr 267.716†	46167.2	45258.8	502.74 ug/L	502.74 ppb	13:51:04
2	Cu 324.752†	176530.6	166956.9	498.04 ug/L	498.04 ppb	13:51:04
2	Mn 257.610†	464653.6	455876.5	500.23 ug/L	500.23 ppb	13:50:59
2	Mo 202.031†	7288.2	7135.6	498.34 ug/L	498.34 ppb	13:51:24
2	Ni 231.604†	20903.5	20461.0	506.04 ug/L	506.04 ppb	13:51:04

2	P 214.914†	4454.2	4153.9	2377.1 ug/L	2377.1 ppb	13:51:24
2	Pb 220.353†	4149.5	4137.2	502.38 ug/L	502.38 ppb	13:51:24
2	S 181.975 Axial†	788.2	730.2	1015.2 ug/L	1015.2 ppb	13:51:24
2	Sb 206.836†	1572.0	1510.3	529.94 ug/L	529.94 ppb	13:51:24
2	Se 196.026†	782.6	800.6	520.67 ug/L	520.67 ppb	13:51:24
2	Si 251.611†	81994.6	80061.0	2528.3 ug/L	2528.3 ppb	13:51:04
2	Sn 189.927†	2924.6	2870.4	500.94 ug/L	500.94 ppb	13:51:24
2	Ti 334.940†	313457.4	309160.4	494.91 ug/L	494.91 ppb	13:51:04
2	Tl 190.801†	1659.7	1664.0	505.68 ug/L	505.68 ppb	13:51:24
2	U 409.014†	15766.7	17347.3	509.00 ug/L	509.00 ppb	13:51:04
2	V 292.402†	73683.6	73719.6	506.69 ug/L	506.69 ppb	13:51:04
2	Zn 213.857†	55806.5	54179.3	504.22 ug/L	504.22 ppb	13:51:04
2	SiO2†	80255.5	78354.8	5271.4 ug/L	5271.4 ppb	13:52:06
3	Sc Radial	5130.0	5130.0	100 %		13:50:01
3	Y RADIAL	5423.6	5423.6	98.51 %		13:50:01
3	Al 396.153Radial†	6390.8	6385.7	5083.1 ug/L	5083.1 ppb	13:50:01
3	Ca 317.933Radial†	3186.0	3161.1	5102.9 ug/L	5102.9 ppb	13:50:21
3	Fe 238.204 Radial†	607.0	594.4	5069.1 ug/L	5069.1 ppb	13:50:21
3	K 766.490 Radial†	31597.0	29029.5	5280.2 ug/L	5280.2 ppb	13:50:01
3	Mg 279.077 IEC†	160.9	157.6	5233.5 ug/L	5233.5 ppb	13:50:21
3	Na 589.592 Radial†	32421.8	33673.3	9652.5 ug/L	9652.5 ppb	13:50:01
3	Sr 421.552†	76645.0	76499.5	488.38 ug/L	488.38 ppb	13:50:01
3	Sc 361.383	868771.5	868771.5	101.25 %		13:51:30
3	Y 371.029	720865.1	720865.1	99.066 %		13:51:30
3	Ag 328.068†	111191.5	109465.0	505.41 ug/L	505.41 ppb	13:51:35
3	As 188.979†	1187.7	1197.0	515.99 ug/L	515.99 ppb	13:51:55
3	B 249.677†	23084.9	23415.7	523.31 ug/L	523.31 ppb	13:51:35
3	Ba 233.527†	65402.3	64605.4	501.82 ug/L	501.82 ppb	13:51:35
3	Be 313.107†	1336110.4	1324129.2	501.41 ug/L	501.41 ppb	13:51:30
3	Cd 226.502†	46413.6	46043.6	506.40 ug/L	506.40 ppb	13:51:35
3	Co 228.616†	25140.8	24908.4	505.49 ug/L	505.49 ppb	13:51:35
3	Cr 267.716†	45601.4	44960.8	499.43 ug/L	499.43 ppb	13:51:35
3	Cu 324.752†	174463.8	165912.6	494.93 ug/L	494.93 ppb	13:51:35
3	Mn 257.610†	462230.6	456107.9	500.48 ug/L	500.48 ppb	13:51:30
3	Mo 202.031†	7205.2	7094.8	495.50 ug/L	495.50 ppb	13:51:55
3	Ni 231.604†	20662.1	20340.6	503.06 ug/L	503.06 ppb	13:51:35
3	P 214.914†	4407.1	4132.5	2365.0 ug/L	2365.0 ppb	13:51:55
3	Pb 220.353†	4122.2	4133.6	501.94 ug/L	501.94 ppb	13:51:55
3	S 181.975 Axial†	779.2	725.7	1008.9 ug/L	1008.9 ppb	13:51:55
3	Sb 206.836†	1537.6	1485.2	521.36 ug/L	521.36 ppb	13:51:55
3	Se 196.026†	789.4	811.7	527.97 ug/L	527.97 ppb	13:51:55
3	Si 251.611†	81240.0	79778.8	2519.4 ug/L	2519.4 ppb	13:51:35
3	Sn 189.927†	2902.8	2865.4	500.09 ug/L	500.09 ppb	13:51:55
3	Ti 334.940†	309892.7	307410.1	492.10 ug/L	492.10 ppb	13:51:35
3	Tl 190.801†	1655.0	1668.7	507.09 ug/L	507.09 ppb	13:51:55
3	U 409.014†	15673.8	17344.6	508.91 ug/L	508.91 ppb	13:51:35
3	V 292.402†	72819.4	73282.2	503.67 ug/L	503.67 ppb	13:51:35
3	Zn 213.857†	55205.1	53900.5	501.61 ug/L	501.61 ppb	13:51:35
3	SiO2†	80144.5	78698.4	5294.6 ug/L	5294.6 ppb	13:52:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870182.0	101.41 %		0.365			0.36%
Sc Radial	5184.6	101 %		1.1			1.13%
Y 371.029	722334.8	99.268 %		0.5204			0.52%
Y RADIAL	5488.6	99.69 %		1.152			1.16%
Ag 328.068†	109338.3	504.82 ug/L		2.847	504.82 ppb	2.847	0.56%
QC value within limits for Ag 328.068 Recovery = 100.96%							
Al 396.153Radial†	6368.6	5069.3 ug/L		12.97	5069.3 ppb	12.97	0.26%
QC value within limits for Al 396.153Radial Recovery = 101.39%							
As 188.979†	1206.8	520.17 ug/L		4.158	520.17 ppb	4.158	0.80%
QC value within limits for As 188.979 Recovery = 104.03%							
B 249.677†	23421.9	523.45 ug/L		4.316	523.45 ppb	4.316	0.82%
QC value within limits for B 249.677 Recovery = 104.69%							
Ba 233.527†	64462.0	500.71 ug/L		3.709	500.71 ppb	3.709	0.74%
QC value within limits for Ba 233.527 Recovery = 100.14%							
Be 313.107†	1326254.1	502.21 ug/L		1.509	502.21 ppb	1.509	0.30%
QC value within limits for Be 313.107 Recovery = 100.44%							
Ca 317.933Radial†	3127.8	5049.0 ug/L		61.26	5049.0 ppb	61.26	1.21%

QC value within limits for Ca 317.933 Radial Recovery = 100.98%							
Cd	226.502†	45875.1	504.55 ug/L	4.371	504.55 ppb	4.371	0.87%
QC value within limits for Cd 226.502 Recovery = 100.91%							
Co	228.616†	24835.4	504.02 ug/L	4.033	504.02 ppb	4.033	0.80%
QC value within limits for Co 228.616 Recovery = 100.80%							
Cr	267.716†	44920.4	498.99 ug/L	4.000	498.99 ppb	4.000	0.80%
QC value within limits for Cr 267.716 Recovery = 99.80%							
Cu	324.752†	165924.7	494.96 ug/L	3.057	494.96 ppb	3.057	0.62%
QC value within limits for Cu 324.752 Recovery = 98.99%							
Fe	238.204 Radial†	590.6	5037.2 ug/L	55.64	5037.2 ppb	55.64	1.10%
QC value within limits for Fe 238.204 Radial Recovery = 100.74%							
K	766.490 Radial†	29281.2	5326.1 ug/L	50.90	5326.1 ppb	50.90	0.96%
QC value within limits for K 766.490 Radial Recovery = 106.52%							
Mg	279.077 IEC†	154.7	5137.5 ug/L	113.61	5137.5 ppb	113.61	2.21%
QC value within limits for Mg 279.077 IEC Recovery = 102.75%							
Mn	257.610†	455803.4	500.15 ug/L	0.379	500.15 ppb	0.379	0.08%
QC value within limits for Mn 257.610 Recovery = 100.03%							
Mo	202.031†	7129.6	497.92 ug/L	2.244	497.92 ppb	2.244	0.45%
QC value within limits for Mo 202.031 Recovery = 99.58%							
Na	589.592 Radial†	33774.6	9681.5 ug/L	48.12	9681.5 ppb	48.12	0.50%
QC value within limits for Na 589.592 Radial Recovery = 96.82%							
Ni	231.604†	20294.5	501.92 ug/L	4.791	501.92 ppb	4.791	0.95%
QC value within limits for Ni 231.604 Recovery = 100.38%							
P	214.914†	4151.2	2376.2 ug/L	10.82	2376.2 ppb	10.82	0.46%
QC value within limits for P 214.914 Recovery = 95.05%							
Pb	220.353†	4137.5	502.42 ug/L	0.499	502.42 ppb	0.499	0.10%
QC value within limits for Pb 220.353 Recovery = 100.48%							
S	181.975 Axial†	731.2	1016.6 ug/L	8.47	1016.6 ppb	8.47	0.83%
QC value within limits for S 181.975 Axial Recovery = 101.66%							
Sb	206.836†	1498.5	525.94 ug/L	4.316	525.94 ppb	4.316	0.82%
QC value within limits for Sb 206.836 Recovery = 105.19%							
Se	196.026†	806.9	524.83 ug/L	3.758	524.83 ppb	3.758	0.72%
QC value within limits for Se 196.026 Recovery = 104.97%							
Si	251.611†	79609.0	2514.0 ug/L	17.64	2514.0 ppb	17.64	0.70%
QC value within limits for Si 251.611 Recovery = 100.56%							
Sn	189.927†	2873.1	501.42 ug/L	1.628	501.42 ppb	1.628	0.32%
QC value within limits for Sn 189.927 Recovery = 100.28%							
Sr	421.552†	76586.7	488.93 ug/L	1.597	488.93 ppb	1.597	0.33%
QC value within limits for Sr 421.552 Recovery = 97.79%							
Ti	334.940†	307187.1	491.75 ug/L	3.350	491.75 ppb	3.350	0.68%
QC value within limits for Ti 334.940 Recovery = 98.35%							
Tl	190.801†	1667.3	506.67 ug/L	0.861	506.67 ppb	0.861	0.17%
QC value within limits for Tl 190.801 Recovery = 101.33%							
U	409.014†	17253.5	506.23 ug/L	4.711	506.23 ppb	4.711	0.93%
QC value within limits for U 409.014 Recovery = 101.25%							
V	292.402†	73227.1	503.34 ug/L	3.535	503.34 ppb	3.535	0.70%
QC value within limits for V 292.402 Recovery = 100.67%							
Zn	213.857†	53835.4	501.01 ug/L	3.543	501.01 ppb	3.543	0.71%
QC value within limits for Zn 213.857 Recovery = 100.20%							
SiO2†		78482.6	5280.0 ug/L	12.73	5280.0 ppb	12.73	0.24%
QC value within limits for SiO2 Recovery = 98.74%							
All analyte(s) passed QC.							

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/12/2010 13:54:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5283.0	5283.0	103 %		13:56:13
1	Y RADIAL	5629.2	5629.2	102.2 %		13:56:13
1	Al 396.153Radial†	-0.8	5.4	4.3122 ug/L	4.3122 ppb	13:56:13
1	Ca 317.933Radial†	19.3	-0.5	-0.8525 ug/L	-0.8525 ppb	13:56:33
1	Fe 238.204 Radial†	10.3	-1.6	-13.552 ug/L	-13.552 ppb	13:56:33
1	K 766.490 Radial†	3375.3	760.2	138.41 ug/L	138.41 ppb	13:56:13
1	Mg 279.077 IEC†	3.5	0.3	10.291 ug/L	10.291 ppb	13:56:33
1	Na 589.592 Radial†	-1042.0	298.8	85.664 ug/L	85.664 ppb	13:56:13
1	Sr 421.552†	12.0	1.9	0.0120 ug/L	0.0120 ppb	13:56:13
1	Sc 361.383	878242.6	878242.6	102.35 %		13:57:30
1	Y 371.029	742332.4	742332.4	102.02 %		13:57:30
1	Ag 328.068†	249.8	-113.0	-0.5251 ug/L	-0.5251 ppb	13:57:35
1	As 188.979†	6.4	30.2	12.903 ug/L	12.903 ppb	13:57:55
1	B 249.677†	250.5	859.8	19.301 ug/L	19.301 ppb	13:57:55
1	Ba 233.527†	-33.5	-24.2	-0.1875 ug/L	-0.1875 ppb	13:57:55
1	Be 313.107†	-4604.1	-23.7	-0.0087 ug/L	-0.0087 ppb	13:57:35
1	Cd 226.502†	-126.3	78.2	0.8624 ug/L	0.8624 ppb	13:57:55
1	Co 228.616†	-73.4	5.5	0.1130 ug/L	0.1130 ppb	13:57:55
1	Cr 267.716†	105.7	24.3	0.2685 ug/L	0.2685 ppb	13:57:55
1	Cu 324.752†	6522.3	-29.9	-0.0918 ug/L	-0.0918 ppb	13:57:35
1	Mn 257.610†	444.3	4.3	0.0030 ug/L	0.0030 ppb	13:57:55
1	Mo 202.031†	29.2	6.9	0.4816 ug/L	0.4816 ppb	13:57:55
1	Ni 231.604†	49.0	-19.2	-0.4742 ug/L	-0.4742 ppb	13:57:55
1	P 214.914†	243.3	17.4	10.501 ug/L	10.501 ppb	13:57:55
1	Pb 220.353†	-42.3	20.9	2.5313 ug/L	2.5313 ppb	13:57:55
1	S 181.975 Axial†	53.2	8.1	11.227 ug/L	11.227 ppb	13:57:55
1	Sb 206.836†	52.2	17.5	6.0162 ug/L	6.0162 ppb	13:57:55
1	Se 196.026†	-32.5	0.3	0.1206 ug/L	0.1206 ppb	13:57:55
1	Si 251.611†	615.9	141.1	4.4605 ug/L	4.4605 ppb	13:57:55
1	Sn 189.927†	20.8	18.7	3.2497 ug/L	3.2497 ppb	13:57:55
1	Ti 334.940†	-1286.4	77.3	0.1214 ug/L	0.1214 ppb	13:57:35
1	Tl 190.801†	-29.2	5.5	1.6651 ug/L	1.6651 ppb	13:57:55
1	U 409.014†	-1797.5	107.7	3.1713 ug/L	3.1713 ppb	13:57:30
1	V 292.402†	-1381.9	9.5	0.0801 ug/L	0.0801 ppb	13:57:35
1	Zn 213.857†	774.8	132.3	1.2465 ug/L	1.2465 ppb	13:57:55
1	SiO2†	573.2	101.0	6.7985 ug/L	6.7985 ppb	13:59:01
2	Sc Radial	5251.1	5251.1	103 %		13:56:38
2	Y RADIAL	5580.4	5580.4	101.4 %		13:56:38
2	Al 396.153Radial†	-16.7	-10.1	-8.0961 ug/L	-8.0961 ppb	13:56:38
2	Ca 317.933Radial†	19.3	-0.4	-0.6202 ug/L	-0.6202 ppb	13:56:58
2	Fe 238.204 Radial†	8.8	-2.9	-24.849 ug/L	-24.849 ppb	13:56:58
2	K 766.490 Radial†	3309.8	716.2	130.39 ug/L	130.39 ppb	13:56:38
2	Mg 279.077 IEC†	4.8	1.7	54.846 ug/L	54.846 ppb	13:56:58
2	Na 589.592 Radial†	-1004.2	329.6	94.482 ug/L	94.482 ppb	13:56:38
2	Sr 421.552†	2.6	-7.2	-0.0459 ug/L	-0.0459 ppb	13:56:38
2	Sc 361.383	880232.0	880232.0	102.58 %		13:58:00
2	Y 371.029	742313.3	742313.3	102.01 %		13:58:00
2	Ag 328.068†	307.0	-57.8	-0.2741 ug/L	-0.2741 ppb	13:58:05
2	As 188.979†	3.5	27.3	11.683 ug/L	11.683 ppb	13:58:25
2	B 249.677†	224.8	834.2	18.729 ug/L	18.729 ppb	13:58:25
2	Ba 233.527†	-11.7	-2.8	-0.0221 ug/L	-0.0221 ppb	13:58:25
2	Be 313.107†	-4573.0	16.8	0.0066 ug/L	0.0066 ppb	13:58:05
2	Cd 226.502†	-153.0	52.5	0.5798 ug/L	0.5798 ppb	13:58:25
2	Co 228.616†	-79.5	-0.3	-0.0051 ug/L	-0.0051 ppb	13:58:25
2	Cr 267.716†	99.7	18.2	0.2008 ug/L	0.2008 ppb	13:58:25
2	Cu 324.752†	6327.1	-234.6	-0.7026 ug/L	-0.7026 ppb	13:58:05
2	Mn 257.610†	433.7	-7.0	-0.0124 ug/L	-0.0124 ppb	13:58:25
2	Mo 202.031†	24.0	1.8	0.1234 ug/L	0.1234 ppb	13:58:25
2	Ni 231.604†	48.1	-20.2	-0.4988 ug/L	-0.4988 ppb	13:58:25

2	P 214.914†	232.7	6.5	4.1244 ug/L	4.1244 ppb	13:58:25
2	Pb 220.353†	-37.8	25.4	3.0706 ug/L	3.0706 ppb	13:58:25
2	S 181.975 Axial†	55.0	9.8	13.600 ug/L	13.600 ppb	13:58:25
2	Sb 206.836†	53.8	19.0	6.4880 ug/L	6.4880 ppb	13:58:25
2	Se 196.026†	-28.1	4.7	2.8759 ug/L	2.8759 ppb	13:58:25
2	Si 251.611†	591.1	115.5	3.6560 ug/L	3.6560 ppb	13:58:25
2	Sn 189.927†	17.4	15.3	2.6675 ug/L	2.6675 ppb	13:58:25
2	Ti 334.940†	-1298.0	68.8	0.1043 ug/L	0.1043 ppb	13:58:05
2	Tl 190.801†	-19.4	15.2	4.5912 ug/L	4.5912 ppb	13:58:25
2	U 409.014†	-1818.5	91.1	2.6848 ug/L	2.6848 ppb	13:58:00
2	V 292.402†	-1358.4	35.5	0.2527 ug/L	0.2527 ppb	13:58:05
2	Zn 213.857†	776.8	132.6	1.2514 ug/L	1.2514 ppb	13:58:25
2	SiO2†	615.2	140.7	9.4841 ug/L	9.4841 ppb	13:59:06
3	Sc Radial	5285.5	5285.5	103 %		13:57:03
3	Y RADIAL	5655.6	5655.6	102.7 %		13:57:03
3	Al 396.153Radial†	-0.4	5.8	4.6244 ug/L	4.6244 ppb	13:57:03
3	Ca 317.933Radial†	17.1	-2.7	-4.2842 ug/L	-4.2842 ppb	13:57:23
3	Fe 238.204 Radial†	11.0	-0.9	-7.4570 ug/L	-7.4570 ppb	13:57:23
3	K 766.490 Radial†	3264.7	651.5	118.61 ug/L	118.61 ppb	13:57:03
3	Mg 279.077 IEC†	0.8	-2.2	-74.102 ug/L	-74.102 ppb	13:57:23
3	Na 589.592 Radial†	-1042.1	299.2	85.770 ug/L	85.770 ppb	13:57:03
3	Sr 421.552†	-0.5	-10.3	-0.0654 ug/L	-0.0654 ppb	13:57:03
3	Sc 361.383	878888.4	878888.4	102.43 %		13:58:30
3	Y 371.029	740439.6	740439.6	101.76 %		13:58:30
3	Ag 328.068†	243.5	-119.3	-0.5482 ug/L	-0.5482 ppb	13:58:35
3	As 188.979†	4.7	28.5	12.191 ug/L	12.191 ppb	13:58:55
3	B 249.677†	233.2	842.8	18.917 ug/L	18.917 ppb	13:58:55
3	Ba 233.527†	-22.6	-13.5	-0.1039 ug/L	-0.1039 ppb	13:58:55
3	Be 313.107†	-4601.2	-17.6	-0.0063 ug/L	-0.0063 ppb	13:58:35
3	Cd 226.502†	-131.2	73.5	0.8093 ug/L	0.8093 ppb	13:58:55
3	Co 228.616†	-75.2	3.8	0.0776 ug/L	0.0776 ppb	13:58:55
3	Cr 267.716†	98.8	17.5	0.1941 ug/L	0.1941 ppb	13:58:55
3	Cu 324.752†	6531.5	-25.6	-0.0770 ug/L	-0.0770 ppb	13:58:35
3	Mn 257.610†	426.8	-13.1	-0.0121 ug/L	-0.0121 ppb	13:58:55
3	Mo 202.031†	24.2	2.0	0.1384 ug/L	0.1384 ppb	13:58:55
3	Ni 231.604†	42.7	-25.3	-0.6259 ug/L	-0.6259 ppb	13:58:55
3	P 214.914†	232.2	6.4	3.8779 ug/L	3.8779 ppb	13:58:55
3	Pb 220.353†	-43.2	20.0	2.4241 ug/L	2.4241 ppb	13:58:55
3	S 181.975 Axial†	49.6	4.5	6.3006 ug/L	6.3006 ppb	13:58:55
3	Sb 206.836†	57.0	22.2	7.5469 ug/L	7.5469 ppb	13:58:55
3	Se 196.026†	-33.7	-0.9	-0.5866 ug/L	-0.5866 ppb	13:58:55
3	Si 251.611†	595.0	120.3	3.8053 ug/L	3.8053 ppb	13:58:55
3	Sn 189.927†	4.9	3.1	0.5458 ug/L	0.5458 ppb	13:58:55
3	Ti 334.940†	-1282.1	82.4	0.1372 ug/L	0.1372 ppb	13:58:35
3	Tl 190.801†	-35.0	-0.0	-0.0140 ug/L	-0.0140 ppb	13:58:55
3	U 409.014†	-1900.6	8.3	0.2443 ug/L	0.2443 ppb	13:58:30
3	V 292.402†	-1337.5	53.9	0.3673 ug/L	0.3673 ppb	13:58:35
3	Zn 213.857†	758.0	115.4	1.0877 ug/L	1.0877 ppb	13:58:55
3	SiO2†	608.6	135.1	9.1111 ug/L	9.1111 ppb	13:59:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	879121.0	102.45 %		0.118			0.12%
Sc Radial	5273.2	103 %		0.4			0.36%
Y 371.029	741695.1	101.93 %		0.149			0.15%
Y RADIAL	5621.7	102.1 %		0.69			0.68%
Ag 328.068†	-96.7	-0.4492 ug/L		0.15202	-0.4492 ppb	0.15202	33.85%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.4	0.2802 ug/L		7.25575	0.2802 ppb	7.25575	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	28.7	12.259 ug/L		0.6130	12.259 ppb	0.6130	5.00%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	845.6	18.982 ug/L		0.2918	18.982 ppb	0.2918	1.54%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-13.5	-0.1045 ug/L		0.08270	-0.1045 ppb	0.08270	79.12%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-8.2	-0.0028 ug/L		0.00822	-0.0028 ppb	0.00822	292.64%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.2	-1.9190 ug/L		2.05161	-1.9190 ppb	2.05161	106.91%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	68.1	0.7505 ug/L	0.15017	0.7505 ppb	0.15017	20.01%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	3.0	0.0618 ug/L	0.06064	0.0618 ppb	0.06064	98.06%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	20.0	0.2211 ug/L	0.04116	0.2211 ppb	0.04116	18.61%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-96.7	-0.2905 ug/L	0.35699	-0.2905 ppb	0.35699	122.90%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-1.8	-15.286 ug/L	8.8246	-15.286 ppb	8.8246	57.73%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	709.3	129.14 ug/L	9.961	129.14 ppb	9.961	7.71%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.1	-2.9882 ug/L	65.49156	-2.9882 ppb	65.49156	>999.9%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-5.3	-0.0072 ug/L	0.00878	-0.0072 ppb	0.00878	122.67%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	3.6	0.2478 ug/L	0.20261	0.2478 ppb	0.20261	81.75%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	309.2	88.638 ug/L	5.0607	88.638 ppb	5.0607	5.71%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-21.5	-0.5330 ug/L	0.08142	-0.5330 ppb	0.08142	15.28%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	10.1	6.1677 ug/L	3.75446	6.1677 ppb	3.75446	60.87%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	22.1	2.6754 ug/L	0.34648	2.6754 ppb	0.34648	12.95%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	7.5	10.376 ug/L	3.7236	10.376 ppb	3.7236	35.89%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	19.6	6.6837 ug/L	0.78389	6.6837 ppb	0.78389	11.73%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	1.3	0.8033 ug/L	1.82941	0.8033 ppb	1.82941	227.73%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	125.6	3.9739 ug/L	0.42791	3.9739 ppb	0.42791	10.77%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	12.4	2.1543 ug/L	1.42313	2.1543 ppb	1.42313	66.06%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-5.2	-0.0331 ug/L	0.04025	-0.0331 ppb	0.04025	121.54%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	76.2	0.1210 ug/L	0.01644	0.1210 ppb	0.01644	13.59%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	6.9	2.0808 ug/L	2.33055	2.0808 ppb	2.33055	112.00%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	69.0	2.0334 ug/L	1.56845	2.0334 ppb	1.56845	77.13%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	33.0	0.2334 ug/L	0.14458	0.2334 ppb	0.14458	61.95%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	126.8	1.1952 ug/L	0.09315	1.1952 ppb	0.09315	7.79%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		125.6	8.4646 ug/L	1.45487	8.4646 ppb	1.45487	17.19%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

=====
Analysis Begun

Start Time: 1/12/2010 14:12:32

Plasma On Time: 1/11/2010 06:15:31

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\011210.sif

Batch ID:

Results Data Set: 011210

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 1/12/2010 12:24:47

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: 1/12/2010 14:12:33

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	5074.5	5074.5	99.1 %		14:14:26
1	Y RADIAL	5421.9	5421.9	98.48 %		14:14:26
1	Al 396.153Radial†	-7.4	-1.3	0.2854 ug/L	0.2854 ppb	14:14:26

1	Ca 317.933Radial†	-1.8	-21.0	-33.907 ug/L	-33.907 ppb	14:14:46
1	Fe 238.204 Radial†	43162.5	43546.1	370260 ug/L	370260 ppb	14:14:26
1	K 766.490 Radial†	2462.1	-26.9	-4.8692 ug/L	-4.8692 ppb	14:14:26
1	Mg 279.077 IEC†	13.5	10.6	-35.738 ug/L	-35.738 ppb	14:14:46
1	Na 589.592 Radial†	-1085.9	213.1	61.073 ug/L	61.073 ppb	14:14:26
1	Sr 421.552†	97.4	88.5	0.5655 ug/L	0.5655 ppb	14:14:26
1	Sc 361.383	854254.0	854254.0	99.555 %		14:15:44
1	Y 371.029	713373.9	713373.9	98.036 %		14:15:44
1	Ag 328.068†	-25544.9	-26016.2	0.8293 ug/L	0.8293 ppb	14:15:49
1	As 188.979†	-221.5	-198.5	1.9262 ug/L	1.9262 ppb	14:16:09
1	B 249.677†	2578.1	3204.8	11.788 ug/L	11.788 ppb	14:15:49
1	Ba 233.527†	-1448.6	-1446.5	0.1950 ug/L	0.1950 ppb	14:15:49
1	Be 313.107†	-4462.5	-7.8	-0.0030 ug/L	-0.0030 ppb	14:15:49
1	Cd 226.502†	3176.1	3391.9	-0.9192 ug/L	-0.9192 ppb	14:15:49
1	Co 228.616†	178.5	256.6	-0.2074 ug/L	-0.2074 ppb	14:16:09
1	Cr 267.716†	-519.1	-600.4	0.5994 ug/L	0.5994 ppb	14:15:49
1	Cu 324.752†	1222.0	-5175.0	4.1274 ug/L	4.1274 ppb	14:15:49
1	Mn 257.610†	-30129.3	-30693.7	2.8943 ug/L	2.8943 ppb	14:15:44
1	Mo 202.031†	-367.4	-390.6	1.4871 ug/L	1.4871 ppb	14:15:49
1	Ni 231.604†	157.6	91.3	2.2553 ug/L	2.2553 ppb	14:16:09
1	P 214.914†	676.4	459.1	-18.926 ug/L	-18.926 ppb	14:16:09
1	Pb 220.353†	222.3	285.5	-0.8845 ug/L	-0.8845 ppb	14:16:09
1	S 181.975 Axial†	75.1	31.6	43.983 ug/L	43.983 ppb	14:16:09
1	Sb 206.836†	16.1	-17.3	-1.6388 ug/L	-1.6388 ppb	14:16:09
1	Se 196.026†	-1580.6	-1555.6	119.76 ug/L	119.76 ppb	14:16:09
1	Si 251.611†	-557.3	-1020.4	-31.967 ug/L	-31.967 ppb	14:15:49
1	Sn 189.927†	-15.4	-17.1	3.2478 ug/L	3.2478 ppb	14:16:09
1	Ti 334.940†	-1330.4	-2.2	-0.0607 ug/L	-0.0607 ppb	14:15:49
1	Tl 190.801†	-50.1	-16.2	-5.1893 ug/L	-5.1893 ppb	14:16:09
1	U 409.014†	170.4	2035.0	17.713 ug/L	17.713 ppb	14:15:49
1	V 292.402†	7826.5	9221.2	2.1578 ug/L	2.1578 ppb	14:15:49
1	Zn 213.857†	4456.4	3851.7	0.2457 ug/L	0.2457 ppb	14:16:09
1	SiO2†	-599.1	-1060.8	-70.810 ug/L	-70.810 ppb	14:17:16
2	Sc Radial	5138.4	5138.4	100 %		14:14:52
2	Y RADIAL	5462.3	5462.3	99.22 %		14:14:52
2	Al 396.153Radial†	-24.7	-18.4	-13.356 ug/L	-13.356 ppb	14:14:52
2	Ca 317.933Radial†	4.9	-14.3	-23.082 ug/L	-23.082 ppb	14:15:12
2	Fe 238.204 Radial†	43610.8	43451.2	369460 ug/L	369460 ppb	14:14:52
2	K 766.490 Radial†	2573.8	53.6	9.7821 ug/L	9.7821 ppb	14:14:52
2	Mg 279.077 IEC†	12.8	9.7	-64.148 ug/L	-64.148 ppb	14:15:12
2	Na 589.592 Radial†	-1091.4	221.2	63.413 ug/L	63.413 ppb	14:14:52
2	Sr 421.552†	87.6	77.5	0.4951 ug/L	0.4951 ppb	14:14:52
2	Sc 361.383	846726.6	846726.6	98.678 %		14:16:14
2	Y 371.029	707416.3	707416.3	97.217 %		14:16:14
2	Ag 328.068†	-25218.0	-25913.0	1.0481 ug/L	1.0481 ppb	14:16:20
2	As 188.979†	-214.2	-193.2	4.0317 ug/L	4.0317 ppb	14:16:40
2	B 249.677†	2551.6	3200.9	11.833 ug/L	11.833 ppb	14:16:20
2	Ba 233.527†	-1597.3	-1610.1	-1.0961 ug/L	-1.0961 ppb	14:16:20
2	Be 313.107†	-4564.0	-150.5	-0.0571 ug/L	-0.0571 ppb	14:16:20
2	Cd 226.502†	3225.4	3470.3	0.0243 ug/L	0.0243 ppb	14:16:20
2	Co 228.616†	174.4	254.0	-0.2510 ug/L	-0.2510 ppb	14:16:40
2	Cr 267.716†	-558.5	-644.9	0.0925 ug/L	0.0925 ppb	14:16:20
2	Cu 324.752†	1226.5	-5159.5	4.1337 ug/L	4.1337 ppb	14:16:20
2	Mn 257.610†	-30006.5	-30838.3	2.6572 ug/L	2.6572 ppb	14:16:14
2	Mo 202.031†	-381.0	-407.8	0.2287 ug/L	0.2287 ppb	14:16:20
2	Ni 231.604†	114.0	48.5	1.1978 ug/L	1.1978 ppb	14:16:40
2	P 214.914†	655.5	444.0	-27.424 ug/L	-27.424 ppb	14:16:40
2	Pb 220.353†	214.4	279.4	-1.5520 ug/L	-1.5520 ppb	14:16:40
2	S 181.975 Axial†	73.7	30.9	42.955 ug/L	42.955 ppb	14:16:40
2	Sb 206.836†	27.7	-5.3	2.3549 ug/L	2.3549 ppb	14:16:40
2	Se 196.026†	-1563.9	-1552.8	119.15 ug/L	119.15 ppb	14:16:40
2	Si 251.611†	-562.6	-1030.8	-32.280 ug/L	-32.280 ppb	14:16:20
2	Sn 189.927†	-27.8	-29.8	1.0217 ug/L	1.0217 ppb	14:16:40
2	Ti 334.940†	-1374.2	-58.4	-0.1444 ug/L	-0.1444 ppb	14:16:20
2	Tl 190.801†	-57.8	-24.5	-7.6951 ug/L	-7.6951 ppb	14:16:40
2	U 409.014†	-13.9	1849.8	12.354 ug/L	12.354 ppb	14:16:20
2	V 292.402†	7838.6	9303.4	2.8174 ug/L	2.8174 ppb	14:16:20
2	Zn 213.857†	4486.9	3922.4	0.9945 ug/L	0.9945 ppb	14:16:40
2	SiO2†	-616.6	-1083.9	-72.332 ug/L	-72.332 ppb	14:17:21
3	Sc Radial	5205.1	5205.1	102 %		14:15:17
3	Y RADIAL	5566.3	5566.3	101.1 %		14:15:17

3	Al 396.153Radial†	-34.5	-27.7	-20.785 ug/L	-20.785 ppb	14:15:17
3	Ca 317.933Radial†	1.3	-17.9	-28.926 ug/L	-28.926 ppb	14:15:37
3	Fe 238.204 Radial†	44301.7	43574.0	370500 ug/L	370500 ppb	14:15:17
3	K 766.490 Radial†	2530.3	-22.2	-4.0066 ug/L	-4.0066 ppb	14:15:17
3	Mg 279.077 IEC†	8.9	5.7	-197.49 ug/L	-197.49 ppb	14:15:37
3	Na 589.592 Radial†	-1098.0	228.6	65.538 ug/L	65.538 ppb	14:15:17
3	Sr 421.552†	76.3	65.3	0.4170 ug/L	0.4170 ppb	14:15:17
3	Sc 361.383	851438.2	851438.2	99.227 %		14:16:45
3	Y 371.029	711617.7	711617.7	97.795 %		14:16:45
3	Ag 328.068†	-25779.9	-26337.8	-0.5610 ug/L	-0.5610 ppb	14:16:50
3	As 188.979†	-216.8	-194.5	3.7008 ug/L	3.7008 ppb	14:17:10
3	B 249.677†	2425.0	3059.0	8.4786 ug/L	8.4786 ppb	14:16:50
3	Ba 233.527†	-1514.5	-1517.7	-0.3466 ug/L	-0.3466 ppb	14:16:50
3	Be 313.107†	-4531.9	-92.5	-0.0348 ug/L	-0.0348 ppb	14:16:50
3	Cd 226.502†	3232.7	3459.5	-0.2017 ug/L	-0.2017 ppb	14:16:50
3	Co 228.616†	165.1	243.6	-0.4778 ug/L	-0.4778 ppb	14:17:10
3	Cr 267.716†	-471.7	-554.4	1.1176 ug/L	1.1176 ppb	14:16:50
3	Cu 324.752†	1362.1	-5029.7	4.5752 ug/L	4.5752 ppb	14:16:50
3	Mn 257.610†	-30208.1	-30873.3	2.7275 ug/L	2.7275 ppb	14:16:45
3	Mo 202.031†	-388.5	-413.1	-0.0632 ug/L	-0.0632 ppb	14:16:50
3	Ni 231.604†	124.4	58.3	1.4398 ug/L	1.4398 ppb	14:17:10
3	P 214.914†	675.6	460.6	-18.390 ug/L	-18.390 ppb	14:17:10
3	Pb 220.353†	240.5	304.6	1.3852 ug/L	1.3852 ppb	14:17:10
3	S 181.975 Axial†	72.0	28.7	39.984 ug/L	39.984 ppb	14:17:10
3	Sb 206.836†	21.9	-11.4	0.3161 ug/L	0.3161 ppb	14:17:10
3	Se 196.026†	-1567.7	-1547.9	125.34 ug/L	125.34 ppb	14:17:10
3	Si 251.611†	-632.9	-1098.5	-34.420 ug/L	-34.420 ppb	14:16:50
3	Sn 189.927†	-25.0	-26.8	1.5547 ug/L	1.5547 ppb	14:17:10
3	Ti 334.940†	-1285.8	38.4	0.0193 ug/L	0.0193 ppb	14:16:50
3	Tl 190.801†	-43.9	-10.2	-3.3811 ug/L	-3.3811 ppb	14:17:10
3	U 409.014†	57.6	1921.9	14.355 ug/L	14.355 ppb	14:16:50
3	V 292.402†	7971.9	9393.7	3.2556 ug/L	3.2556 ppb	14:16:50
3	Zn 213.857†	4489.8	3900.1	0.6823 ug/L	0.6823 ppb	14:17:10
3	SiO2†	-640.0	-1104.0	-73.676 ug/L	-73.676 ppb	14:17:26

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850806.3	99.153 %	%	0.4432			0.45%
Sc Radial	5139.3	100 %	%	1.3			1.27%
Y 371.029	710802.6	97.683 %	%	0.4207			0.43%
Y RADIAL	5483.5	99.60 %	%	1.353			1.36%
Ag 328.068†	-26089.0	0.4388 ug/L	ug/L	0.87277	0.4388 ppb	0.87277	198.90%
Al 396.153Radial†	-15.8	-11.285 ug/L	ug/L	10.6869	-11.285 ppb	10.6869	94.70%
As 188.979†	-195.4	3.2196 ug/L	ug/L	1.13219	3.2196 ppb	1.13219	35.17%
B 249.677†	3154.9	10.700 ug/L	ug/L	1.9236	10.700 ppb	1.9236	17.98%
Ba 233.527†	-1524.8	-0.4159 ug/L	ug/L	0.64837	-0.4159 ppb	0.64837	155.90%
Be 313.107†	-83.6	-0.0316 ug/L	ug/L	0.02720	-0.0316 ppb	0.02720	86.01%
Ca 317.933Radial†	-17.7	-28.638 ug/L	ug/L	5.4181	-28.638 ppb	5.4181	18.92%
Cd 226.502†	3440.6	-0.3655 ug/L	ug/L	0.49262	-0.3655 ppb	0.49262	134.76%
Co 228.616†	251.4	-0.3121 ug/L	ug/L	0.14514	-0.3121 ppb	0.14514	46.51%
Cr 267.716†	-599.9	0.6032 ug/L	ug/L	0.51258	0.6032 ppb	0.51258	84.98%
Cu 324.752†	-5121.4	4.2787 ug/L	ug/L	0.25673	4.2787 ppb	0.25673	6.00%
Fe 238.204 Radial†	43523.8	370070 ug/L	ug/L	547.5	370070 ppb	547.5	0.15%
K 766.490 Radial†	1.5	0.3021 ug/L	ug/L	8.22123	0.3021 ppb	8.22123	>999.9%
Mg 279.077 IEC†	8.7	-99.127 ug/L	ug/L	86.3640	-99.127 ppb	86.3640	87.13%
Mn 257.610†	-30801.8	2.7597 ug/L	ug/L	0.12178	2.7597 ppb	0.12178	4.41%
Mo 202.031†	-403.8	0.5509 ug/L	ug/L	0.82384	0.5509 ppb	0.82384	149.55%
Na 589.592 Radial†	221.0	63.341 ug/L	ug/L	2.2332	63.341 ppb	2.2332	3.53%
Ni 231.604†	66.0	1.6310 ug/L	ug/L	0.55406	1.6310 ppb	0.55406	33.97%
P 214.914†	454.6	-21.580 ug/L	ug/L	5.0680	-21.580 ppb	5.0680	23.48%
Pb 220.353†	289.8	-0.3504 ug/L	ug/L	1.53974	-0.3504 ppb	1.53974	439.41%
S 181.975 Axial†	30.4	42.307 ug/L	ug/L	2.0767	42.307 ppb	2.0767	4.91%
Sb 206.836†	-11.3	0.3441 ug/L	ug/L	1.99699	0.3441 ppb	1.99699	580.43%
Se 196.026†	-1552.1	121.42 ug/L	ug/L	3.411	121.42 ppb	3.411	2.81%
Si 251.611†	-1049.9	-32.889 ug/L	ug/L	1.3350	-32.889 ppb	1.3350	4.06%
Sn 189.927†	-24.6	1.9414 ug/L	ug/L	1.16232	1.9414 ppb	1.16232	59.87%
Sr 421.552†	77.1	0.4926 ug/L	ug/L	0.07431	0.4926 ppb	0.07431	15.09%
Ti 334.940†	-7.4	-0.0619 ug/L	ug/L	0.08186	-0.0619 ppb	0.08186	132.21%
Tl 190.801†	-17.0	-5.4218 ug/L	ug/L	2.16637	-5.4218 ppb	2.16637	39.96%

U 409.014†	1935.6	14.807 ug/L	2.7081	14.807 ppb	2.7081	18.29%
V 292.402†	9306.1	2.7436 ug/L	0.55260	2.7436 ppb	0.55260	20.14%
Zn 213.857†	3891.4	0.6408 ug/L	0.37610	0.6408 ppb	0.37610	58.69%
SiO2†	-1082.9	-72.273 ug/L	1.4337	-72.273 ppb	1.4337	1.98%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/12/2010 14:19:37

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	5165.4	5165.4	101 %		14:21:29
1	Y RADIAL	5478.9	5478.9	99.52 %		14:21:29
1	Al 396.153Radial†	6456.0	6406.7	5099.9 ug/L	5099.9 ppb	14:21:29
1	Ca 317.933Radial†	3227.6	3180.6	5134.3 ug/L	5134.3 ppb	14:21:49
1	Fe 238.204 Radial†	622.3	605.4	5162.8 ug/L	5162.8 ppb	14:21:49
1	K 766.490 Radial†	30275.6	27503.5	5002.2 ug/L	5002.2 ppb	14:21:29
1	Mg 279.077 IEC†	160.5	156.1	5184.0 ug/L	5184.0 ppb	14:21:49
1	Na 589.592 Radial†	33325.2	34347.2	9845.7 ug/L	9845.7 ppb	14:21:29
1	Sr 421.552†	78740.1	78052.7	498.29 ug/L	498.29 ppb	14:21:29
1	Sc 361.383	873197.0	873197.0	101.76 %		14:22:47
1	Y 371.029	724713.7	724713.7	99.595 %		14:22:47
1	Ag 328.068†	112194.1	109893.6	507.41 ug/L	507.41 ppb	14:22:52
1	As 188.979†	1158.8	1162.7	501.48 ug/L	501.48 ppb	14:23:12
1	B 249.677†	22232.7	22462.7	501.90 ug/L	501.90 ppb	14:22:52
1	Ba 233.527†	65881.7	64749.1	502.94 ug/L	502.94 ppb	14:22:52
1	Be 313.107†	1353056.5	1334093.6	505.20 ug/L	505.20 ppb	14:22:47
1	Cd 226.502†	46324.7	45724.0	502.88 ug/L	502.88 ppb	14:22:52
1	Co 228.616†	25275.2	24914.7	505.58 ug/L	505.58 ppb	14:22:52
1	Cr 267.716†	45862.6	44989.2	499.75 ug/L	499.75 ppb	14:22:52
1	Cu 324.752†	176966.9	167499.1	499.66 ug/L	499.66 ppb	14:22:52
1	Mn 257.610†	467219.8	458696.9	503.34 ug/L	503.34 ppb	14:22:47
1	Mo 202.031†	7236.7	7089.7	495.15 ug/L	495.15 ppb	14:23:12
1	Ni 231.604†	20743.8	20317.5	502.49 ug/L	502.49 ppb	14:22:52
1	P 214.914†	4417.3	4120.5	2356.5 ug/L	2356.5 ppb	14:23:12
1	Pb 220.353†	4087.9	4079.2	495.36 ug/L	495.36 ppb	14:23:12
1	S 181.975 Axial†	778.0	720.6	1001.9 ug/L	1001.9 ppb	14:23:12
1	Sb 206.836†	1517.6	1457.8	511.97 ug/L	511.97 ppb	14:23:12
1	Se 196.026†	773.5	792.1	515.93 ug/L	515.93 ppb	14:23:12
1	Si 251.611†	81655.9	79780.8	2519.5 ug/L	2519.5 ppb	14:22:52
1	Sn 189.927†	2903.1	2851.1	497.61 ug/L	497.61 ppb	14:23:12
1	Ti 334.940†	321063.2	316835.9	507.20 ug/L	507.20 ppb	14:22:47
1	Tl 190.801†	1634.0	1639.8	498.50 ug/L	498.50 ppb	14:23:12
1	U 409.014†	15852.9	17442.2	511.77 ug/L	511.77 ppb	14:22:52
1	V 292.402†	73503.8	73590.3	505.73 ug/L	505.73 ppb	14:22:52
1	Zn 213.857†	55427.3	53842.5	501.06 ug/L	501.06 ppb	14:22:52
1	SiO2†	81180.7	79315.4	5336.2 ug/L	5336.2 ppb	14:24:20
2	Sc Radial	5176.4	5176.4	101 %		14:21:54
2	Y RADIAL	5452.2	5452.2	99.03 %		14:21:54
2	Al 396.153Radial†	6456.1	6393.1	5088.7 ug/L	5088.7 ppb	14:21:54
2	Ca 317.933Radial†	3211.5	3157.8	5097.6 ug/L	5097.6 ppb	14:22:14
2	Fe 238.204 Radial†	618.6	600.4	5120.6 ug/L	5120.6 ppb	14:22:14
2	K 766.490 Radial†	30174.4	27339.2	4972.3 ug/L	4972.3 ppb	14:21:54
2	Mg 279.077 IEC†	159.7	155.0	5145.5 ug/L	5145.5 ppb	14:22:14
2	Na 589.592 Radial†	33142.9	34096.3	9773.7 ug/L	9773.7 ppb	14:21:54
2	Sr 421.552†	78439.6	77588.5	495.33 ug/L	495.33 ppb	14:21:54
2	Sc 361.383	867072.7	867072.7	101.05 %		14:23:18
2	Y 371.029	719981.4	719981.4	98.944 %		14:23:18
2	Ag 328.068†	111601.1	110085.4	508.28 ug/L	508.28 ppb	14:23:23
2	As 188.979†	1162.1	1174.0	506.28 ug/L	506.28 ppb	14:23:43
2	B 249.677†	22148.6	22533.8	503.50 ug/L	503.50 ppb	14:23:23
2	Ba 233.527†	65520.9	64849.4	503.72 ug/L	503.72 ppb	14:23:23
2	Be 313.107†	1344931.5	1335444.3	505.72 ug/L	505.72 ppb	14:23:18
2	Cd 226.502†	46147.6	45870.2	504.49 ug/L	504.49 ppb	14:23:23
2	Co 228.616†	25163.1	24979.1	506.91 ug/L	506.91 ppb	14:23:23
2	Cr 267.716†	45730.3	45176.6	501.83 ug/L	501.83 ppb	14:23:23
2	Cu 324.752†	175475.6	167251.6	498.92 ug/L	498.92 ppb	14:23:23
2	Mn 257.610†	465509.3	460247.0	505.03 ug/L	505.03 ppb	14:23:18
2	Mo 202.031†	7285.4	7188.1	502.02 ug/L	502.02 ppb	14:23:43
2	Ni 231.604†	20654.9	20373.4	503.87 ug/L	503.87 ppb	14:23:23

2	P 214.914†	4458.4	4191.8	2399.6 ug/L	2399.6 ppb	14:23:43
2	Pb 220.353†	4131.6	4150.9	504.04 ug/L	504.04 ppb	14:23:43
2	S 181.975 Axial†	783.6	731.6	1017.2 ug/L	1017.2 ppb	14:23:43
2	Sb 206.836†	1524.6	1475.3	518.18 ug/L	518.18 ppb	14:23:43
2	Se 196.026†	788.4	812.2	528.48 ug/L	528.48 ppb	14:23:43
2	Si 251.611†	81229.7	79925.8	2524.0 ug/L	2524.0 ppb	14:23:23
2	Sn 189.927†	2938.6	2906.4	507.24 ug/L	507.24 ppb	14:23:43
2	Ti 334.940†	319463.0	317480.8	508.23 ug/L	508.23 ppb	14:23:18
2	Tl 190.801†	1646.9	1663.9	505.81 ug/L	505.81 ppb	14:23:43
2	U 409.014†	15835.4	17534.9	514.50 ug/L	514.50 ppb	14:23:23
2	V 292.402†	73065.7	73666.9	506.36 ug/L	506.36 ppb	14:23:23
2	Zn 213.857†	55154.7	53957.5	502.13 ug/L	502.13 ppb	14:23:23
2	SiO2†	81481.7	80176.8	5394.1 ug/L	5394.1 ppb	14:24:25
3	Sc Radial	5144.3	5144.3	100 %		14:22:19
3	Y RADIAL	5481.7	5481.7	99.57 %		14:22:19
3	Al 396.153Radial†	6414.1	6391.2	5087.1 ug/L	5087.1 ppb	14:22:19
3	Ca 317.933Radial†	3193.9	3160.2	5101.4 ug/L	5101.4 ppb	14:22:39
3	Fe 238.204 Radial†	617.3	602.9	5142.1 ug/L	5142.1 ppb	14:22:39
3	K 766.490 Radial†	30188.8	27540.3	5009.0 ug/L	5009.0 ppb	14:22:19
3	Mg 279.077 IEC†	161.4	157.6	5234.9 ug/L	5234.9 ppb	14:22:39
3	Na 589.592 Radial†	32996.6	34155.8	9790.8 ug/L	9790.8 ppb	14:22:19
3	Sr 421.552†	78218.4	77853.9	497.02 ug/L	497.02 ppb	14:22:19
3	Sc 361.383	861996.1	861996.1	100.46 %		14:23:49
3	Y 371.029	715819.1	715819.1	98.372 %		14:23:49
3	Ag 328.068†	113080.8	112208.9	518.06 ug/L	518.06 ppb	14:23:54
3	As 188.979†	1160.3	1179.0	508.41 ug/L	508.41 ppb	14:24:14
3	B 249.677†	22511.2	23023.8	514.47 ug/L	514.47 ppb	14:23:54
3	Ba 233.527†	66297.4	66004.1	512.69 ug/L	512.69 ppb	14:23:54
3	Be 313.107†	1335323.4	1333718.5	505.06 ug/L	505.06 ppb	14:23:49
3	Cd 226.502†	46770.0	46758.7	514.27 ug/L	514.27 ppb	14:23:54
3	Co 228.616†	25469.5	25430.8	516.08 ug/L	516.08 ppb	14:23:54
3	Cr 267.716†	46078.3	45789.6	508.64 ug/L	508.64 ppb	14:23:54
3	Cu 324.752†	177871.1	170658.9	509.08 ug/L	509.08 ppb	14:23:54
3	Mn 257.610†	462603.6	460067.6	504.83 ug/L	504.83 ppb	14:23:49
3	Mo 202.031†	7271.2	7216.4	503.99 ug/L	503.99 ppb	14:24:14
3	Ni 231.604†	20978.9	20816.4	514.83 ug/L	514.83 ppb	14:23:54
3	P 214.914†	4432.9	4192.4	2397.5 ug/L	2397.5 ppb	14:24:14
3	Pb 220.353†	4121.4	4164.9	505.73 ug/L	505.73 ppb	14:24:14
3	S 181.975 Axial†	778.2	730.8	1016.1 ug/L	1016.1 ppb	14:24:14
3	Sb 206.836†	1531.7	1491.3	523.67 ug/L	523.67 ppb	14:24:14
3	Se 196.026†	776.2	804.7	523.81 ug/L	523.81 ppb	14:24:14
3	Si 251.611†	82138.0	81303.4	2567.6 ug/L	2567.6 ppb	14:23:54
3	Sn 189.927†	2916.9	2901.9	506.46 ug/L	506.46 ppb	14:24:14
3	Ti 334.940†	317265.8	317155.5	507.70 ug/L	507.70 ppb	14:23:49
3	Tl 190.801†	1629.8	1656.5	503.50 ug/L	503.50 ppb	14:24:14
3	U 409.014†	15980.1	17771.2	521.44 ug/L	521.44 ppb	14:23:54
3	V 292.402†	74033.3	75056.0	515.82 ug/L	515.82 ppb	14:23:54
3	Zn 213.857†	55830.3	54951.5	511.38 ug/L	511.38 ppb	14:23:54
3	SiO2†	82582.4	81747.4	5500.0 ug/L	5500.0 ppb	14:24:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867421.9	101.09 %		0.654			0.65%
Sc Radial	5162.0	101 %		0.3			0.32%
Y 371.029	720171.4	98.970 %		0.6116			0.62%
Y RADIAL	5470.9	99.37 %		0.296			0.30%
Ag 328.068†	110729.3	511.25 ug/L		5.914	511.25 ppb	5.914	1.16%
QC value within limits for Ag 328.068 Recovery = 102.25%							
Al 396.153Radial†	6397.0	5091.9 ug/L		6.99	5091.9 ppb	6.99	0.14%
QC value within limits for Al 396.153Radial Recovery = 101.84%							
As 188.979†	1171.9	505.39 ug/L		3.553	505.39 ppb	3.553	0.70%
QC value within limits for As 188.979 Recovery = 101.08%							
B 249.677†	22673.4	506.62 ug/L		6.842	506.62 ppb	6.842	1.35%
QC value within limits for B 249.677 Recovery = 101.32%							
Ba 233.527†	65200.8	506.45 ug/L		5.416	506.45 ppb	5.416	1.07%
QC value within limits for Ba 233.527 Recovery = 101.29%							
Be 313.107†	1334418.8	505.33 ug/L		0.344	505.33 ppb	0.344	0.07%
QC value within limits for Be 313.107 Recovery = 101.07%							
Ca 317.933Radial†	3166.2	5111.1 ug/L		20.17	5111.1 ppb	20.17	0.39%

QC value within limits for Ca 317.933 Radial Recovery = 102.22%							
Cd 226.502†	46117.6	507.21 ug/L	6.166	507.21 ppb	6.166	1.22%	
QC value within limits for Cd 226.502 Recovery = 101.44%							
Co 228.616†	25108.2	509.52 ug/L	5.716	509.52 ppb	5.716	1.12%	
QC value within limits for Co 228.616 Recovery = 101.90%							
Cr 267.716†	45318.5	503.41 ug/L	4.650	503.41 ppb	4.650	0.92%	
QC value within limits for Cr 267.716 Recovery = 100.68%							
Cu 324.752†	168469.9	502.55 ug/L	5.665	502.55 ppb	5.665	1.13%	
QC value within limits for Cu 324.752 Recovery = 100.51%							
Fe 238.204 Radial†	602.9	5141.8 ug/L	21.12	5141.8 ppb	21.12	0.41%	
QC value within limits for Fe 238.204 Radial Recovery = 102.84%							
K 766.490 Radial†	27461.0	4994.5 ug/L	19.50	4994.5 ppb	19.50	0.39%	
QC value within limits for K 766.490 Radial Recovery = 99.89%							
Mg 279.077 IEC†	156.2	5188.1 ug/L	44.84	5188.1 ppb	44.84	0.86%	
QC value within limits for Mg 279.077 IEC Recovery = 103.76%							
Mn 257.610†	459670.5	504.40 ug/L	0.928	504.40 ppb	0.928	0.18%	
QC value within limits for Mn 257.610 Recovery = 100.88%							
Mo 202.031†	7164.8	500.39 ug/L	4.640	500.39 ppb	4.640	0.93%	
QC value within limits for Mo 202.031 Recovery = 100.08%							
Na 589.592 Radial†	34199.8	9803.4 ug/L	37.58	9803.4 ppb	37.58	0.38%	
QC value within limits for Na 589.592 Radial Recovery = 98.03%							
Ni 231.604†	20502.4	507.06 ug/L	6.761	507.06 ppb	6.761	1.33%	
QC value within limits for Ni 231.604 Recovery = 101.41%							
P 214.914†	4168.2	2384.5 ug/L	24.31	2384.5 ppb	24.31	1.02%	
QC value within limits for P 214.914 Recovery = 95.38%							
Pb 220.353†	4131.7	501.71 ug/L	5.568	501.71 ppb	5.568	1.11%	
QC value within limits for Pb 220.353 Recovery = 100.34%							
S 181.975 Axial†	727.7	1011.7 ug/L	8.55	1011.7 ppb	8.55	0.84%	
QC value within limits for S 181.975 Axial Recovery = 101.17%							
Sb 206.836†	1474.8	517.94 ug/L	5.850	517.94 ppb	5.850	1.13%	
QC value within limits for Sb 206.836 Recovery = 103.59%							
Se 196.026†	803.0	522.74 ug/L	6.344	522.74 ppb	6.344	1.21%	
QC value within limits for Se 196.026 Recovery = 104.55%							
Si 251.611†	80336.7	2537.0 ug/L	26.56	2537.0 ppb	26.56	1.05%	
QC value within limits for Si 251.611 Recovery = 101.48%							
Sn 189.927†	2886.5	503.77 ug/L	5.345	503.77 ppb	5.345	1.06%	
QC value within limits for Sn 189.927 Recovery = 100.75%							
Sr 421.552†	77831.7	496.88 ug/L	1.487	496.88 ppb	1.487	0.30%	
QC value within limits for Sr 421.552 Recovery = 99.38%							
Ti 334.940†	317157.4	507.71 ug/L	0.515	507.71 ppb	0.515	0.10%	
QC value within limits for Ti 334.940 Recovery = 101.54%							
Tl 190.801†	1653.4	502.60 ug/L	3.736	502.60 ppb	3.736	0.74%	
QC value within limits for Tl 190.801 Recovery = 100.52%							
U 409.014†	17582.8	515.91 ug/L	4.985	515.91 ppb	4.985	0.97%	
QC value within limits for U 409.014 Recovery = 103.18%							
V 292.402†	74104.4	509.30 ug/L	5.650	509.30 ppb	5.650	1.11%	
QC value within limits for V 292.402 Recovery = 101.86%							
Zn 213.857†	54250.5	504.85 ug/L	5.674	504.85 ppb	5.674	1.12%	
QC value within limits for Zn 213.857 Recovery = 100.97%							
SiO2†	80413.2	5410.1 ug/L	83.06	5410.1 ppb	83.06	1.54%	
QC value within limits for SiO2 Recovery = 101.17%							
All analyte(s) passed QC.							

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/12/2010 14:26:39

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	5299.8	5299.8	103 %		14:28:32
1	Y RADIAL	5679.7	5679.7	103.2 %		14:28:32
1	Al 396.153Radial†	11.9	17.6	14.098 ug/L	14.098 ppb	14:28:32
1	Ca 317.933Radial†	21.5	1.6	2.5893 ug/L	2.5893 ppb	14:28:52
1	Fe 238.204 Radial†	10.3	-1.6	-13.893 ug/L	-13.893 ppb	14:28:52
1	K 766.490 Radial†	2753.6	149.1	27.129 ug/L	27.129 ppb	14:28:32
1	Mg 279.077 IEC†	2.9	-0.3	-8.9269 ug/L	-8.9269 ppb	14:28:52
1	Na 589.592 Radial†	-1156.5	191.4	54.864 ug/L	54.864 ppb	14:28:32
1	Sr 421.552†	-7.5	-17.0	-0.1085 ug/L	-0.1085 ppb	14:28:32
1	Sc 361.383	888071.5	888071.5	103.50 %		14:29:49
1	Y 371.029	748407.4	748407.4	102.85 %		14:29:49
1	Ag 328.068†	283.3	-83.3	-0.3822 ug/L	-0.3822 ppb	14:29:54
1	As 188.979†	-13.7	10.7	4.5805 ug/L	4.5805 ppb	14:30:14
1	B 249.677†	-271.8	352.5	7.9130 ug/L	7.9130 ppb	14:30:14
1	Ba 233.527†	-23.5	-14.2	-0.1079 ug/L	-0.1079 ppb	14:30:14
1	Be 313.107†	-4601.7	28.4	0.0111 ug/L	0.0111 ppb	14:29:54
1	Cd 226.502†	-175.9	31.7	0.3497 ug/L	0.3497 ppb	14:30:14
1	Co 228.616†	-65.3	14.2	0.2878 ug/L	0.2878 ppb	14:30:14
1	Cr 267.716†	87.2	5.3	0.0598 ug/L	0.0598 ppb	14:30:14
1	Cu 324.752†	6455.3	-165.2	-0.4938 ug/L	-0.4938 ppb	14:29:54
1	Mn 257.610†	426.6	-17.6	-0.0203 ug/L	-0.0203 ppb	14:30:14
1	Mo 202.031†	23.0	0.6	0.0397 ug/L	0.0397 ppb	14:30:14
1	Ni 231.604†	63.0	-6.1	-0.1515 ug/L	-0.1515 ppb	14:30:14
1	P 214.914†	242.3	13.8	8.4286 ug/L	8.4286 ppb	14:30:14
1	Pb 220.353†	-48.9	15.0	1.8164 ug/L	1.8164 ppb	14:30:14
1	S 181.975 Axial†	40.9	-4.3	-6.0330 ug/L	-6.0330 ppb	14:30:14
1	Sb 206.836†	54.2	19.0	6.4705 ug/L	6.4705 ppb	14:30:14
1	Se 196.026†	-25.2	7.7	4.8146 ug/L	4.8146 ppb	14:30:14
1	Si 251.611†	496.7	19.2	0.6084 ug/L	0.6084 ppb	14:30:14
1	Sn 189.927†	13.9	11.8	2.0503 ug/L	2.0503 ppb	14:30:14
1	Ti 334.940†	-1261.8	115.0	0.1850 ug/L	0.1850 ppb	14:29:54
1	Tl 190.801†	-37.6	-2.3	-0.6916 ug/L	-0.6916 ppb	14:30:14
1	U 409.014†	-1918.5	10.2	0.3024 ug/L	0.3024 ppb	14:29:49
1	V 292.402†	-1248.6	153.3	1.0425 ug/L	1.0425 ppb	14:29:54
1	Zn 213.857†	659.1	12.2	0.1171 ug/L	0.1171 ppb	14:30:14
1	SiO2†	516.6	40.2	2.7077 ug/L	2.7077 ppb	14:31:20
2	Sc Radial	4945.9	4945.9	96.6 %		14:28:57
2	Y RADIAL	5290.9	5290.9	96.10 %		14:28:57
2	Al 396.153Radial†	-35.8	-30.8	-24.671 ug/L	-24.671 ppb	14:28:57
2	Ca 317.933Radial†	15.9	-2.7	-4.3682 ug/L	-4.3682 ppb	14:29:17
2	Fe 238.204 Radial†	11.3	0.2	1.7015 ug/L	1.7015 ppb	14:29:17
2	K 766.490 Radial†	2731.1	316.2	57.575 ug/L	57.575 ppb	14:28:57
2	Mg 279.077 IEC†	-1.3	-4.4	-145.00 ug/L	-145.00 ppb	14:29:17
2	Na 589.592 Radial†	-1145.4	123.0	35.258 ug/L	35.258 ppb	14:28:57
2	Sr 421.552†	9.2	-0.2	-0.0011 ug/L	-0.0011 ppb	14:28:57
2	Sc 361.383	873629.9	873629.9	101.81 %		14:30:19
2	Y 371.029	737481.5	737481.5	101.35 %		14:30:19
2	Ag 328.068†	309.4	-53.2	-0.2409 ug/L	-0.2409 ppb	14:30:24
2	As 188.979†	-17.3	7.0	2.9863 ug/L	2.9863 ppb	14:30:44
2	B 249.677†	-280.2	339.9	7.6283 ug/L	7.6283 ppb	14:30:44
2	Ba 233.527†	-6.4	2.3	0.0197 ug/L	0.0197 ppb	14:30:44
2	Be 313.107†	-4742.9	-183.8	-0.0691 ug/L	-0.0691 ppb	14:30:24
2	Cd 226.502†	-165.9	38.7	0.4254 ug/L	0.4254 ppb	14:30:44
2	Co 228.616†	-67.1	11.4	0.2303 ug/L	0.2303 ppb	14:30:44
2	Cr 267.716†	101.9	21.1	0.2345 ug/L	0.2345 ppb	14:30:44
2	Cu 324.752†	6518.0	-0.5	-0.0021 ug/L	-0.0021 ppb	14:30:24
2	Mn 257.610†	382.2	-54.5	-0.0536 ug/L	-0.0536 ppb	14:30:44
2	Mo 202.031†	22.3	0.3	0.0219 ug/L	0.0219 ppb	14:30:44
2	Ni 231.604†	46.0	-21.9	-0.5412 ug/L	-0.5412 ppb	14:30:44

2	P 214.914†	233.7	9.2	5.5331 ug/L	5.5331 ppb	14:30:44
2	Pb 220.353†	-52.7	10.4	1.2581 ug/L	1.2581 ppb	14:30:44
2	S 181.975 Axial†	53.4	8.6	11.966 ug/L	11.966 ppb	14:30:44
2	Sb 206.836†	50.5	16.2	5.5171 ug/L	5.5171 ppb	14:30:44
2	Se 196.026†	-37.1	-4.4	-2.7470 ug/L	-2.7470 ppb	14:30:44
2	Si 251.611†	494.9	25.4	0.8047 ug/L	0.8047 ppb	14:30:44
2	Sn 189.927†	12.7	10.8	1.8755 ug/L	1.8755 ppb	14:30:44
2	Ti 334.940†	-1260.3	96.3	0.1648 ug/L	0.1648 ppb	14:30:24
2	Tl 190.801†	-42.0	-7.2	-2.1661 ug/L	-2.1661 ppb	14:30:44
2	U 409.014†	-1848.9	47.9	1.4087 ug/L	1.4087 ppb	14:30:19
2	V 292.402†	-1262.5	119.7	0.8110 ug/L	0.8110 ppb	14:30:24
2	Zn 213.857†	658.4	22.0	0.2100 ug/L	0.2100 ppb	14:30:44
2	SiO2†	528.1	59.6	4.0211 ug/L	4.0211 ppb	14:31:25
3	Sc Radial	5301.5	5301.5	104 %		14:29:22
3	Y RADIAL	5668.5	5668.5	103.0 %		14:29:22
3	Al 396.153Radial†	4.5	10.5	8.4290 ug/L	8.4290 ppb	14:29:22
3	Ca 317.933Radial†	18.3	-1.5	-2.4806 ug/L	-2.4806 ppb	14:29:42
3	Fe 238.204 Radial†	8.9	-3.0	-25.270 ug/L	-25.270 ppb	14:29:42
3	K 766.490 Radial†	2809.8	202.6	36.868 ug/L	36.868 ppb	14:29:22
3	Mg 279.077 IEC†	2.2	-0.9	-31.388 ug/L	-31.388 ppb	14:29:42
3	Na 589.592 Radial†	-1149.7	198.3	56.846 ug/L	56.846 ppb	14:29:22
3	Sr 421.552†	3.4	-6.5	-0.0414 ug/L	-0.0414 ppb	14:29:22
3	Sc 361.383	861442.9	861442.9	100.39 %		14:30:49
3	Y 371.029	727136.0	727136.0	99.927 %		14:30:49
3	Ag 328.068†	239.3	-118.7	-0.5519 ug/L	-0.5519 ppb	14:30:54
3	As 188.979†	-23.2	0.8	0.3533 ug/L	0.3533 ppb	14:31:14
3	B 249.677†	-300.6	315.7	7.0900 ug/L	7.0900 ppb	14:31:14
3	Ba 233.527†	-16.0	-7.3	-0.0565 ug/L	-0.0565 ppb	14:31:14
3	Be 313.107†	-4683.0	-190.0	-0.0716 ug/L	-0.0716 ppb	14:30:54
3	Cd 226.502†	-171.9	30.4	0.3374 ug/L	0.3374 ppb	14:31:14
3	Co 228.616†	-79.1	-1.5	-0.0317 ug/L	-0.0317 ppb	14:31:14
3	Cr 267.716†	75.5	-3.8	-0.0424 ug/L	-0.0424 ppb	14:31:14
3	Cu 324.752†	6394.5	-32.9	-0.1005 ug/L	-0.1005 ppb	14:30:54
3	Mn 257.610†	399.7	-31.6	-0.0359 ug/L	-0.0359 ppb	14:31:14
3	Mo 202.031†	15.0	-6.7	-0.4685 ug/L	-0.4685 ppb	14:31:14
3	Ni 231.604†	42.2	-25.0	-0.6176 ug/L	-0.6176 ppb	14:31:14
3	P 214.914†	224.6	3.5	2.1308 ug/L	2.1308 ppb	14:31:14
3	Pb 220.353†	-49.6	12.8	1.5557 ug/L	1.5557 ppb	14:31:14
3	S 181.975 Axial†	53.6	9.5	13.225 ug/L	13.225 ppb	14:31:14
3	Sb 206.836†	43.1	9.5	3.2170 ug/L	3.2170 ppb	14:31:14
3	Se 196.026†	-35.2	-3.0	-1.9765 ug/L	-1.9765 ppb	14:31:14
3	Si 251.611†	509.2	46.6	1.4796 ug/L	1.4796 ppb	14:31:14
3	Sn 189.927†	7.1	5.4	0.9433 ug/L	0.9433 ppb	14:31:14
3	Ti 334.940†	-1276.6	62.6	0.1017 ug/L	0.1017 ppb	14:30:54
3	Tl 190.801†	-39.9	-5.7	-1.7167 ug/L	-1.7167 ppb	14:31:14
3	U 409.014†	-1812.7	58.2	1.7173 ug/L	1.7173 ppb	14:30:49
3	V 292.402†	-1303.5	61.4	0.4158 ug/L	0.4158 ppb	14:30:54
3	Zn 213.857†	664.8	37.6	0.3592 ug/L	0.3592 ppb	14:31:14
3	SiO2†	531.3	70.2	4.7488 ug/L	4.7488 ppb	14:31:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	874381.4	101.90 %	1.554			1.52%
Sc Radial	5182.4	101 %	4.0			3.95%
Y 371.029	737674.9	101.38 %	1.462			1.44%
Y RADIAL	5546.4	100.7 %	4.02			3.99%
Ag 328.068†	-85.1	-0.3917 ug/L	0.15572	-0.3917 ppb	0.15572	39.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.9	-0.7148 ug/L	20.93968	-0.7148 ppb	20.93968	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.2	2.6400 ug/L	2.13479	2.6400 ppb	2.13479	80.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	336.0	7.5437 ug/L	0.41796	7.5437 ppb	0.41796	5.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-6.4	-0.0482 ug/L	0.06422	-0.0482 ppb	0.06422	133.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-115.1	-0.0432 ug/L	0.04705	-0.0432 ppb	0.04705	108.99%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.9	-1.4198 ug/L	3.59799	-1.4198 ppb	3.59799	253.41%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	33.6	0.3708 ug/L	0.04764	0.3708 ppb	0.04764	12.85%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	8.0	0.1621 ug/L	0.17032	0.1621 ppb	0.17032	105.06%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	7.5	0.0840 ug/L	0.14005	0.0840 ppb	0.14005	166.78%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-66.2	-0.1988 ug/L	0.26015	-0.1988 ppb	0.26015	130.86%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-1.5	-12.487 ug/L	13.5407	-12.487 ppb	13.5407	108.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	222.6	40.524 ug/L	15.5489	40.524 ppb	15.5489	38.37%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-1.9	-61.771 ug/L	72.9468	-61.771 ppb	72.9468	118.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-34.6	-0.0366 ug/L	0.01667	-0.0366 ppb	0.01667	45.54%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-1.9	-0.1356 ug/L	0.28845	-0.1356 ppb	0.28845	212.66%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	170.9	48.989 ug/L	11.9330	48.989 ppb	11.9330	24.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-17.6	-0.4368 ug/L	0.24997	-0.4368 ppb	0.24997	57.23%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	8.8	5.3642 ug/L	3.15228	5.3642 ppb	3.15228	58.77%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	12.7	1.5434 ug/L	0.27931	1.5434 ppb	0.27931	18.10%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	4.6	6.3861 ug/L	10.77363	6.3861 ppb	10.77363	168.71%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	14.9	5.0682 ug/L	1.67253	5.0682 ppb	1.67253	33.00%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.1	0.0303 ug/L	4.16112	0.0303 ppb	4.16112	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	30.4	0.9642 ug/L	0.45699	0.9642 ppb	0.45699	47.40%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	9.3	1.6230 ug/L	0.59509	1.6230 ppb	0.59509	36.67%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-7.9	-0.0503 ug/L	0.05425	-0.0503 ppb	0.05425	107.78%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	91.3	0.1505 ug/L	0.04345	0.1505 ppb	0.04345	28.87%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-5.0	-1.5248 ug/L	0.75574	-1.5248 ppb	0.75574	49.56%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	38.8	1.1428 ug/L	0.74398	1.1428 ppb	0.74398	65.10%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	111.5	0.7564 ug/L	0.31689	0.7564 ppb	0.31689	41.89%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	23.9	0.2288 ug/L	0.12214	0.2288 ppb	0.12214	53.40%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		56.7	3.8258 ug/L	1.03448	3.8258 ppb	1.03448	27.04%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/12/2010 15:14:38

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	5193.4	5193.4	101 %		15:16:30
1	Y RADIAL	5506.6	5506.6	100.0 %		15:16:30
1	Al 396.153Radial†	6511.4	6426.7	5115.7 ug/L	5115.7 ppb	15:16:30
1	Ca 317.933Radial†	3214.2	3150.1	5085.1 ug/L	5085.1 ppb	15:16:50
1	Fe 238.204 Radial†	605.9	585.9	4997.2 ug/L	4997.2 ppb	15:16:50
1	K 766.490 Radial†	30155.5	27223.3	4951.4 ug/L	4951.4 ppb	15:16:30
1	Mg 279.077 IEC†	160.0	154.7	5137.8 ug/L	5137.8 ppb	15:16:50
1	Na 589.592 Radial†	31762.7	32628.4	9353.0 ug/L	9353.0 ppb	15:16:30
1	Sr 421.552†	77289.6	76201.5	486.47 ug/L	486.47 ppb	15:16:30
1	Sc 361.383	877787.4	877787.4	102.30 %		15:17:48
1	Y 371.029	728223.0	728223.0	100.08 %		15:17:48
1	Ag 328.068†	111870.4	109000.7	503.25 ug/L	503.25 ppb	15:17:53
1	As 188.979†	1179.5	1177.0	507.38 ug/L	507.38 ppb	15:18:13
1	B 249.677†	21861.0	21985.1	491.22 ug/L	491.22 ppb	15:17:53
1	Ba 233.527†	65659.7	64193.5	498.63 ug/L	498.63 ppb	15:17:53
1	Be 313.107†	1364615.8	1338440.0	506.81 ug/L	506.81 ppb	15:17:48
1	Cd 226.502†	46341.1	45501.8	500.45 ug/L	500.45 ppb	15:17:53
1	Co 228.616†	25289.1	24798.3	503.27 ug/L	503.27 ppb	15:17:53
1	Cr 267.716†	45819.2	44711.1	496.66 ug/L	496.66 ppb	15:17:53
1	Cu 324.752†	175354.6	165013.5	492.24 ug/L	492.24 ppb	15:17:53
1	Mn 257.610†	470655.3	459654.2	504.37 ug/L	504.37 ppb	15:17:48
1	Mo 202.031†	7329.4	7143.2	498.87 ug/L	498.87 ppb	15:18:13
1	Ni 231.604†	20712.3	20180.0	499.09 ug/L	499.09 ppb	15:17:53
1	P 214.914†	4470.6	4149.9	2376.1 ug/L	2376.1 ppb	15:18:13
1	Pb 220.353†	4133.2	4102.6	498.22 ug/L	498.22 ppb	15:18:13
1	S 181.975 Axial†	785.5	724.0	1006.6 ug/L	1006.6 ppb	15:18:13
1	Sb 206.836†	1532.7	1464.9	514.51 ug/L	514.51 ppb	15:18:13
1	Se 196.026†	776.9	791.4	515.01 ug/L	515.01 ppb	15:18:13
1	Si 251.611†	81234.7	78949.5	2493.1 ug/L	2493.1 ppb	15:17:53
1	Sn 189.927†	2930.4	2862.9	499.66 ug/L	499.66 ppb	15:18:13
1	Ti 334.940†	311732.9	306065.2	489.96 ug/L	489.96 ppb	15:17:53
1	Tl 190.801†	1650.6	1647.6	500.75 ug/L	500.75 ppb	15:18:13
1	U 409.014†	15768.5	17278.2	506.97 ug/L	506.97 ppb	15:17:53
1	V 292.402†	73366.6	73078.5	502.35 ug/L	502.35 ppb	15:17:53
1	Zn 213.857†	55345.3	53477.5	497.68 ug/L	497.68 ppb	15:17:53
1	SiO2†	82654.2	80338.7	5405.2 ug/L	5405.2 ppb	15:19:20
2	Sc Radial	5225.6	5225.6	102 %		15:16:55
2	Y RADIAL	5583.3	5583.3	101.4 %		15:16:55
2	Al 396.153Radial†	6554.1	6428.9	5117.3 ug/L	5117.3 ppb	15:16:55
2	Ca 317.933Radial†	3217.1	3133.4	5058.2 ug/L	5058.2 ppb	15:17:16
2	Fe 238.204 Radial†	603.0	579.3	4941.1 ug/L	4941.1 ppb	15:17:16
2	K 766.490 Radial†	30410.5	27289.5	4963.5 ug/L	4963.5 ppb	15:16:55
2	Mg 279.077 IEC†	157.2	151.0	5015.2 ug/L	5015.2 ppb	15:17:16
2	Na 589.592 Radial†	31839.1	32509.9	9319.0 ug/L	9319.0 ppb	15:16:55
2	Sr 421.552†	77672.3	76106.1	485.86 ug/L	485.86 ppb	15:16:55
2	Sc 361.383	866360.1	866360.1	100.97 %		15:18:19
2	Y 371.029	719535.7	719535.7	98.883 %		15:18:19
2	Ag 328.068†	112791.3	111355.1	514.07 ug/L	514.07 ppb	15:18:24
2	As 188.979†	1175.8	1188.5	512.38 ug/L	512.38 ppb	15:18:44
2	B 249.677†	22120.8	22524.2	503.30 ug/L	503.30 ppb	15:18:24
2	Ba 233.527†	65959.9	65337.5	507.51 ug/L	507.51 ppb	15:18:24
2	Be 313.107†	1346864.3	1338453.4	506.84 ug/L	506.84 ppb	15:18:19
2	Cd 226.502†	46341.8	46100.0	507.04 ug/L	507.04 ppb	15:18:24
2	Co 228.616†	25331.9	25166.8	510.73 ug/L	510.73 ppb	15:18:24
2	Cr 267.716†	45971.5	45452.7	504.90 ug/L	504.90 ppb	15:18:24
2	Cu 324.752†	177492.9	169392.4	505.29 ug/L	505.29 ppb	15:18:24
2	Mn 257.610†	463891.5	459023.5	503.68 ug/L	503.68 ppb	15:18:19
2	Mo 202.031†	7285.5	7194.2	502.43 ug/L	502.43 ppb	15:18:44
2	Ni 231.604†	20835.5	20569.1	508.71 ug/L	508.71 ppb	15:18:24

2	P 214.914†	4423.0	4160.4	2379.4 ug/L	2379.4 ppb	15:18:44
2	Pb 220.353†	4144.4	4167.0	506.02 ug/L	506.02 ppb	15:18:44
2	S 181.975 Axial†	793.0	741.5	1031.0 ug/L	1031.0 ppb	15:18:44
2	Sb 206.836†	1526.8	1478.7	519.34 ug/L	519.34 ppb	15:18:44
2	Se 196.026†	781.1	805.7	523.82 ug/L	523.82 ppb	15:18:44
2	Si 251.611†	81849.7	80606.0	2545.5 ug/L	2545.5 ppb	15:18:24
2	Sn 189.927†	2919.8	2890.2	504.40 ug/L	504.40 ppb	15:18:44
2	Ti 334.940†	314573.8	312898.4	500.90 ug/L	500.90 ppb	15:18:24
2	Tl 190.801†	1636.3	1654.7	502.93 ug/L	502.93 ppb	15:18:44
2	U 409.014†	16018.0	17728.6	520.22 ug/L	520.22 ppb	15:18:24
2	V 292.402†	73775.3	74429.2	511.58 ug/L	511.58 ppb	15:18:24
2	Zn 213.857†	55513.5	54357.8	505.87 ug/L	505.87 ppb	15:18:24
2	SiO2†	80893.1	79660.1	5359.3 ug/L	5359.3 ppb	15:19:26
3	Sc Radial	5118.3	5118.3	99.9 %		15:17:21
3	Y RADIAL	5448.8	5448.8	98.97 %		15:17:21
3	Al 396.153Radial†	6423.9	6433.4	5120.9 ug/L	5120.9 ppb	15:17:21
3	Ca 317.933Radial†	3198.7	3181.2	5135.3 ug/L	5135.3 ppb	15:17:41
3	Fe 238.204 Radial†	600.3	589.1	5024.0 ug/L	5024.0 ppb	15:17:41
3	K 766.490 Radial†	29894.3	27398.3	4983.3 ug/L	4983.3 ppb	15:17:21
3	Mg 279.077 IEC†	155.8	152.9	5076.2 ug/L	5076.2 ppb	15:17:41
3	Na 589.592 Radial†	31015.0	32340.0	9270.3 ug/L	9270.3 ppb	15:17:21
3	Sr 421.552†	76128.5	76158.3	486.20 ug/L	486.20 ppb	15:17:21
3	Sc 361.383	864224.7	864224.7	100.72 %		15:18:50
3	Y 371.029	719577.7	719577.7	98.889 %		15:18:50
3	Ag 328.068†	112050.0	110895.2	511.98 ug/L	511.98 ppb	15:18:55
3	As 188.979†	1161.9	1177.6	507.72 ug/L	507.72 ppb	15:19:15
3	B 249.677†	21944.1	22403.0	500.58 ug/L	500.58 ppb	15:18:55
3	Ba 233.527†	65436.9	64979.6	504.74 ug/L	504.74 ppb	15:18:55
3	Be 313.107†	1345836.3	1340728.7	507.69 ug/L	507.69 ppb	15:18:50
3	Cd 226.502†	46114.4	45987.7	505.79 ug/L	505.79 ppb	15:18:55
3	Co 228.616†	25109.0	25007.4	507.51 ug/L	507.51 ppb	15:18:55
3	Cr 267.716†	45792.0	45387.0	504.17 ug/L	504.17 ppb	15:18:55
3	Cu 324.752†	176227.0	168569.9	502.85 ug/L	502.85 ppb	15:18:55
3	Mn 257.610†	461897.1	458178.6	502.76 ug/L	502.76 ppb	15:18:50
3	Mo 202.031†	7278.1	7204.6	503.16 ug/L	503.16 ppb	15:19:15
3	Ni 231.604†	20690.0	20475.6	506.40 ug/L	506.40 ppb	15:18:55
3	P 214.914†	4418.4	4166.6	2383.6 ug/L	2383.6 ppb	15:19:15
3	Pb 220.353†	4126.1	4158.9	505.03 ug/L	505.03 ppb	15:19:15
3	S 181.975 Axial†	769.2	719.8	1000.8 ug/L	1000.8 ppb	15:19:15
3	Sb 206.836†	1521.6	1477.3	518.87 ug/L	518.87 ppb	15:19:15
3	Se 196.026†	786.8	813.2	528.81 ug/L	528.81 ppb	15:19:15
3	Si 251.611†	81077.3	80039.4	2527.6 ug/L	2527.6 ppb	15:18:55
3	Sn 189.927†	2903.6	2881.3	502.86 ug/L	502.86 ppb	15:19:15
3	Ti 334.940†	311984.9	311097.7	498.02 ug/L	498.02 ppb	15:18:55
3	Tl 190.801†	1634.0	1656.5	503.46 ug/L	503.46 ppb	15:19:15
3	U 409.014†	15699.9	17452.0	512.07 ug/L	512.07 ppb	15:18:55
3	V 292.402†	73424.9	74261.8	510.43 ug/L	510.43 ppb	15:18:55
3	Zn 213.857†	55210.1	54192.4	504.32 ug/L	504.32 ppb	15:18:55
3	SiO2†	81597.1	80557.1	5419.8 ug/L	5419.8 ppb	15:19:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869457.4	101.33 %		0.850			0.84%
Sc Radial	5179.1	101 %		1.1			1.06%
Y 371.029	722445.5	99.283 %		0.6876			0.69%
Y RADIAL	5512.9	100.1 %		1.23			1.22%
Ag 328.068†	110417.0	509.77 ug/L		5.736	509.77 ppb	5.736	1.13%
QC value within limits for Ag 328.068 Recovery = 101.95%							
Al 396.153Radial†	6429.7	5118.0 ug/L		2.65	5118.0 ppb	2.65	0.05%
QC value within limits for Al 396.153Radial Recovery = 102.36%							
As 188.979†	1181.0	509.16 ug/L		2.794	509.16 ppb	2.794	0.55%
QC value within limits for As 188.979 Recovery = 101.83%							
B 249.677†	22304.1	498.37 ug/L		6.341	498.37 ppb	6.341	1.27%
QC value within limits for B 249.677 Recovery = 99.67%							
Ba 233.527†	64836.8	503.62 ug/L		4.544	503.62 ppb	4.544	0.90%
QC value within limits for Ba 233.527 Recovery = 100.72%							
Be 313.107†	1339207.4	507.11 ug/L		0.501	507.11 ppb	0.501	0.10%
QC value within limits for Be 313.107 Recovery = 101.42%							
Ca 317.933Radial†	3154.9	5092.9 ug/L		39.11	5092.9 ppb	39.11	0.77%

QC value within limits for Ca 317.933 Radial Recovery = 101.86%							
Cd	226.502†	45863.2	504.43 ug/L	3.504	504.43 ppb	3.504	0.69%
QC value within limits for Cd 226.502 Recovery = 100.89%							
Co	228.616†	24990.8	507.17 ug/L	3.744	507.17 ppb	3.744	0.74%
QC value within limits for Co 228.616 Recovery = 101.43%							
Cr	267.716†	45183.6	501.91 ug/L	4.559	501.91 ppb	4.559	0.91%
QC value within limits for Cr 267.716 Recovery = 100.38%							
Cu	324.752†	167658.6	500.13 ug/L	6.939	500.13 ppb	6.939	1.39%
QC value within limits for Cu 324.752 Recovery = 100.03%							
Fe	238.204 Radial†	584.8	4987.4 ug/L	42.32	4987.4 ppb	42.32	0.85%
QC value within limits for Fe 238.204 Radial Recovery = 99.75%							
K	766.490 Radial†	27303.7	4966.1 ug/L	16.09	4966.1 ppb	16.09	0.32%
QC value within limits for K 766.490 Radial Recovery = 99.32%							
Mg	279.077 IEC†	152.9	5076.4 ug/L	61.32	5076.4 ppb	61.32	1.21%
QC value within limits for Mg 279.077 IEC Recovery = 101.53%							
Mn	257.610†	458952.1	503.60 ug/L	0.809	503.60 ppb	0.809	0.16%
QC value within limits for Mn 257.610 Recovery = 100.72%							
Mo	202.031†	7180.7	501.48 ug/L	2.295	501.48 ppb	2.295	0.46%
QC value within limits for Mo 202.031 Recovery = 100.30%							
Na	589.592 Radial†	32492.8	9314.1 ug/L	41.56	9314.1 ppb	41.56	0.45%
QC value within limits for Na 589.592 Radial Recovery = 93.14%							
Ni	231.604†	20408.3	504.73 ug/L	5.024	504.73 ppb	5.024	1.00%
QC value within limits for Ni 231.604 Recovery = 100.95%							
P	214.914†	4159.0	2379.7 ug/L	3.77	2379.7 ppb	3.77	0.16%
QC value within limits for P 214.914 Recovery = 95.19%							
Pb	220.353†	4142.8	503.09 ug/L	4.248	503.09 ppb	4.248	0.84%
QC value within limits for Pb 220.353 Recovery = 100.62%							
S	181.975 Axial†	728.5	1012.8 ug/L	16.02	1012.8 ppb	16.02	1.58%
QC value within limits for S 181.975 Axial Recovery = 101.28%							
Sb	206.836†	1473.6	517.57 ug/L	2.665	517.57 ppb	2.665	0.51%
QC value within limits for Sb 206.836 Recovery = 103.51%							
Se	196.026†	803.4	522.54 ug/L	6.987	522.54 ppb	6.987	1.34%
QC value within limits for Se 196.026 Recovery = 104.51%							
Si	251.611†	79864.9	2522.1 ug/L	26.63	2522.1 ppb	26.63	1.06%
QC value within limits for Si 251.611 Recovery = 100.88%							
Sn	189.927†	2878.1	502.31 ug/L	2.421	502.31 ppb	2.421	0.48%
QC value within limits for Sn 189.927 Recovery = 100.46%							
Sr	421.552†	76155.3	486.18 ug/L	0.305	486.18 ppb	0.305	0.06%
QC value within limits for Sr 421.552 Recovery = 97.24%							
Ti	334.940†	310020.4	496.29 ug/L	5.671	496.29 ppb	5.671	1.14%
QC value within limits for Ti 334.940 Recovery = 99.26%							
Tl	190.801†	1652.9	502.38 ug/L	1.434	502.38 ppb	1.434	0.29%
QC value within limits for Tl 190.801 Recovery = 100.48%							
U	409.014†	17486.3	513.09 ug/L	6.683	513.09 ppb	6.683	1.30%
QC value within limits for U 409.014 Recovery = 102.62%							
V	292.402†	73923.2	508.12 ug/L	5.028	508.12 ppb	5.028	0.99%
QC value within limits for V 292.402 Recovery = 101.62%							
Zn	213.857†	54009.2	502.62 ug/L	4.352	502.62 ppb	4.352	0.87%
QC value within limits for Zn 213.857 Recovery = 100.52%							
SiO2†		80185.3	5394.7 ug/L	31.56	5394.7 ppb	31.56	0.58%
QC value within limits for SiO2 Recovery = 100.88%							
All analyte(s) passed QC.							

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

Autosampler Location: 8
 Date Collected: 1/12/2010 15:21:40
 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	5225.1	5225.1	102 %		15:23:33
1	Y RADIAL	5612.5	5612.5	101.9 %		15:23:33
1	Al 396.153Radial†	-25.9	-19.2	-15.409 ug/L	-15.409 ppb	15:23:33
1	Ca 317.933Radial†	16.8	-2.8	-4.5010 ug/L	-4.5010 ppb	15:23:53
1	Fe 238.204 Radial†	9.1	-2.6	-22.389 ug/L	-22.389 ppb	15:23:53
1	K 766.490 Radial†	2708.5	143.0	26.029 ug/L	26.029 ppb	15:23:33
1	Mg 279.077 IEC†	2.0	-1.1	-35.396 ug/L	-35.396 ppb	15:23:53
1	Na 589.592 Radial†	-1201.7	131.2	37.603 ug/L	37.603 ppb	15:23:33
1	Sr 421.552†	4.3	-5.5	-0.0350 ug/L	-0.0350 ppb	15:23:33
1	Sc 361.383	865424.8	865424.8	100.86 %		15:24:50
1	Y 371.029	731274.2	731274.2	100.50 %		15:24:50
1	Ag 328.068†	328.4	-31.4	-0.1542 ug/L	-0.1542 ppb	15:24:50
1	As 188.979†	-19.4	4.7	2.0057 ug/L	2.0057 ppb	15:25:10
1	B 249.677†	-414.5	204.1	4.5852 ug/L	4.5852 ppb	15:25:10
1	Ba 233.527†	-21.1	-12.3	-0.0968 ug/L	-0.0968 ppb	15:25:10
1	Be 313.107†	-4537.2	-24.0	-0.0088 ug/L	-0.0088 ppb	15:24:50
1	Cd 226.502†	-195.1	8.2	0.0924 ug/L	0.0924 ppb	15:25:10
1	Co 228.616†	-80.4	-2.5	-0.0495 ug/L	-0.0495 ppb	15:25:10
1	Cr 267.716†	81.9	2.2	0.0228 ug/L	0.0228 ppb	15:25:10
1	Cu 324.752†	6375.2	-81.4	-0.2450 ug/L	-0.2450 ppb	15:24:50
1	Mn 257.610†	429.6	-3.9	-0.0050 ug/L	-0.0050 ppb	15:25:10
1	Mo 202.031†	27.5	5.7	0.3945 ug/L	0.3945 ppb	15:25:10
1	Ni 231.604†	41.8	-25.6	-0.6330 ug/L	-0.6330 ppb	15:25:10
1	P 214.914†	243.2	20.8	12.564 ug/L	12.564 ppb	15:25:10
1	Pb 220.353†	-55.2	7.4	0.8971 ug/L	0.8971 ppb	15:25:10
1	S 181.975 Axial†	46.8	2.6	3.5656 ug/L	3.5656 ppb	15:25:10
1	Sb 206.836†	48.7	14.9	5.0648 ug/L	5.0648 ppb	15:25:10
1	Se 196.026†	-31.3	1.0	0.5652 ug/L	0.5652 ppb	15:25:10
1	Si 251.611†	510.2	45.2	1.4269 ug/L	1.4269 ppb	15:25:10
1	Sn 189.927†	3.5	1.8	0.3058 ug/L	0.3058 ppb	15:25:10
1	Ti 334.940†	-1275.3	69.7	0.1130 ug/L	0.1130 ppb	15:24:50
1	Tl 190.801†	-37.6	-3.2	-0.9622 ug/L	-0.9622 ppb	15:25:10
1	U 409.014†	-1813.3	66.0	1.9458 ug/L	1.9458 ppb	15:24:50
1	V 292.402†	-1418.0	-46.2	-0.3009 ug/L	-0.3009 ppb	15:24:50
1	Zn 213.857†	654.6	24.4	0.2357 ug/L	0.2357 ppb	15:25:10
1	SiO2†	526.9	63.4	4.2625 ug/L	4.2625 ppb	15:26:06
2	Sc Radial	5271.6	5271.6	103 %		15:23:58
2	Y RADIAL	5661.6	5661.6	102.8 %		15:23:58
2	Al 396.153Radial†	-14.3	-7.7	-6.1236 ug/L	-6.1236 ppb	15:23:58
2	Ca 317.933Radial†	23.1	3.2	5.1629 ug/L	5.1629 ppb	15:24:18
2	Fe 238.204 Radial†	10.8	-1.0	-8.9072 ug/L	-8.9072 ppb	15:24:18
2	K 766.490 Radial†	2785.2	194.0	35.318 ug/L	35.318 ppb	15:23:58
2	Mg 279.077 IEC†	0.7	-2.4	-79.125 ug/L	-79.125 ppb	15:24:18
2	Na 589.592 Radial†	-1211.8	131.7	37.761 ug/L	37.761 ppb	15:23:58
2	Sr 421.552†	26.7	16.2	0.1034 ug/L	0.1034 ppb	15:23:58
2	Sc 361.383	855398.2	855398.2	99.688 %		15:25:15
2	Y 371.029	723767.5	723767.5	99.465 %		15:25:15
2	Ag 328.068†	277.6	-78.6	-0.3648 ug/L	-0.3648 ppb	15:25:15
2	As 188.979†	-17.8	6.0	2.5823 ug/L	2.5823 ppb	15:25:35
2	B 249.677†	-414.5	199.3	4.4755 ug/L	4.4755 ppb	15:25:35
2	Ba 233.527†	-12.1	-3.5	-0.0272 ug/L	-0.0272 ppb	15:25:35
2	Be 313.107†	-4541.2	-80.7	-0.0302 ug/L	-0.0302 ppb	15:25:15
2	Cd 226.502†	-201.4	-0.4	-0.0026 ug/L	-0.0026 ppb	15:25:35
2	Co 228.616†	-84.0	-7.0	-0.1424 ug/L	-0.1424 ppb	15:25:35
2	Cr 267.716†	76.8	-1.9	-0.0223 ug/L	-0.0223 ppb	15:25:35
2	Cu 324.752†	6442.1	59.8	0.1760 ug/L	0.1760 ppb	15:25:15
2	Mn 257.610†	434.3	5.9	0.0088 ug/L	0.0088 ppb	15:25:35
2	Mo 202.031†	19.7	-1.8	-0.1297 ug/L	-0.1297 ppb	15:25:35
2	Ni 231.604†	71.1	4.3	0.1058 ug/L	0.1058 ppb	15:25:35

2	P 214.914†	221.2	1.6	0.9527 ug/L	0.9527 ppb	15:25:35
2	Pb 220.353†	-55.9	6.1	0.7424 ug/L	0.7424 ppb	15:25:35
2	S 181.975 Axial†	53.0	9.3	12.889 ug/L	12.889 ppb	15:25:35
2	Sb 206.836†	42.5	9.2	3.1497 ug/L	3.1497 ppb	15:25:35
2	Se 196.026†	-34.7	-2.7	-1.7422 ug/L	-1.7422 ppb	15:25:35
2	Si 251.611†	503.9	44.8	1.4194 ug/L	1.4194 ppb	15:25:35
2	Sn 189.927†	10.2	8.6	1.5005 ug/L	1.5005 ppb	15:25:35
2	Ti 334.940†	-1254.2	76.0	0.1274 ug/L	0.1274 ppb	15:25:15
2	Tl 190.801†	-33.0	1.0	0.3115 ug/L	0.3115 ppb	15:25:35
2	U 409.014†	-1743.8	114.7	3.3769 ug/L	3.3769 ppb	15:25:15
2	V 292.402†	-1316.9	38.7	0.2666 ug/L	0.2666 ppb	15:25:15
2	Zn 213.857†	649.0	26.4	0.2477 ug/L	0.2477 ppb	15:25:35
2	SiO2†	518.6	61.2	4.1335 ug/L	4.1335 ppb	15:26:11
3	Sc Radial	5255.9	5255.9	103 %		15:24:23
3	Y RADIAL	5633.2	5633.2	102.3 %		15:24:23
3	Al 396.153Radial†	-2.5	3.7	2.9903 ug/L	2.9903 ppb	15:24:23
3	Ca 317.933Radial†	20.0	0.3	0.5165 ug/L	0.5165 ppb	15:24:43
3	Fe 238.204 Radial†	8.7	-3.1	-26.062 ug/L	-26.062 ppb	15:24:43
3	K 766.490 Radial†	2510.2	-65.8	-11.994 ug/L	-11.994 ppb	15:24:23
3	Mg 279.077 IEC†	2.6	-0.5	-17.894 ug/L	-17.894 ppb	15:24:43
3	Na 589.592 Radial†	-1219.7	120.5	34.536 ug/L	34.536 ppb	15:24:23
3	Sr 421.552†	-9.4	-18.9	-0.1206 ug/L	-0.1206 ppb	15:24:23
3	Sc 361.383	862318.6	862318.6	100.49 %		15:25:40
3	Y 371.029	729727.8	729727.8	100.28 %		15:25:40
3	Ag 328.068†	287.5	-71.0	-0.3321 ug/L	-0.3321 ppb	15:25:40
3	As 188.979†	-12.8	11.2	4.7880 ug/L	4.7880 ppb	15:26:00
3	B 249.677†	-412.2	204.9	4.6044 ug/L	4.6044 ppb	15:26:00
3	Ba 233.527†	-11.7	-3.1	-0.0241 ug/L	-0.0241 ppb	15:26:00
3	Be 313.107†	-4481.2	15.5	0.0062 ug/L	0.0062 ppb	15:25:40
3	Cd 226.502†	-176.4	26.1	0.2893 ug/L	0.2893 ppb	15:26:00
3	Co 228.616†	-97.3	-19.5	-0.3972 ug/L	-0.3972 ppb	15:26:00
3	Cr 267.716†	53.8	-25.4	-0.2820 ug/L	-0.2820 ppb	15:26:00
3	Cu 324.752†	6383.3	-50.5	-0.1516 ug/L	-0.1516 ppb	15:25:40
3	Mn 257.610†	375.9	-55.7	-0.0629 ug/L	-0.0629 ppb	15:26:00
3	Mo 202.031†	16.1	-5.6	-0.3907 ug/L	-0.3907 ppb	15:26:00
3	Ni 231.604†	64.9	-2.5	-0.0609 ug/L	-0.0609 ppb	15:26:00
3	P 214.914†	226.5	5.1	3.1275 ug/L	3.1275 ppb	15:26:00
3	Pb 220.353†	-92.1	-29.4	-3.5611 ug/L	-3.5611 ppb	15:26:00
3	S 181.975 Axial†	45.3	1.2	1.6618 ug/L	1.6618 ppb	15:26:00
3	Sb 206.836†	45.6	11.9	4.0527 ug/L	4.0527 ppb	15:26:00
3	Se 196.026†	-35.9	-3.7	-2.3981 ug/L	-2.3981 ppb	15:26:00
3	Si 251.611†	511.1	47.9	1.5203 ug/L	1.5203 ppb	15:26:00
3	Sn 189.927†	4.0	2.3	0.4073 ug/L	0.4073 ppb	15:26:00
3	Ti 334.940†	-1250.0	90.3	0.1467 ug/L	0.1467 ppb	15:25:40
3	Tl 190.801†	-34.4	-0.2	-0.0530 ug/L	-0.0530 ppb	15:26:00
3	U 409.014†	-1911.0	-37.7	-1.1054 ug/L	-1.1054 ppb	15:25:40
3	V 292.402†	-1331.2	35.1	0.2338 ug/L	0.2338 ppb	15:25:40
3	Zn 213.857†	645.5	17.7	0.1688 ug/L	0.1688 ppb	15:26:00
3	SiO2†	516.9	55.3	3.7420 ug/L	3.7420 ppb	15:26:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861047.2	100.35 %	0.598			0.60%
Sc Radial	5250.9	103 %	0.5			0.45%
Y 371.029	728256.5	100.08 %	0.545			0.54%
Y RADIAL	5635.8	102.4 %	0.45			0.44%
Ag 328.068†	-60.3	-0.2837 ug/L	0.11332	-0.2837 ppb	0.11332	39.94%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.7	-6.1809 ug/L	9.19995	-6.1809 ppb	9.19995	148.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.3	3.1253 ug/L	1.46853	3.1253 ppb	1.46853	46.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	202.8	4.5550 ug/L	0.06955	4.5550 ppb	0.06955	1.53%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-6.3	-0.0494 ug/L	0.04113	-0.0494 ppb	0.04113	83.32%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-29.7	-0.0110 ug/L	0.01830	-0.0110 ppb	0.01830	167.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.2	0.3928 ug/L	4.83315	0.3928 ppb	4.83315	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	11.3	0.1264 ug/L	0.14887	0.1264 ppb	0.14887	117.81%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-9.7	-0.1964 ug/L	0.17999	-0.1964 ppb	0.17999	91.66%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-8.4	-0.0938 ug/L	0.16455	-0.0938 ppb	0.16455	175.38%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-24.0	-0.0735 ug/L	0.22107	-0.0735 ppb	0.22107	300.67%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.2	-19.119 ug/L	9.0325	-19.119 ppb	9.0325	47.24%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	90.4	16.451 ug/L	25.0682	16.451 ppb	25.0682	152.38%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.3	-44.138 ug/L	31.5381	-44.138 ppb	31.5381	71.45%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-17.9	-0.0197 ug/L	0.03805	-0.0197 ppb	0.03805	192.83%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.6	-0.0420 ug/L	0.39988	-0.0420 ppb	0.39988	953.22%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	127.8	36.633 ug/L	1.8180	36.633 ppb	1.8180	4.96%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-7.9	-0.1961 ug/L	0.38750	-0.1961 ppb	0.38750	197.64%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.2	5.5481 ug/L	6.17261	5.5481 ppb	6.17261	111.26%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.3	-0.6405 ug/L	2.53046	-0.6405 ppb	2.53046	395.07%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.3	6.0389 ug/L	6.00844	6.0389 ppb	6.00844	99.50%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	12.0	4.0890 ug/L	0.95804	4.0890 ppb	0.95804	23.43%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.8	-1.1917 ug/L	1.55646	-1.1917 ppb	1.55646	130.61%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	46.0	1.4556 ug/L	0.05624	1.4556 ppb	0.05624	3.86%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.2	0.7379 ug/L	0.66242	0.7379 ppb	0.66242	89.77%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-2.7	-0.0174 ug/L	0.11305	-0.0174 ppb	0.11305	649.89%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	78.7	0.1290 ug/L	0.01690	0.1290 ppb	0.01690	13.10%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.8	-0.2346 ug/L	0.65600	-0.2346 ppb	0.65600	279.68%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	47.7	1.4057 ug/L	2.28945	1.4057 ppb	2.28945	162.86%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	9.2	0.0665 ug/L	0.31862	0.0665 ppb	0.31862	479.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	22.8	0.2174 ug/L	0.04251	0.2174 ppb	0.04251	19.55%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	60.0	4.0460 ug/L	0.27106	4.0460 ppb	0.27106	6.70%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 21
 Sample ID: 1202006013|937474|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:
 User canceled analysis.

Autosampler Location: 51
 Date Collected: 1/12/2010 16:30:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Analysis Begun

Start Time: 1/12/2010 16:37:36
 Logged In Analyst: Optima3
 Spectrometer Model: Optima 5300 DV, S/N 077C7090601

Plasma On Time: 1/11/2010 06:15:31
 Technique: ICP Continuous
 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\011210.sif
 Batch ID:
 Results Data Set: 011210
 Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 10
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/12/2010 16:37:37
 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	5168.0	5168.0	101 %		16:39:29
1	Y RADIAL	5450.0	5450.0	98.99 %		16:39:29
1	Al 396.153Radial†	6474.6	6421.8	5111.7 ug/L	5111.7 ppb	16:39:29
1	Ca 317.933Radial†	3212.3	3163.8	5107.2 ug/L	5107.2 ppb	16:39:49
1	Fe 238.204 Radial†	610.5	593.4	5060.9 ug/L	5060.9 ppb	16:39:49
1	K 766.490 Radial†	30267.6	27480.3	4998.1 ug/L	4998.1 ppb	16:39:29
1	Mg 279.077 IEC†	159.9	155.4	5161.3 ug/L	5161.3 ppb	16:39:49
1	Na 589.592 Radial†	32141.7	33157.8	9504.7 ug/L	9504.7 ppb	16:39:29
1	Sr 421.552†	77498.4	76782.6	490.18 ug/L	490.18 ppb	16:39:29
1	Sc 361.383	872998.3	872998.3	101.74 %		16:40:47
1	Y 371.029	726407.0	726407.0	99.827 %		16:40:47
1	Ag 328.068†	112133.1	109858.7	507.22 ug/L	507.22 ppb	16:40:52
1	As 188.979†	1167.9	1171.9	505.39 ug/L	505.39 ppb	16:41:12
1	B 249.677†	22264.1	22498.5	502.73 ug/L	502.73 ppb	16:40:52
1	Ba 233.527†	65709.8	64594.9	501.75 ug/L	501.75 ppb	16:40:52
1	Be 313.107†	1367645.3	1348735.5	510.74 ug/L	510.74 ppb	16:40:47
1	Cd 226.502†	46168.4	45580.6	501.31 ug/L	501.31 ppb	16:40:52
1	Co 228.616†	25187.1	24833.7	503.95 ug/L	503.95 ppb	16:40:52
1	Cr 267.716†	45790.1	44928.2	499.07 ug/L	499.07 ppb	16:40:52
1	Cu 324.752†	175771.3	166363.5	496.27 ug/L	496.27 ppb	16:40:52
1	Mn 257.610†	469179.2	460727.2	505.55 ug/L	505.55 ppb	16:40:47
1	Mo 202.031†	7323.7	7176.9	501.23 ug/L	501.23 ppb	16:41:12
1	Ni 231.604†	20712.5	20291.3	501.84 ug/L	501.84 ppb	16:40:52
1	P 214.914†	4456.6	4160.1	2381.2 ug/L	2381.2 ppb	16:41:12
1	Pb 220.353†	4138.1	4129.6	501.48 ug/L	501.48 ppb	16:41:12
1	S 181.975 Axial†	784.4	727.2	1011.0 ug/L	1011.0 ppb	16:41:12
1	Sb 206.836†	1526.7	1467.1	515.31 ug/L	515.31 ppb	16:41:12
1	Se 196.026†	780.5	799.2	520.06 ug/L	520.06 ppb	16:41:12
1	Si 251.611†	81272.2	79421.9	2508.0 ug/L	2508.0 ppb	16:40:52
1	Sn 189.927†	2928.4	2876.6	502.05 ug/L	502.05 ppb	16:41:12
1	Ti 334.940†	322696.1	318512.7	509.89 ug/L	509.89 ppb	16:40:47
1	Tl 190.801†	1655.4	1661.2	505.02 ug/L	505.02 ppb	16:41:12
1	U 409.014†	15811.9	17405.4	510.70 ug/L	510.70 ppb	16:40:52
1	V 292.402†	73510.4	73613.2	505.99 ug/L	505.99 ppb	16:40:52
1	Zn 213.857†	55306.7	53736.4	500.08 ug/L	500.08 ppb	16:40:52
1	SiO2†	81238.3	79390.2	5341.1 ug/L	5341.1 ppb	16:42:20
2	Sc Radial	5099.6	5099.6	99.6 %		16:39:54
2	Y RADIAL	5413.6	5413.6	98.33 %		16:39:54
2	Al 396.153Radial†	6527.8	6561.4	5223.2 ug/L	5223.2 ppb	16:39:54

2	Ca 317.933Radial†	3226.9	3221.2	5199.8 ug/L	5199.8 ppb	16:40:14
2	Fe 238.204 Radial†	613.7	604.7	5156.6 ug/L	5156.6 ppb	16:40:14
2	K 766.490 Radial†	30224.6	27839.7	5063.5 ug/L	5063.5 ppb	16:39:54
2	Mg 279.077 IEC†	165.2	162.8	5407.2 ug/L	5407.2 ppb	16:40:14
2	Na 589.592 Radial†	32021.2	33464.1	9592.5 ug/L	9592.5 ppb	16:39:54
2	Sr 421.552†	77501.0	77815.8	496.78 ug/L	496.78 ppb	16:39:54
2	Sc 361.383	870542.5	870542.5	101.45 %		16:41:18
2	Y 371.029	722660.3	722660.3	99.312 %		16:41:18
2	Ag 328.068†	113319.6	111339.2	514.07 ug/L	514.07 ppb	16:41:23
2	As 188.979†	1174.0	1181.1	509.37 ug/L	509.37 ppb	16:41:43
2	B 249.677†	22517.1	22809.6	509.68 ug/L	509.68 ppb	16:41:23
2	Ba 233.527†	66222.2	65282.1	507.09 ug/L	507.09 ppb	16:41:23
2	Be 313.107†	1364652.9	1349578.2	511.06 ug/L	511.06 ppb	16:41:18
2	Cd 226.502†	46746.7	46278.6	508.98 ug/L	508.98 ppb	16:41:23
2	Co 228.616†	25428.1	25141.1	510.19 ug/L	510.19 ppb	16:41:23
2	Cr 267.716†	46281.2	45539.2	505.86 ug/L	505.86 ppb	16:41:23
2	Cu 324.752†	178438.0	169479.3	505.57 ug/L	505.57 ppb	16:41:23
2	Mn 257.610†	470193.7	463028.1	508.08 ug/L	508.08 ppb	16:41:18
2	Mo 202.031†	7341.2	7214.4	503.85 ug/L	503.85 ppb	16:41:43
2	Ni 231.604†	20894.2	20527.8	507.69 ug/L	507.69 ppb	16:41:23
2	P 214.914†	4467.8	4183.5	2393.1 ug/L	2393.1 ppb	16:41:43
2	Pb 220.353†	4159.2	4161.8	505.39 ug/L	505.39 ppb	16:41:43
2	S 181.975 Axial†	788.7	733.6	1019.9 ug/L	1019.9 ppb	16:41:43
2	Sb 206.836†	1534.0	1478.6	519.30 ug/L	519.30 ppb	16:41:43
2	Se 196.026†	784.9	805.6	524.45 ug/L	524.45 ppb	16:41:43
2	Si 251.611†	82361.9	80721.4	2549.1 ug/L	2549.1 ppb	16:41:23
2	Sn 189.927†	2939.1	2895.4	505.33 ug/L	505.33 ppb	16:41:43
2	Ti 334.940†	322767.0	319477.4	511.42 ug/L	511.42 ppb	16:41:18
2	Tl 190.801†	1654.3	1664.7	506.05 ug/L	506.05 ppb	16:41:43
2	U 409.014†	15810.8	17448.1	511.94 ug/L	511.94 ppb	16:41:23
2	V 292.402†	74091.8	74390.1	511.28 ug/L	511.28 ppb	16:41:23
2	Zn 213.857†	55916.4	54490.7	507.10 ug/L	507.10 ppb	16:41:23
2	SiO2†	81830.2	80198.9	5395.6 ug/L	5395.6 ppb	16:42:25
3	Sc Radial	5210.0	5210.0	102 %		16:40:19
3	Y RADIAL	5503.0	5503.0	99.96 %		16:40:19
3	Al 396.153Radial†	6560.0	6454.0	5137.3 ug/L	5137.3 ppb	16:40:19
3	Ca 317.933Radial†	3229.1	3154.6	5092.4 ug/L	5092.4 ppb	16:40:39
3	Fe 238.204 Radial†	615.2	593.1	5058.5 ug/L	5058.5 ppb	16:40:39
3	K 766.490 Radial†	30428.4	27396.6	4982.9 ug/L	4982.9 ppb	16:40:19
3	Mg 279.077 IEC†	161.9	156.0	5181.9 ug/L	5181.9 ppb	16:40:39
3	Na 589.592 Radial†	32319.9	33076.1	9481.3 ug/L	9481.3 ppb	16:40:19
3	Sr 421.552†	78061.7	76717.2	489.77 ug/L	489.77 ppb	16:40:19
3	Sc 361.383	865526.3	865526.3	100.87 %		16:41:49
3	Y 371.029	718990.0	718990.0	98.808 %		16:41:49
3	Ag 328.068†	113313.9	111980.9	516.99 ug/L	516.99 ppb	16:41:54
3	As 188.979†	1163.7	1177.6	507.81 ug/L	507.81 ppb	16:42:14
3	B 249.677†	22726.4	23145.8	517.22 ug/L	517.22 ppb	16:41:54
3	Ba 233.527†	66387.7	65824.5	511.29 ug/L	511.29 ppb	16:41:54
3	Be 313.107†	1348141.4	1341004.7	507.82 ug/L	507.82 ppb	16:41:49
3	Cd 226.502†	46552.7	46353.3	509.82 ug/L	509.82 ppb	16:41:54
3	Co 228.616†	25490.7	25348.4	514.40 ug/L	514.40 ppb	16:41:54
3	Cr 267.716†	46239.9	45762.6	508.34 ug/L	508.34 ppb	16:41:54
3	Cu 324.752†	178657.0	170715.8	509.25 ug/L	509.25 ppb	16:41:54
3	Mn 257.610†	464741.8	460309.2	505.09 ug/L	505.09 ppb	16:41:49
3	Mo 202.031†	7289.6	7205.2	503.20 ug/L	503.20 ppb	16:42:14
3	Ni 231.604†	20940.9	20693.5	511.79 ug/L	511.79 ppb	16:41:54
3	P 214.914†	4416.2	4157.8	2376.8 ug/L	2376.8 ppb	16:42:14
3	Pb 220.353†	4103.8	4130.7	501.62 ug/L	501.62 ppb	16:42:14
3	S 181.975 Axial†	777.9	727.3	1011.2 ug/L	1011.2 ppb	16:42:14
3	Sb 206.836†	1508.0	1461.6	513.53 ug/L	513.53 ppb	16:42:14
3	Se 196.026†	777.2	802.6	522.21 ug/L	522.21 ppb	16:42:14
3	Si 251.611†	82448.4	81277.7	2566.8 ug/L	2566.8 ppb	16:41:54
3	Sn 189.927†	2920.1	2893.3	504.95 ug/L	504.95 ppb	16:42:14
3	Ti 334.940†	319319.0	317902.8	508.90 ug/L	508.90 ppb	16:41:49
3	Tl 190.801†	1643.7	1663.6	505.67 ug/L	505.67 ppb	16:42:14
3	U 409.014†	15896.3	17623.2	517.10 ug/L	517.10 ppb	16:41:54
3	V 292.402†	74237.0	74957.3	515.14 ug/L	515.14 ppb	16:41:54
3	Zn 213.857†	55837.9	54732.3	509.35 ug/L	509.35 ppb	16:41:54
3	SiO2†	81357.6	80197.9	5395.5 ug/L	5395.5 ppb	16:42:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869689.0	101.35 %	0.444			0.44%
Sc Radial	5159.2	101 %	1.1			1.08%
Y 371.029	722685.8	99.316 %	0.5097			0.51%
Y RADIAL	5455.5	99.09 %	0.817			0.82%
Ag 328.068†	111059.6	512.76 ug/L	5.013	512.76 ppb	5.013	0.98%
QC value within limits for Ag 328.068 Recovery = 102.55%						
Al 396.153Radial†	6479.0	5157.4 ug/L	58.40	5157.4 ppb	58.40	1.13%
QC value within limits for Al 396.153Radial Recovery = 103.15%						
As 188.979†	1176.9	507.52 ug/L	2.005	507.52 ppb	2.005	0.39%
QC value within limits for As 188.979 Recovery = 101.50%						
B 249.677†	22818.0	509.88 ug/L	7.251	509.88 ppb	7.251	1.42%
QC value within limits for B 249.677 Recovery = 101.98%						
Ba 233.527†	65233.8	506.71 ug/L	4.785	506.71 ppb	4.785	0.94%
QC value within limits for Ba 233.527 Recovery = 101.34%						
Be 313.107†	1346439.4	509.88 ug/L	1.788	509.88 ppb	1.788	0.35%
QC value within limits for Be 313.107 Recovery = 101.98%						
Ca 317.933Radial†	3179.9	5133.1 ug/L	58.22	5133.1 ppb	58.22	1.13%
QC value within limits for Ca 317.933Radial Recovery = 102.66%						
Cd 226.502†	46070.9	506.70 ug/L	4.690	506.70 ppb	4.690	0.93%
QC value within limits for Cd 226.502 Recovery = 101.34%						
Co 228.616†	25107.7	509.51 ug/L	5.258	509.51 ppb	5.258	1.03%
QC value within limits for Co 228.616 Recovery = 101.90%						
Cr 267.716†	45410.0	504.43 ug/L	4.798	504.43 ppb	4.798	0.95%
QC value within limits for Cr 267.716 Recovery = 100.89%						
Cu 324.752†	168852.9	503.70 ug/L	6.689	503.70 ppb	6.689	1.33%
QC value within limits for Cu 324.752 Recovery = 100.74%						
Fe 238.204 Radial†	597.1	5092.0 ug/L	55.98	5092.0 ppb	55.98	1.10%
QC value within limits for Fe 238.204 Radial Recovery = 101.84%						
K 766.490 Radial†	27572.2	5014.9 ug/L	42.82	5014.9 ppb	42.82	0.85%
QC value within limits for K 766.490 Radial Recovery = 100.30%						
Mg 279.077 IEC†	158.1	5250.1 ug/L	136.40	5250.1 ppb	136.40	2.60%
QC value within limits for Mg 279.077 IEC Recovery = 105.00%						
Mn 257.610†	461354.9	506.24 ug/L	1.606	506.24 ppb	1.606	0.32%
QC value within limits for Mn 257.610 Recovery = 101.25%						
Mo 202.031†	7198.8	502.76 ug/L	1.367	502.76 ppb	1.367	0.27%
QC value within limits for Mo 202.031 Recovery = 100.55%						
Na 589.592 Radial†	33232.7	9526.2 ug/L	58.64	9526.2 ppb	58.64	0.62%
QC value within limits for Na 589.592 Radial Recovery = 95.26%						
Ni 231.604†	20504.2	507.11 ug/L	4.999	507.11 ppb	4.999	0.99%
QC value within limits for Ni 231.604 Recovery = 101.42%						
P 214.914†	4167.2	2383.7 ug/L	8.40	2383.7 ppb	8.40	0.35%
QC value within limits for P 214.914 Recovery = 95.35%						
Pb 220.353†	4140.7	502.83 ug/L	2.221	502.83 ppb	2.221	0.44%
QC value within limits for Pb 220.353 Recovery = 100.57%						
S 181.975 Axial†	729.3	1014.0 ug/L	5.09	1014.0 ppb	5.09	0.50%
QC value within limits for S 181.975 Axial Recovery = 101.40%						
Sb 206.836†	1469.1	516.05 ug/L	2.958	516.05 ppb	2.958	0.57%
QC value within limits for Sb 206.836 Recovery = 103.21%						
Se 196.026†	802.5	522.24 ug/L	2.191	522.24 ppb	2.191	0.42%
QC value within limits for Se 196.026 Recovery = 104.45%						
Si 251.611†	80473.7	2541.3 ug/L	30.13	2541.3 ppb	30.13	1.19%
QC value within limits for Si 251.611 Recovery = 101.65%						
Sn 189.927†	2888.4	504.11 ug/L	1.794	504.11 ppb	1.794	0.36%
QC value within limits for Sn 189.927 Recovery = 100.82%						
Sr 421.552†	77105.2	492.24 ug/L	3.934	492.24 ppb	3.934	0.80%
QC value within limits for Sr 421.552 Recovery = 98.45%						
Ti 334.940†	318631.0	510.07 ug/L	1.270	510.07 ppb	1.270	0.25%
QC value within limits for Ti 334.940 Recovery = 102.01%						
Tl 190.801†	1663.2	505.58 ug/L	0.524	505.58 ppb	0.524	0.10%
QC value within limits for Tl 190.801 Recovery = 101.12%						
U 409.014†	17492.3	513.25 ug/L	3.391	513.25 ppb	3.391	0.66%
QC value within limits for U 409.014 Recovery = 102.65%						
V 292.402†	74320.2	510.80 ug/L	4.594	510.80 ppb	4.594	0.90%
QC value within limits for V 292.402 Recovery = 102.16%						
Zn 213.857†	54319.8	505.51 ug/L	4.835	505.51 ppb	4.835	0.96%
QC value within limits for Zn 213.857 Recovery = 101.10%						
SiO2†	79929.0	5377.4 ug/L	31.43	5377.4 ppb	31.43	0.58%
QC value within limits for SiO2 Recovery = 100.56%						

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

Autosampler Location: 8
 Date Collected: 1/12/2010 16:44:41
 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	5218.4	5218.4	102 %		16:46:34
1	Y RADIAL	5573.5	5573.5	101.2 %		16:46:34
1	Al 396.153Radial†	-15.3	-8.9	-7.1141 ug/L	-7.1141 ppb	16:46:34
1	Ca 317.933Radial†	21.4	1.8	2.8711 ug/L	2.8711 ppb	16:46:54
1	Fe 238.204 Radial†	9.6	-2.1	-17.792 ug/L	-17.792 ppb	16:46:54
1	K 766.490 Radial†	2733.4	170.8	31.100 ug/L	31.100 ppb	16:46:34
1	Mg 279.077 IEC†	2.1	-1.0	-32.518 ug/L	-32.518 ppb	16:46:54
1	Na 589.592 Radial†	-1270.0	62.6	17.949 ug/L	17.949 ppb	16:46:34
1	Sr 421.552†	-23.6	-32.9	-0.2100 ug/L	-0.2100 ppb	16:46:34
1	Sc 361.383	860706.5	860706.5	100.31 %		16:47:50
1	Y 371.029	727524.4	727524.4	99.981 %		16:47:50
1	Ag 328.068†	336.5	-21.6	-0.1033 ug/L	-0.1033 ppb	16:47:55
1	As 188.979†	-14.4	9.6	4.1016 ug/L	4.1016 ppb	16:48:15
1	B 249.677†	-264.3	351.6	7.8955 ug/L	7.8955 ppb	16:48:15
1	Ba 233.527†	-3.7	4.9	0.0370 ug/L	0.0370 ppb	16:48:15
1	Be 313.107†	-4535.9	-47.4	-0.0179 ug/L	-0.0179 ppb	16:47:55
1	Cd 226.502†	-175.7	26.5	0.2924 ug/L	0.2924 ppb	16:48:15
1	Co 228.616†	-87.1	-9.6	-0.1930 ug/L	-0.1930 ppb	16:48:15
1	Cr 267.716†	86.1	6.9	0.0766 ug/L	0.0766 ppb	16:48:15
1	Cu 324.752†	6402.2	-19.8	-0.0590 ug/L	-0.0590 ppb	16:47:55
1	Mn 257.610†	423.5	-7.6	-0.0088 ug/L	-0.0088 ppb	16:48:15
1	Mo 202.031†	28.8	7.1	0.4933 ug/L	0.4933 ppb	16:48:15
1	Ni 231.604†	65.1	-2.1	-0.0524 ug/L	-0.0524 ppb	16:48:15
1	P 214.914†	218.7	-2.3	-1.3528 ug/L	-1.3528 ppb	16:48:15
1	Pb 220.353†	-63.0	-0.6	-0.0693 ug/L	-0.0693 ppb	16:48:15
1	S 181.975 Axial†	43.7	-0.3	-0.3568 ug/L	-0.3568 ppb	16:48:15
1	Sb 206.836†	36.8	3.2	1.1274 ug/L	1.1274 ppb	16:48:15
1	Se 196.026†	-27.7	4.4	2.7147 ug/L	2.7147 ppb	16:48:15
1	Si 251.611†	545.7	83.4	2.6337 ug/L	2.6337 ppb	16:48:15
1	Sn 189.927†	8.2	6.5	1.1376 ug/L	1.1376 ppb	16:48:15
1	Ti 334.940†	-1321.3	16.9	0.0310 ug/L	0.0310 ppb	16:47:55
1	Tl 190.801†	-34.9	-0.7	-0.2031 ug/L	-0.2031 ppb	16:48:15
1	U 409.014†	-1938.6	-68.8	-2.0243 ug/L	-2.0243 ppb	16:47:50
1	V 292.402†	-1371.8	-7.9	-0.0480 ug/L	-0.0480 ppb	16:47:55
1	Zn 213.857†	692.1	65.3	0.6154 ug/L	0.6154 ppb	16:48:15
1	SiO2†	586.6	125.8	8.4731 ug/L	8.4731 ppb	16:49:21
2	Sc Radial	5184.3	5184.3	101 %		16:46:59
2	Y RADIAL	5539.4	5539.4	100.6 %		16:46:59
2	Al 396.153Radial†	-7.0	-0.7	-0.5625 ug/L	-0.5625 ppb	16:46:59
2	Ca 317.933Radial†	17.5	-1.9	-3.0519 ug/L	-3.0519 ppb	16:47:19
2	Fe 238.204 Radial†	9.6	-2.1	-17.883 ug/L	-17.883 ppb	16:47:19
2	K 766.490 Radial†	2864.9	318.3	57.947 ug/L	57.947 ppb	16:46:59
2	Mg 279.077 IEC†	1.0	-2.1	-69.771 ug/L	-69.771 ppb	16:47:19
2	Na 589.592 Radial†	-1203.9	119.7	34.315 ug/L	34.315 ppb	16:46:59
2	Sr 421.552†	15.6	5.7	0.0363 ug/L	0.0363 ppb	16:46:59
2	Sc 361.383	873944.8	873944.8	101.85 %		16:48:21
2	Y 371.029	737504.9	737504.9	101.35 %		16:48:21
2	Ag 328.068†	387.1	23.0	0.1084 ug/L	0.1084 ppb	16:48:26
2	As 188.979†	-21.8	2.5	1.0686 ug/L	1.0686 ppb	16:48:46
2	B 249.677†	-292.5	328.0	7.3636 ug/L	7.3636 ppb	16:48:46
2	Ba 233.527†	-10.9	-2.1	-0.0149 ug/L	-0.0149 ppb	16:48:46
2	Be 313.107†	-4530.7	26.3	0.0101 ug/L	0.0101 ppb	16:48:26
2	Cd 226.502†	-178.8	26.1	0.2877 ug/L	0.2877 ppb	16:48:46
2	Co 228.616†	-72.2	6.3	0.1293 ug/L	0.1293 ppb	16:48:46
2	Cr 267.716†	96.6	15.9	0.1790 ug/L	0.1790 ppb	16:48:46
2	Cu 324.752†	6419.5	-99.5	-0.2944 ug/L	-0.2944 ppb	16:48:26
2	Mn 257.610†	437.4	-0.3	0.0007 ug/L	0.0007 ppb	16:48:46
2	Mo 202.031†	25.0	2.9	0.2022 ug/L	0.2022 ppb	16:48:46
2	Ni 231.604†	59.9	-8.2	-0.2020 ug/L	-0.2020 ppb	16:48:46

2	P 214.914†	220.0	-4.3	-2.4558 ug/L	-2.4558 ppb	16:48:46
2	Pb 220.353†	-36.2	26.6	3.2234 ug/L	3.2234 ppb	16:48:46
2	S 181.975 Axial†	47.9	3.2	4.4351 ug/L	4.4351 ppb	16:48:46
2	Sb 206.836†	40.5	6.4	2.1928 ug/L	2.1928 ppb	16:48:46
2	Se 196.026†	-33.1	-0.5	-0.3370 ug/L	-0.3370 ppb	16:48:46
2	Si 251.611†	519.7	49.6	1.5665 ug/L	1.5665 ppb	16:48:46
2	Sn 189.927†	12.1	10.2	1.7774 ug/L	1.7774 ppb	16:48:46
2	Ti 334.940†	-1310.7	47.2	0.0835 ug/L	0.0835 ppb	16:48:26
2	Tl 190.801†	-41.5	-6.7	-2.0239 ug/L	-2.0239 ppb	16:48:46
2	U 409.014†	-2110.9	-208.7	-6.1418 ug/L	-6.1418 ppb	16:48:21
2	V 292.402†	-1268.1	114.7	0.7701 ug/L	0.7701 ppb	16:48:26
2	Zn 213.857†	691.3	54.1	0.5116 ug/L	0.5116 ppb	16:48:46
2	SiO2†	540.0	71.2	4.7955 ug/L	4.7955 ppb	16:49:26
3	Sc Radial	5230.9	5230.9	102 %		16:47:24
3	Y RADIAL	5568.2	5568.2	101.1 %		16:47:24
3	Al 396.153Radial†	-0.3	5.9	4.7145 ug/L	4.7145 ppb	16:47:24
3	Ca 317.933Radial†	22.7	3.0	4.8329 ug/L	4.8329 ppb	16:47:44
3	Fe 238.204 Radial†	10.3	-1.5	-12.710 ug/L	-12.710 ppb	16:47:44
3	K 766.490 Radial†	2706.3	137.9	25.102 ug/L	25.102 ppb	16:47:24
3	Mg 279.077 IEC†	3.0	-0.1	-3.0016 ug/L	-3.0016 ppb	16:47:44
3	Na 589.592 Radial†	-1233.4	101.4	29.061 ug/L	29.061 ppb	16:47:24
3	Sr 421.552†	2.5	-7.3	-0.0467 ug/L	-0.0467 ppb	16:47:24
3	Sc 361.383	866602.9	866602.9	100.99 %		16:48:51
3	Y 371.029	731442.2	731442.2	100.52 %		16:48:51
3	Ag 328.068†	264.8	-94.9	-0.4343 ug/L	-0.4343 ppb	16:48:56
3	As 188.979†	-26.7	-2.5	-1.0819 ug/L	-1.0819 ppb	16:49:16
3	B 249.677†	-250.0	367.5	8.2513 ug/L	8.2513 ppb	16:49:16
3	Ba 233.527†	-17.0	-8.3	-0.0642 ug/L	-0.0642 ppb	16:49:16
3	Be 313.107†	-4528.8	-9.5	-0.0032 ug/L	-0.0032 ppb	16:48:56
3	Cd 226.502†	-193.5	10.0	0.1107 ug/L	0.1107 ppb	16:49:16
3	Co 228.616†	-76.0	1.9	0.0388 ug/L	0.0388 ppb	16:49:16
3	Cr 267.716†	77.4	-2.3	-0.0237 ug/L	-0.0237 ppb	16:49:16
3	Cu 324.752†	6433.2	-32.5	-0.0949 ug/L	-0.0949 ppb	16:48:56
3	Mn 257.610†	429.5	-4.5	-0.0061 ug/L	-0.0061 ppb	16:49:16
3	Mo 202.031†	19.2	-2.6	-0.1856 ug/L	-0.1856 ppb	16:49:16
3	Ni 231.604†	70.8	3.1	0.0768 ug/L	0.0768 ppb	16:49:16
3	P 214.914†	239.8	17.1	10.318 ug/L	10.318 ppb	16:49:16
3	Pb 220.353†	-73.2	-10.3	-1.2396 ug/L	-1.2396 ppb	16:49:16
3	S 181.975 Axial†	49.5	5.2	7.2009 ug/L	7.2009 ppb	16:49:16
3	Sb 206.836†	37.9	4.1	1.3937 ug/L	1.3937 ppb	16:49:16
3	Se 196.026†	-36.4	-4.0	-2.5865 ug/L	-2.5865 ppb	16:49:16
3	Si 251.611†	516.7	51.0	1.6162 ug/L	1.6162 ppb	16:49:16
3	Sn 189.927†	5.6	3.9	0.6846 ug/L	0.6846 ppb	16:49:16
3	Ti 334.940†	-1222.7	123.4	0.2008 ug/L	0.2008 ppb	16:48:56
3	Tl 190.801†	-39.1	-4.6	-1.3988 ug/L	-1.3988 ppb	16:49:16
3	U 409.014†	-2057.2	-173.0	-5.0926 ug/L	-5.0926 ppb	16:48:51
3	V 292.402†	-1343.6	29.4	0.1883 ug/L	0.1883 ppb	16:48:56
3	Zn 213.857†	695.1	63.6	0.5983 ug/L	0.5983 ppb	16:49:16
3	SiO2†	549.5	85.1	5.7435 ug/L	5.7435 ppb	16:49:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867084.7	101.05 %	0.773			0.76%
Sc Radial	5211.2	102 %	0.5			0.46%
Y 371.029	732157.2	100.62 %	0.691			0.69%
Y RADIAL	5560.4	101.0 %	0.33			0.33%
Ag 328.068†	-31.1	-0.1431 ug/L	0.27350	-0.1431 ppb	0.27350	191.19%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.2	-0.9874 ug/L	5.92572	-0.9874 ppb	5.92572	600.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.2	1.3628 ug/L	2.60425	1.3628 ppb	2.60425	191.10%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	349.0	7.8368 ug/L	0.44675	7.8368 ppb	0.44675	5.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.8	-0.0140 ug/L	0.05056	-0.0140 ppb	0.05056	360.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-10.2	-0.0036 ug/L	0.01398	-0.0036 ppb	0.01398	384.53%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.0	1.5507 ug/L	4.10487	1.5507 ppb	4.10487	264.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	20.9	0.2303 ug/L	0.10358	0.2303 ppb	0.10358	44.98%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.4	-0.0083 ug/L	0.16623	-0.0083 ppb	0.16623	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	6.8	0.0773 ug/L	0.10138	0.0773 ppb	0.10138	131.10%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-50.6	-0.1494 ug/L	0.12686	-0.1494 ppb	0.12686	84.90%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.9	-16.128 ug/L	2.9608	-16.128 ppb	2.9608	18.36%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	209.0	38.050 ug/L	17.4906	38.050 ppb	17.4906	45.97%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.1	-35.097 ug/L	33.4592	-35.097 ppb	33.4592	95.33%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-4.2	-0.0047 ug/L	0.00488	-0.0047 ppb	0.00488	103.49%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.5	0.1700 ug/L	0.34062	0.1700 ppb	0.34062	200.38%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	94.6	27.109 ug/L	8.3558	27.109 ppb	8.3558	30.82%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-2.4	-0.0592 ug/L	0.13953	-0.0592 ppb	0.13953	235.56%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.5	2.1699 ug/L	7.07818	2.1699 ppb	7.07818	326.20%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	5.3	0.6382 ug/L	2.31407	0.6382 ppb	2.31407	362.62%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.7	3.7598 ug/L	3.82385	3.7598 ppb	3.82385	101.70%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.6	1.5713 ug/L	0.55445	1.5713 ppb	0.55445	35.29%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.0	-0.0696 ug/L	2.66068	-0.0696 ppb	2.66068	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	61.3	1.9388 ug/L	0.60229	1.9388 ppb	0.60229	31.07%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.9	1.1998 ug/L	0.54903	1.1998 ppb	0.54903	45.76%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-11.5	-0.0735 ug/L	0.12530	-0.0735 ppb	0.12530	170.57%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	62.5	0.1051 ug/L	0.08693	0.1051 ppb	0.08693	82.70%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.0	-1.2086 ug/L	0.92516	-1.2086 ppb	0.92516	76.55%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-150.2	-4.4196 ug/L	2.13966	-4.4196 ppb	2.13966	48.41%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	45.4	0.3035 ug/L	0.42103	0.3035 ppb	0.42103	138.73%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	61.0	0.5751 ug/L	0.05569	0.5751 ppb	0.05569	9.68%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	94.0	6.3373 ug/L	1.90935	6.3373 ppb	1.90935	30.13%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/12/2010 17:33:32

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	5136.5	5136.5	100 %		17:35:24
1	Y RADIAL	5441.1	5441.1	98.83 %		17:35:24
1	Al 396.153Radial†	6580.9	6567.2	5227.4 ug/L	5227.4 ppb	17:35:24
1	Ca 317.933Radial†	3252.5	3223.4	5203.4 ug/L	5203.4 ppb	17:35:44
1	Fe 238.204 Radial†	623.0	609.6	5198.6 ug/L	5198.6 ppb	17:35:44
1	K 766.490 Radial†	30109.1	27506.4	5002.7 ug/L	5002.7 ppb	17:35:24
1	Mg 279.077 IEC†	162.9	159.3	5290.9 ug/L	5290.9 ppb	17:35:44
1	Na 589.592 Radial†	32766.4	33976.0	9739.2 ug/L	9739.2 ppb	17:35:24
1	Sr 421.552†	78723.0	78474.9	500.99 ug/L	500.99 ppb	17:35:24
1	Sc 361.383	849021.6	849021.6	98.945 %		17:36:43
1	Y 371.029	704216.6	704216.6	96.778 %		17:36:43
1	Ag 328.068†	110165.7	110983.0	512.46 ug/L	512.46 ppb	17:36:43
1	As 188.979†	1159.7	1196.0	515.71 ug/L	515.71 ppb	17:37:03
1	B 249.677†	21531.6	22376.3	499.95 ug/L	499.95 ppb	17:36:43
1	Ba 233.527†	64856.8	65556.7	509.21 ug/L	509.21 ppb	17:36:43
1	Be 313.107†	1337219.6	1355948.0	513.47 ug/L	513.47 ppb	17:36:43
1	Cd 226.502†	45681.0	46369.5	509.97 ug/L	509.97 ppb	17:36:43
1	Co 228.616†	24685.2	25025.5	507.86 ug/L	507.86 ppb	17:37:03
1	Cr 267.716†	45243.7	45647.0	507.07 ug/L	507.07 ppb	17:36:43
1	Cu 324.752†	174798.3	170259.1	507.91 ug/L	507.91 ppb	17:36:43
1	Mn 257.610†	459753.1	464223.9	509.40 ug/L	509.40 ppb	17:36:43
1	Mo 202.031†	7291.7	7347.8	513.16 ug/L	513.16 ppb	17:37:03
1	Ni 231.604†	20374.0	20524.2	507.60 ug/L	507.60 ppb	17:37:03
1	P 214.914†	4416.5	4243.3	2428.4 ug/L	2428.4 ppb	17:37:03
1	Pb 220.353†	4126.5	4232.7	514.00 ug/L	514.00 ppb	17:37:03
1	S 181.975 Axial†	773.3	737.6	1025.5 ug/L	1025.5 ppb	17:37:03
1	Sb 206.836†	1493.2	1475.7	518.59 ug/L	518.59 ppb	17:37:03
1	Se 196.026†	776.4	816.7	531.54 ug/L	531.54 ppb	17:37:03
1	Si 251.611†	80363.4	80759.4	2550.2 ug/L	2550.2 ppb	17:36:43
1	Sn 189.927†	2895.4	2924.6	510.42 ug/L	510.42 ppb	17:37:03
1	Ti 334.940†	315537.6	320235.1	512.65 ug/L	512.65 ppb	17:36:43
1	Tl 190.801†	1602.7	1653.9	502.83 ug/L	502.83 ppb	17:37:03
1	U 409.014†	14822.3	16844.2	494.15 ug/L	494.15 ppb	17:36:43
1	V 292.402†	72212.9	74342.3	511.05 ug/L	511.05 ppb	17:36:43
1	Zn 213.857†	54595.4	54552.7	507.68 ug/L	507.68 ppb	17:36:43
1	SiO2†	81975.0	82389.8	5543.1 ug/L	5543.1 ppb	17:38:03
2	Sc Radial	5164.2	5164.2	101 %		17:35:49
2	Y RADIAL	5458.1	5458.1	99.14 %		17:35:49
2	Al 396.153Radial†	6512.3	6464.0	5144.9 ug/L	5144.9 ppb	17:35:49
2	Ca 317.933Radial†	3244.8	3198.4	5163.1 ug/L	5163.1 ppb	17:36:09
2	Fe 238.204 Radial†	621.8	605.0	5159.7 ug/L	5159.7 ppb	17:36:09
2	K 766.490 Radial†	29989.7	27227.0	4951.9 ug/L	4951.9 ppb	17:35:49
2	Mg 279.077 IEC†	165.5	161.1	5350.0 ug/L	5350.0 ppb	17:36:09
2	Na 589.592 Radial†	32721.9	33756.8	9676.4 ug/L	9676.4 ppb	17:35:49
2	Sr 421.552†	78306.2	77640.7	495.66 ug/L	495.66 ppb	17:35:49
2	Sc 361.383	855400.2	855400.2	99.689 %		17:37:10
2	Y 371.029	710715.4	710715.4	97.671 %		17:37:10
2	Ag 328.068†	111443.6	111434.6	514.53 ug/L	514.53 ppb	17:37:10
2	As 188.979†	1172.7	1200.3	517.59 ug/L	517.59 ppb	17:37:30
2	B 249.677†	21995.1	22678.9	506.75 ug/L	506.75 ppb	17:37:10
2	Ba 233.527†	65387.7	65600.5	509.56 ug/L	509.56 ppb	17:37:10
2	Be 313.107†	1358094.3	1366810.1	517.58 ug/L	517.58 ppb	17:37:10
2	Cd 226.502†	46136.3	46482.0	511.22 ug/L	511.22 ppb	17:37:10
2	Co 228.616†	24800.2	24954.9	506.43 ug/L	506.43 ppb	17:37:30
2	Cr 267.716†	45754.7	45818.6	508.97 ug/L	508.97 ppb	17:37:10
2	Cu 324.752†	177366.8	171518.3	511.65 ug/L	511.65 ppb	17:37:10
2	Mn 257.610†	464392.0	465412.5	510.69 ug/L	510.69 ppb	17:37:10
2	Mo 202.031†	7341.1	7342.4	512.78 ug/L	512.78 ppb	17:37:30
2	Ni 231.604†	20523.0	20520.0	507.50 ug/L	507.50 ppb	17:37:30

2	P 214.914†	4452.7	4246.3	2429.4 ug/L	2429.4 ppb	17:37:30
2	Pb 220.353†	4166.1	4241.3	515.02 ug/L	515.02 ppb	17:37:30
2	S 181.975 Axial†	774.0	732.6	1018.5 ug/L	1018.5 ppb	17:37:30
2	Sb 206.836†	1518.1	1489.4	523.27 ug/L	523.27 ppb	17:37:30
2	Se 196.026†	780.3	814.8	530.26 ug/L	530.26 ppb	17:37:30
2	Si 251.611†	81273.1	81066.2	2559.9 ug/L	2559.9 ppb	17:37:10
2	Sn 189.927†	2934.7	2942.2	513.48 ug/L	513.48 ppb	17:37:30
2	Ti 334.940†	319169.0	321499.9	514.66 ug/L	514.66 ppb	17:37:10
2	Tl 190.801†	1624.4	1663.6	505.76 ug/L	505.76 ppb	17:37:30
2	U 409.014†	15288.0	17199.6	504.61 ug/L	504.61 ppb	17:37:10
2	V 292.402†	73417.5	75006.5	515.57 ug/L	515.57 ppb	17:37:10
2	Zn 213.857†	55168.9	54716.5	509.21 ug/L	509.21 ppb	17:37:10
2	SiO2†	80928.5	80722.2	5430.6 ug/L	5430.6 ppb	17:38:08
3	Sc Radial	5027.3	5027.3	98.2 %		17:36:14
3	Y RADIAL	5322.0	5322.0	96.67 %		17:36:14
3	Al 396.153Radial†	6385.2	6510.3	5182.0 ug/L	5182.0 ppb	17:36:14
3	Ca 317.933Radial†	3244.1	3285.3	5303.3 ug/L	5303.3 ppb	17:36:34
3	Fe 238.204 Radial†	618.7	618.7	5275.6 ug/L	5275.6 ppb	17:36:34
3	K 766.490 Radial†	29499.0	27536.9	5008.3 ug/L	5008.3 ppb	17:36:14
3	Mg 279.077 IEC†	161.6	161.6	5366.6 ug/L	5366.6 ppb	17:36:34
3	Na 589.592 Radial†	31956.2	33860.2	9706.1 ug/L	9706.1 ppb	17:36:14
3	Sr 421.552†	76563.2	77979.4	497.82 ug/L	497.82 ppb	17:36:14
3	Sc 361.383	857948.8	857948.8	99.986 %		17:37:38
3	Y 371.029	712746.3	712746.3	97.950 %		17:37:38
3	Ag 328.068†	111500.6	111159.5	513.31 ug/L	513.31 ppb	17:37:38
3	As 188.979†	1171.9	1196.0	515.77 ug/L	515.77 ppb	17:37:58
3	B 249.677†	22056.6	22674.8	506.64 ug/L	506.64 ppb	17:37:38
3	Ba 233.527†	65584.7	65602.7	509.58 ug/L	509.58 ppb	17:37:38
3	Be 313.107†	1359041.9	1363711.0	516.41 ug/L	516.41 ppb	17:37:38
3	Cd 226.502†	46368.9	46577.2	512.25 ug/L	512.25 ppb	17:37:38
3	Co 228.616†	24850.7	24931.5	505.95 ug/L	505.95 ppb	17:37:58
3	Cr 267.716†	45890.5	45818.1	508.97 ug/L	508.97 ppb	17:37:38
3	Cu 324.752†	177085.8	170708.8	509.25 ug/L	509.25 ppb	17:37:38
3	Mn 257.610†	465154.5	464791.3	510.02 ug/L	510.02 ppb	17:37:38
3	Mo 202.031†	7323.2	7302.6	510.02 ug/L	510.02 ppb	17:37:58
3	Ni 231.604†	20566.9	20502.8	507.07 ug/L	507.07 ppb	17:37:58
3	P 214.914†	4470.2	4250.5	2432.3 ug/L	2432.3 ppb	17:37:58
3	Pb 220.353†	4163.3	4226.1	513.17 ug/L	513.17 ppb	17:37:58
3	S 181.975 Axial†	785.9	742.1	1031.8 ug/L	1031.8 ppb	17:37:58
3	Sb 206.836†	1520.7	1487.4	522.50 ug/L	522.50 ppb	17:37:58
3	Se 196.026†	787.5	819.7	533.65 ug/L	533.65 ppb	17:37:58
3	Si 251.611†	81250.6	80801.6	2551.6 ug/L	2551.6 ppb	17:37:38
3	Sn 189.927†	2924.5	2923.2	510.20 ug/L	510.20 ppb	17:37:58
3	Ti 334.940†	319649.4	321029.3	513.93 ug/L	513.93 ppb	17:37:38
3	Tl 190.801†	1630.8	1665.1	506.23 ug/L	506.23 ppb	17:37:58
3	U 409.014†	15057.9	16924.0	496.48 ug/L	496.48 ppb	17:37:38
3	V 292.402†	73542.0	74912.2	514.86 ug/L	514.86 ppb	17:37:38
3	Zn 213.857†	55329.5	54712.8	509.17 ug/L	509.17 ppb	17:37:38
3	SiO2†	81001.5	80554.1	5419.4 ug/L	5419.4 ppb	17:38:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854123.5	99.540 %	0.5359			0.54%
Sc Radial	5109.3	99.8 %	1.41			1.42%
Y 371.029	709226.1	97.466 %	0.6123			0.63%
Y RADIAL	5407.1	98.21 %	1.347			1.37%
Ag 328.068†	111192.3	513.43 ug/L	1.041	513.43 ppb	1.041	0.20%
QC value within limits for Ag 328.068 Recovery = 102.69%						
Al 396.153Radial†	6513.8	5184.7 ug/L	41.33	5184.7 ppb	41.33	0.80%
QC value within limits for Al 396.153Radial Recovery = 103.69%						
As 188.979†	1197.4	516.35 ug/L	1.068	516.35 ppb	1.068	0.21%
QC value within limits for As 188.979 Recovery = 103.27%						
B 249.677†	22576.7	504.45 ug/L	3.897	504.45 ppb	3.897	0.77%
QC value within limits for B 249.677 Recovery = 100.89%						
Ba 233.527†	65586.6	509.45 ug/L	0.207	509.45 ppb	0.207	0.04%
QC value within limits for Ba 233.527 Recovery = 101.89%						
Be 313.107†	1362156.4	515.82 ug/L	2.116	515.82 ppb	2.116	0.41%
QC value within limits for Be 313.107 Recovery = 103.16%						
Ca 317.933Radial†	3235.7	5223.3 ug/L	72.20	5223.3 ppb	72.20	1.38%

QC value within limits for Ca 317.933 Radial Recovery = 104.47%

Cd 226.502†	46476.3	511.15 ug/L	1.140	511.15 ppb	1.140	0.22%
QC value within limits for Cd 226.502 Recovery = 102.23%						
Co 228.616†	24970.7	506.75 ug/L	0.999	506.75 ppb	0.999	0.20%
QC value within limits for Co 228.616 Recovery = 101.35%						
Cr 267.716†	45761.3	508.34 ug/L	1.100	508.34 ppb	1.100	0.22%
QC value within limits for Cr 267.716 Recovery = 101.67%						
Cu 324.752†	170828.7	509.60 ug/L	1.899	509.60 ppb	1.899	0.37%
QC value within limits for Cu 324.752 Recovery = 101.92%						
Fe 238.204 Radial†	611.1	5211.3 ug/L	58.99	5211.3 ppb	58.99	1.13%
QC value within limits for Fe 238.204 Radial Recovery = 104.23%						
K 766.490 Radial†	27423.4	4987.6 ug/L	31.08	4987.6 ppb	31.08	0.62%
QC value within limits for K 766.490 Radial Recovery = 99.75%						
Mg 279.077 IEC†	160.7	5335.9 ug/L	39.82	5335.9 ppb	39.82	0.75%
QC value within limits for Mg 279.077 IEC Recovery = 106.72%						
Mn 257.610†	464809.2	510.04 ug/L	0.649	510.04 ppb	0.649	0.13%
QC value within limits for Mn 257.610 Recovery = 102.01%						
Mo 202.031†	7330.9	511.99 ug/L	1.716	511.99 ppb	1.716	0.34%
QC value within limits for Mo 202.031 Recovery = 102.40%						
Na 589.592 Radial†	33864.3	9707.2 ug/L	31.44	9707.2 ppb	31.44	0.32%
QC value within limits for Na 589.592 Radial Recovery = 97.07%						
Ni 231.604†	20515.7	507.39 ug/L	0.280	507.39 ppb	0.280	0.06%
QC value within limits for Ni 231.604 Recovery = 101.48%						
P 214.914†	4246.7	2430.0 ug/L	2.05	2430.0 ppb	2.05	0.08%
QC value within limits for P 214.914 Recovery = 97.20%						
Pb 220.353†	4233.4	514.06 ug/L	0.928	514.06 ppb	0.928	0.18%
QC value within limits for Pb 220.353 Recovery = 102.81%						
S 181.975 Axial†	737.4	1025.3 ug/L	6.62	1025.3 ppb	6.62	0.65%
QC value within limits for S 181.975 Axial Recovery = 102.53%						
Sb 206.836†	1484.2	521.46 ug/L	2.512	521.46 ppb	2.512	0.48%
QC value within limits for Sb 206.836 Recovery = 104.29%						
Se 196.026†	817.1	531.82 ug/L	1.712	531.82 ppb	1.712	0.32%
QC value within limits for Se 196.026 Recovery = 106.36%						
Si 251.611†	80875.7	2553.9 ug/L	5.26	2553.9 ppb	5.26	0.21%
QC value within limits for Si 251.611 Recovery = 102.16%						
Sn 189.927†	2930.0	511.37 ug/L	1.835	511.37 ppb	1.835	0.36%
QC value within limits for Sn 189.927 Recovery = 102.27%						
Sr 421.552†	78031.7	498.16 ug/L	2.678	498.16 ppb	2.678	0.54%
QC value within limits for Sr 421.552 Recovery = 99.63%						
Ti 334.940†	320921.4	513.75 ug/L	1.017	513.75 ppb	1.017	0.20%
QC value within limits for Ti 334.940 Recovery = 102.75%						
Tl 190.801†	1660.9	504.94 ug/L	1.845	504.94 ppb	1.845	0.37%
QC value within limits for Tl 190.801 Recovery = 100.99%						
U 409.014†	16989.3	498.41 ug/L	5.492	498.41 ppb	5.492	1.10%
QC value within limits for U 409.014 Recovery = 99.68%						
V 292.402†	74753.7	513.83 ug/L	2.431	513.83 ppb	2.431	0.47%
QC value within limits for V 292.402 Recovery = 102.77%						
Zn 213.857†	54660.7	508.69 ug/L	0.876	508.69 ppb	0.876	0.17%
QC value within limits for Zn 213.857 Recovery = 101.74%						
SiO2†	81222.0	5464.4 ug/L	68.41	5464.4 ppb	68.41	1.25%
QC value within limits for SiO2 Recovery = 102.19%						

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 17:40:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5050.4	5050.4	98.6 %		17:42:15
1	Y RADIAL	5387.0	5387.0	97.85 %		17:42:15
1	Al 396.153Radial†	6.3	12.5	10.052 ug/L	10.052 ppb	17:42:15
1	Ca 317.933Radial†	14.5	-4.5	-7.2003 ug/L	-7.2003 ppb	17:42:35
1	Fe 238.204 Radial†	11.7	0.4	3.0254 ug/L	3.0254 ppb	17:42:35
1	K 766.490 Radial†	2689.2	215.3	39.205 ug/L	39.205 ppb	17:42:15
1	Mg 279.077 IEC†	3.9	0.9	30.276 ug/L	30.276 ppb	17:42:35
1	Na 589.592 Radial†	-1312.4	-21.9	-6.2708 ug/L	-6.2708 ppb	17:42:15
1	Sr 421.552†	7.6	-2.0	-0.0128 ug/L	-0.0128 ppb	17:42:15
1	Sc 361.383	904505.5	904505.5	105.41 %		17:43:32
1	Y 371.029	762654.1	762654.1	104.81 %		17:43:32
1	Ag 328.068†	381.5	4.9	0.0227 ug/L	0.0227 ppb	17:43:37
1	As 188.979†	-23.9	1.2	0.5297 ug/L	0.5297 ppb	17:43:57
1	B 249.677†	-387.4	247.6	5.5566 ug/L	5.5566 ppb	17:43:57
1	Ba 233.527†	-19.1	-9.6	-0.0725 ug/L	-0.0725 ppb	17:43:57
1	Be 313.107†	-4492.9	212.4	0.0805 ug/L	0.0805 ppb	17:43:37
1	Cd 226.502†	-182.1	28.9	0.3182 ug/L	0.3182 ppb	17:43:57
1	Co 228.616†	-73.5	7.5	0.1507 ug/L	0.1507 ppb	17:43:57
1	Cr 267.716†	70.9	-11.7	-0.1303 ug/L	-0.1303 ppb	17:43:57
1	Cu 324.752†	6453.8	-279.9	-0.8376 ug/L	-0.8376 ppb	17:43:37
1	Mn 257.610†	416.5	-34.7	-0.0390 ug/L	-0.0390 ppb	17:43:57
1	Mo 202.031†	17.5	-5.1	-0.3524 ug/L	-0.3524 ppb	17:43:57
1	Ni 231.604†	70.6	-0.0	-0.0009 ug/L	-0.0009 ppb	17:43:57
1	P 214.914†	231.8	-0.4	-0.0333 ug/L	-0.0333 ppb	17:43:57
1	Pb 220.353†	-58.1	7.1	0.8591 ug/L	0.8591 ppb	17:43:57
1	S 181.975 Axial†	58.2	11.4	15.802 ug/L	15.802 ppb	17:43:57
1	Sb 206.836†	37.1	1.8	0.6236 ug/L	0.6236 ppb	17:43:57
1	Se 196.026†	-30.8	2.9	1.8069 ug/L	1.8069 ppb	17:43:57
1	Si 251.611†	487.2	1.5	0.0525 ug/L	0.0525 ppb	17:43:57
1	Sn 189.927†	14.8	12.4	2.1503 ug/L	2.1503 ppb	17:43:57
1	Ti 334.940†	-1324.2	77.9	0.1192 ug/L	0.1192 ppb	17:43:37
1	Tl 190.801†	-29.4	6.2	1.8751 ug/L	1.8751 ppb	17:43:57
1	U 409.014†	-1789.8	166.0	4.8862 ug/L	4.8862 ppb	17:43:32
1	V 292.402†	-1317.8	109.6	0.7470 ug/L	0.7470 ppb	17:43:37
1	Zn 213.857†	644.9	-12.9	-0.1203 ug/L	-0.1203 ppb	17:43:57
1	SiO2†	487.3	3.2	0.2280 ug/L	0.2280 ppb	17:45:03
2	Sc Radial	4831.2	4831.2	94.3 %		17:42:40
2	Y RADIAL	5221.0	5221.0	94.83 %		17:42:40
2	Al 396.153Radial†	3.5	9.9	7.8761 ug/L	7.8761 ppb	17:42:40
2	Ca 317.933Radial†	13.2	-5.2	-8.3508 ug/L	-8.3508 ppb	17:43:00
2	Fe 238.204 Radial†	9.7	-1.3	-11.190 ug/L	-11.190 ppb	17:43:00
2	K 766.490 Radial†	2635.3	281.8	51.332 ug/L	51.332 ppb	17:42:40
2	Mg 279.077 IEC†	0.9	-2.1	-68.277 ug/L	-68.277 ppb	17:43:00
2	Na 589.592 Radial†	-1288.1	-56.5	-16.184 ug/L	-16.184 ppb	17:42:40
2	Sr 421.552†	31.9	24.0	0.1534 ug/L	0.1534 ppb	17:42:40
2	Sc 361.383	881522.3	881522.3	102.73 %		17:44:02
2	Y 371.029	746169.7	746169.7	102.54 %		17:44:02
2	Ag 328.068†	356.5	-10.1	-0.0483 ug/L	-0.0483 ppb	17:44:07
2	As 188.979†	-25.2	-0.6	-0.2438 ug/L	-0.2438 ppb	17:44:27
2	B 249.677†	-453.1	174.0	3.9068 ug/L	3.9068 ppb	17:44:27
2	Ba 233.527†	-23.8	-14.5	-0.1122 ug/L	-0.1122 ppb	17:44:27
2	Be 313.107†	-4462.2	131.1	0.0497 ug/L	0.0497 ppb	17:44:07
2	Cd 226.502†	-193.0	13.7	0.1524 ug/L	0.1524 ppb	17:44:27
2	Co 228.616†	-62.8	16.1	0.3278 ug/L	0.3278 ppb	17:44:27
2	Cr 267.716†	88.8	7.5	0.0833 ug/L	0.0833 ppb	17:44:27
2	Cu 324.752†	6361.8	-209.9	-0.6269 ug/L	-0.6269 ppb	17:44:07
2	Mn 257.610†	420.2	-20.8	-0.0211 ug/L	-0.0211 ppb	17:44:27
2	Mo 202.031†	26.6	4.2	0.2931 ug/L	0.2931 ppb	17:44:27
2	Ni 231.604†	70.2	1.3	0.0328 ug/L	0.0328 ppb	17:44:27

2	P 214.914†	223.8	-2.5	-1.3211 ug/L	-1.3211 ppb	17:44:27
2	Pb 220.353†	-55.6	8.1	0.9828 ug/L	0.9828 ppb	17:44:27
2	S 181.975 Axial†	45.7	0.6	0.8879 ug/L	0.8879 ppb	17:44:27
2	Sb 206.836†	40.4	5.9	2.0154 ug/L	2.0154 ppb	17:44:27
2	Se 196.026†	-24.2	8.5	5.3056 ug/L	5.3056 ppb	17:44:27
2	Si 251.611†	491.5	17.7	0.5582 ug/L	0.5582 ppb	17:44:27
2	Sn 189.927†	6.1	4.3	0.7396 ug/L	0.7396 ppb	17:44:27
2	Ti 334.940†	-1327.2	42.3	0.0719 ug/L	0.0719 ppb	17:44:07
2	Tl 190.801†	-19.8	14.8	4.4751 ug/L	4.4751 ppb	17:44:27
2	U 409.014†	-1899.3	15.1	0.4453 ug/L	0.4453 ppb	17:44:02
2	V 292.402†	-1337.9	57.4	0.3946 ug/L	0.3946 ppb	17:44:07
2	Zn 213.857†	637.6	-4.0	-0.0357 ug/L	-0.0357 ppb	17:44:27
2	SiO2†	542.4	68.9	4.6424 ug/L	4.6424 ppb	17:45:08
3	Sc Radial	5248.9	5248.9	102 %		17:43:05
3	Y RADIAL	5624.0	5624.0	102.2 %		17:43:05
3	Al 396.153Radial†	-3.8	2.5	2.0017 ug/L	2.0017 ppb	17:43:05
3	Ca 317.933Radial†	18.8	-0.8	-1.3525 ug/L	-1.3525 ppb	17:43:25
3	Fe 238.204 Radial†	10.0	-1.8	-15.108 ug/L	-15.108 ppb	17:43:25
3	K 766.490 Radial†	2706.3	128.8	23.451 ug/L	23.451 ppb	17:43:05
3	Mg 279.077 IEC†	1.5	-1.6	-51.823 ug/L	-51.823 ppb	17:43:25
3	Na 589.592 Radial†	-1276.1	63.9	18.308 ug/L	18.308 ppb	17:43:05
3	Sr 421.552†	6.4	-3.5	-0.0226 ug/L	-0.0226 ppb	17:43:05
3	Sc 361.383	887100.9	887100.9	103.38 %		17:44:32
3	Y 371.029	750211.5	750211.5	103.10 %		17:44:32
3	Ag 328.068†	345.2	-23.2	-0.1088 ug/L	-0.1088 ppb	17:44:37
3	As 188.979†	-21.4	3.3	1.3974 ug/L	1.3974 ppb	17:44:57
3	B 249.677†	-412.0	216.6	4.8645 ug/L	4.8645 ppb	17:44:57
3	Ba 233.527†	-20.9	-11.7	-0.0908 ug/L	-0.0908 ppb	17:44:57
3	Be 313.107†	-4514.0	108.4	0.0413 ug/L	0.0413 ppb	17:44:37
3	Cd 226.502†	-194.6	13.4	0.1480 ug/L	0.1480 ppb	17:44:57
3	Co 228.616†	-77.9	1.9	0.0380 ug/L	0.0380 ppb	17:44:57
3	Cr 267.716†	83.8	-2.1	0.0245 ug/L	0.0245 ppb	17:44:57
3	Cu 324.752†	6467.6	-146.5	-0.4361 ug/L	-0.4361 ppb	17:44:37
3	Mn 257.610†	418.0	-25.5	-0.0273 ug/L	-0.0273 ppb	17:44:57
3	Mo 202.031†	17.1	-5.1	-0.3550 ug/L	-0.3550 ppb	17:44:57
3	Ni 231.604†	57.3	-11.6	-0.2871 ug/L	-0.2871 ppb	17:44:57
3	P 214.914†	231.8	3.9	2.4672 ug/L	2.4672 ppb	17:44:57
3	Pb 220.353†	-57.2	6.8	0.8276 ug/L	0.8276 ppb	17:44:57
3	S 181.975 Axial†	48.5	3.1	4.2674 ug/L	4.2674 ppb	17:44:57
3	Sb 206.836†	40.0	5.3	1.7777 ug/L	1.7777 ppb	17:44:57
3	Se 196.026†	-28.5	4.5	2.7927 ug/L	2.7927 ppb	17:44:57
3	Si 251.611†	481.3	4.9	0.1590 ug/L	0.1590 ppb	17:44:57
3	Sn 189.927†	1.7	-0.0	-0.0038 ug/L	-0.0038 ppb	17:44:57
3	Ti 334.940†	-1289.3	87.0	0.1447 ug/L	0.1447 ppb	17:44:37
3	Tl 190.801†	-19.4	15.3	4.6263 ug/L	4.6263 ppb	17:44:57
3	U 409.014†	-2034.3	-103.9	-3.0568 ug/L	-3.0568 ppb	17:44:32
3	V 292.402†	-1407.4	-1.6	-0.0205 ug/L	-0.0205 ppb	17:44:37
3	Zn 213.857†	637.9	-7.7	-0.0682 ug/L	-0.0682 ppb	17:44:57
3	SiO2†	509.5	33.8	2.2893 ug/L	2.2893 ppb	17:45:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	891042.9	103.84 %	1.397			1.35%
Sc Radial	5043.5	98.5 %	4.08			4.14%
Y 371.029	753011.8	103.48 %	1.181			1.14%
Y RADIAL	5410.7	98.28 %	3.679			3.74%
Ag 328.068†	-9.5	-0.0448 ug/L	0.06581	-0.0448 ppb	0.06581	146.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.3	6.6431 ug/L	4.16422	6.6431 ppb	4.16422	62.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.3	0.5611 ug/L	0.82104	0.5611 ppb	0.82104	146.32%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	212.7	4.7760 ug/L	0.82848	4.7760 ppb	0.82848	17.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-11.9	-0.0918 ug/L	0.01986	-0.0918 ppb	0.01986	21.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	150.7	0.0572 ug/L	0.02068	0.0572 ppb	0.02068	36.18%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.5	-5.6346 ug/L	3.75269	-5.6346 ppb	3.75269	66.60%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	18.7	0.2062 ug/L	0.09703	0.2062 ppb	0.09703	47.06%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.5	0.1722 ug/L	0.14611	0.1722 ppb	0.14611	84.86%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-0.7	-0.0075 ug/L	0.11031	-0.0075 ppb	0.11031	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-212.1	-0.6335 ug/L	0.20082	-0.6335 ppb	0.20082	31.70%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.9	-7.7575 ug/L	9.54148	-7.7575 ppb	9.54148	123.00%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	208.6	37.996 ug/L	13.9798	37.996 ppb	13.9798	36.79%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.9	-29.941 ug/L	52.7948	-29.941 ppb	52.7948	176.33%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-27.0	-0.0291 ug/L	0.00906	-0.0291 ppb	0.00906	31.09%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-2.0	-0.1381 ug/L	0.37343	-0.1381 ppb	0.37343	270.40%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-4.8	-1.3822 ug/L	17.75775	-1.3822 ppb	17.75775	>999.9%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.4	-0.0851 ug/L	0.17577	-0.0851 ppb	0.17577	206.59%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	0.3	0.3709 ug/L	1.92623	0.3709 ppb	1.92623	519.28%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	7.3	0.8898 ug/L	0.08204	0.8898 ppb	0.08204	9.22%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	5.0	6.9857 ug/L	7.81975	6.9857 ppb	7.81975	111.94%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.3	1.4722 ug/L	0.74448	1.4722 ppb	0.74448	50.57%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.3	3.3017 ug/L	1.80405	3.3017 ppb	1.80405	54.64%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	8.1	0.2566 ug/L	0.26658	0.2566 ppb	0.26658	103.90%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.5	0.9620 ug/L	1.09412	0.9620 ppb	1.09412	113.73%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	6.2	0.0393 ug/L	0.09889	0.0393 ppb	0.09889	251.53%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	69.1	0.1119 ug/L	0.03694	0.1119 ppb	0.03694	33.00%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	12.1	3.6589 ug/L	1.54662	3.6589 ppb	1.54662	42.27%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	25.7	0.7582 ug/L	3.98074	0.7582 ppb	3.98074	524.99%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	55.1	0.3737 ug/L	0.38417	0.3737 ppb	0.38417	102.81%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-8.2	-0.0747 ug/L	0.04269	-0.0747 ppb	0.04269	57.11%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	35.3	2.3866 ug/L	2.20882	2.3866 ppb	2.20882	92.55%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 25

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/12/2010 18:21:18

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	4768.6	4768.6	93.1 %		18:23:10
1	Y RADIAL	5007.7	5007.7	90.96 %		18:23:10
1	Al 396.153Radial†	6729.3	7232.7	5760.5 ug/L	5760.5 ppb	18:23:10
1	Ca 317.933Radial†	3228.4	3447.7	5565.5 ug/L	5565.5 ppb	18:23:30
1	Fe 238.204 Radial†	621.6	655.9	5592.3 ug/L	5592.3 ppb	18:23:30
1	K 766.490 Radial†	30595.7	30344.9	5519.1 ug/L	5519.1 ppb	18:23:10
1	Mg 279.077 IEC†	160.8	169.7	5633.7 ug/L	5633.7 ppb	18:23:30
1	Na 589.592 Radial†	34080.2	37907.3	10866 ug/L	10866 ppb	18:23:10
1	Sr 421.552†	81045.8	87024.6	555.57 ug/L	555.57 ppb	18:23:10
1	Sc 361.383	882790.8	882790.8	102.88 %		18:24:27
1	Y 371.029	734185.3	734185.3	100.90 %		18:24:27
1	Ag 328.068†	111792.2	108304.8	500.25 ug/L	500.25 ppb	18:24:32
1	As 188.979†	1166.8	1158.1	499.43 ug/L	499.43 ppb	18:24:52
1	B 249.677†	22027.9	22026.2	492.06 ug/L	492.06 ppb	18:24:32
1	Ba 233.527†	65381.3	63559.1	493.73 ug/L	493.73 ppb	18:24:32
1	Be 313.107†	1373890.0	1339894.0	507.35 ug/L	507.35 ppb	18:24:27
1	Cd 226.502†	46078.3	44989.7	494.75 ug/L	494.75 ppb	18:24:32
1	Co 228.616†	25095.4	24469.9	496.60 ug/L	496.60 ppb	18:24:32
1	Cr 267.716†	45781.0	44420.1	493.44 ug/L	493.44 ppb	18:24:32
1	Cu 324.752†	175567.2	164248.7	490.00 ug/L	490.00 ppb	18:24:32
1	Mn 257.610†	469401.1	455827.5	500.21 ug/L	500.21 ppb	18:24:27
1	Mo 202.031†	7328.2	7101.4	496.01 ug/L	496.01 ppb	18:24:52
1	Ni 231.604†	20748.2	20100.2	497.12 ug/L	497.12 ppb	18:24:32
1	P 214.914†	4459.3	4114.1	2354.8 ug/L	2354.8 ppb	18:24:52
1	Pb 220.353†	4156.0	4101.8	498.22 ug/L	498.22 ppb	18:24:52
1	S 181.975 Axial†	783.1	717.3	997.09 ug/L	997.09 ppb	18:24:52
1	Sb 206.836†	1518.5	1442.6	506.82 ug/L	506.82 ppb	18:24:52
1	Se 196.026†	794.0	803.8	524.60 ug/L	524.60 ppb	18:24:52
1	Si 251.611†	81626.9	78880.6	2491.0 ug/L	2491.0 ppb	18:24:32
1	Sn 189.927†	2922.2	2838.7	495.53 ug/L	495.53 ppb	18:24:52
1	Ti 334.940†	310944.2	303571.5	486.00 ug/L	486.00 ppb	18:24:32
1	Tl 190.801†	1642.2	1630.3	495.51 ug/L	495.51 ppb	18:24:52
1	U 409.014†	15484.6	16914.9	496.22 ug/L	496.22 ppb	18:24:32
1	V 292.402†	73462.0	72764.7	500.08 ug/L	500.08 ppb	18:24:32
1	Zn 213.857†	55302.2	53129.0	494.36 ug/L	494.36 ppb	18:24:32
1	SiO2†	80532.9	77818.9	5235.3 ug/L	5235.3 ppb	18:26:00
2	Sc Radial	5542.6	5542.6	108 %		18:23:35
2	Y RADIAL	5868.6	5868.6	106.6 %		18:23:35
2	Al 396.153Radial†	6375.7	5896.8	4691.9 ug/L	4691.9 ppb	18:23:35
2	Ca 317.933Radial†	3185.4	2923.8	4719.8 ug/L	4719.8 ppb	18:23:55
2	Fe 238.204 Radial†	616.4	558.0	4759.3 ug/L	4759.3 ppb	18:23:55
2	K 766.490 Radial†	29373.9	24627.4	4479.0 ug/L	4479.0 ppb	18:23:35
2	Mg 279.077 IEC†	161.8	146.5	4864.0 ug/L	4864.0 ppb	18:23:55
2	Na 589.592 Radial†	32380.2	31225.4	8950.8 ug/L	8950.8 ppb	18:23:35
2	Sr 421.552†	77000.8	71132.4	454.11 ug/L	454.11 ppb	18:23:35
2	Sc 361.383	874196.3	874196.3	101.88 %		18:24:58
2	Y 371.029	728105.8	728105.8	100.06 %		18:24:58
2	Ag 328.068†	112427.9	109997.1	507.77 ug/L	507.77 ppb	18:25:03
2	As 188.979†	1168.1	1170.5	504.60 ug/L	504.60 ppb	18:25:23
2	B 249.677†	22171.0	22377.2	500.05 ug/L	500.05 ppb	18:25:03
2	Ba 233.527†	65728.8	64525.0	501.20 ug/L	501.20 ppb	18:25:03
2	Be 313.107†	1360144.6	1339531.1	507.23 ug/L	507.23 ppb	18:24:58
2	Cd 226.502†	46413.1	45758.6	503.30 ug/L	503.30 ppb	18:25:03
2	Co 228.616†	25211.0	24823.2	503.77 ug/L	503.77 ppb	18:25:03
2	Cr 267.716†	46096.2	45167.0	501.72 ug/L	501.72 ppb	18:25:03
2	Cu 324.752†	176546.1	166887.3	497.81 ug/L	497.81 ppb	18:25:03
2	Mn 257.610†	465073.5	456065.3	500.42 ug/L	500.42 ppb	18:24:58
2	Mo 202.031†	7299.6	7143.4	498.86 ug/L	498.86 ppb	18:25:23
2	Ni 231.604†	20824.2	20373.1	503.87 ug/L	503.87 ppb	18:25:03

2	P 214.914†	4425.0	4123.1	2358.7 ug/L	2358.7 ppb	18:25:23
2	Pb 220.353†	4112.4	4098.7	497.66 ug/L	497.66 ppb	18:25:23
2	S 181.975 Axial†	777.9	719.7	1000.7 ug/L	1000.7 ppb	18:25:23
2	Sb 206.836†	1507.7	1446.5	508.25 ug/L	508.25 ppb	18:25:23
2	Se 196.026†	779.4	797.0	517.80 ug/L	517.80 ppb	18:25:23
2	Si 251.611†	82054.3	80080.1	2528.9 ug/L	2528.9 ppb	18:25:03
2	Sn 189.927†	2907.2	2851.9	497.67 ug/L	497.67 ppb	18:25:23
2	Ti 334.940†	312695.9	308262.4	493.44 ug/L	493.44 ppb	18:25:03
2	Tl 190.801†	1640.7	1644.5	499.81 ug/L	499.81 ppb	18:25:23
2	U 409.014†	15887.9	17458.7	512.30 ug/L	512.30 ppb	18:25:03
2	V 292.402†	73950.8	73946.5	508.27 ug/L	508.27 ppb	18:25:03
2	Zn 213.857†	55566.1	53916.5	501.78 ug/L	501.78 ppb	18:25:03
2	SiO2†	79894.2	77961.5	5244.8 ug/L	5244.8 ppb	18:26:05
3	Sc Radial	5172.9	5172.9	101 %		18:24:00
3	Y RADIAL	5511.8	5511.8	100.1 %		18:24:00
3	Al 396.153Radial†	6475.8	6417.0	5108.0 ug/L	5108.0 ppb	18:24:00
3	Ca 317.933Radial†	3260.0	3208.1	5178.6 ug/L	5178.6 ppb	18:24:20
3	Fe 238.204 Radial†	619.7	602.0	5133.5 ug/L	5133.5 ppb	18:24:20
3	K 766.490 Radial†	29972.2	27159.6	4939.6 ug/L	4939.6 ppb	18:24:00
3	Mg 279.077 IEC†	162.1	157.4	5227.0 ug/L	5227.0 ppb	18:24:20
3	Na 589.592 Radial†	32929.9	33908.0	9719.8 ug/L	9719.8 ppb	18:24:00
3	Sr 421.552†	78112.8	77318.4	493.60 ug/L	493.60 ppb	18:24:00
3	Sc 361.383	870747.2	870747.2	101.48 %		18:25:29
3	Y 371.029	724417.0	724417.0	99.554 %		18:25:29
3	Ag 328.068†	112368.6	110375.7	509.64 ug/L	509.64 ppb	18:25:34
3	As 188.979†	1160.1	1167.2	503.28 ug/L	503.28 ppb	18:25:54
3	B 249.677†	22323.9	22614.1	505.30 ug/L	505.30 ppb	18:25:34
3	Ba 233.527†	65968.5	65016.8	505.03 ug/L	505.03 ppb	18:25:34
3	Be 313.107†	1354742.6	1339496.0	507.22 ug/L	507.22 ppb	18:25:29
3	Cd 226.502†	46596.3	46119.6	507.23 ug/L	507.23 ppb	18:25:34
3	Co 228.616†	25242.5	24952.2	506.38 ug/L	506.38 ppb	18:25:34
3	Cr 267.716†	46091.6	45341.7	503.67 ug/L	503.67 ppb	18:25:34
3	Cu 324.752†	176638.2	167664.4	500.16 ug/L	500.16 ppb	18:25:34
3	Mn 257.610†	463524.0	456346.6	500.75 ug/L	500.75 ppb	18:25:29
3	Mo 202.031†	7261.8	7134.5	498.27 ug/L	498.27 ppb	18:25:54
3	Ni 231.604†	20823.9	20453.7	505.86 ug/L	505.86 ppb	18:25:34
3	P 214.914†	4418.7	4134.1	2364.6 ug/L	2364.6 ppb	18:25:54
3	Pb 220.353†	4104.9	4107.4	498.77 ug/L	498.77 ppb	18:25:54
3	S 181.975 Axial†	774.6	719.4	1000.2 ug/L	1000.2 ppb	18:25:54
3	Sb 206.836†	1513.7	1458.2	512.25 ug/L	512.25 ppb	18:25:54
3	Se 196.026†	773.0	793.8	516.91 ug/L	516.91 ppb	18:25:54
3	Si 251.611†	82210.2	80552.8	2543.9 ug/L	2543.9 ppb	18:25:34
3	Sn 189.927†	2911.9	2867.8	500.53 ug/L	500.53 ppb	18:25:54
3	Ti 334.940†	313068.0	309844.8	496.01 ug/L	496.01 ppb	18:25:34
3	Tl 190.801†	1617.7	1628.2	494.91 ug/L	494.91 ppb	18:25:54
3	U 409.014†	15628.1	17264.5	506.54 ug/L	506.54 ppb	18:25:34
3	V 292.402†	73870.7	74155.1	509.61 ug/L	509.61 ppb	18:25:34
3	Zn 213.857†	55663.4	54228.5	504.66 ug/L	504.66 ppb	18:25:34
3	SiO2†	80329.8	78701.4	5294.7 ug/L	5294.7 ppb	18:26:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	875911.4	102.08 %	0.723			0.71%
Sc Radial	5161.4	101 %	7.6			7.50%
Y 371.029	728902.7	100.17 %	0.678			0.68%
Y RADIAL	5462.7	99.22 %	7.857			7.92%
Ag 328.068†	109559.2	505.89 ug/L	4.971	505.89 ppb	4.971	0.98%
QC value within limits for Ag 328.068 Recovery = 101.18%						
Al 396.153Radial†	6515.5	5186.8 ug/L	538.62	5186.8 ppb	538.62	10.38%
QC value within limits for Al 396.153Radial Recovery = 103.74%						
As 188.979†	1165.3	502.43 ug/L	2.689	502.43 ppb	2.689	0.54%
QC value within limits for As 188.979 Recovery = 100.49%						
B 249.677†	22339.1	499.14 ug/L	6.668	499.14 ppb	6.668	1.34%
QC value within limits for B 249.677 Recovery = 99.83%						
Ba 233.527†	64367.0	499.98 ug/L	5.748	499.98 ppb	5.748	1.15%
QC value within limits for Ba 233.527 Recovery = 100.00%						
Be 313.107†	1339640.4	507.26 ug/L	0.072	507.26 ppb	0.072	0.01%
QC value within limits for Be 313.107 Recovery = 101.45%						
Ca 317.933Radial†	3193.2	5154.6 ug/L	423.34	5154.6 ppb	423.34	8.21%

QC value within limits for Ca 317.933 Radial Recovery = 103.09%							
Cd 226.502†	45622.6	501.76 ug/L	6.383	501.76 ppb	6.383	1.27%	
QC value within limits for Cd 226.502 Recovery = 100.35%							
Co 228.616†	24748.5	502.25 ug/L	5.064	502.25 ppb	5.064	1.01%	
QC value within limits for Co 228.616 Recovery = 100.45%							
Cr 267.716†	44976.2	499.61 ug/L	5.429	499.61 ppb	5.429	1.09%	
QC value within limits for Cr 267.716 Recovery = 99.92%							
Cu 324.752†	166266.8	495.99 ug/L	5.320	495.99 ppb	5.320	1.07%	
QC value within limits for Cu 324.752 Recovery = 99.20%							
Fe 238.204 Radial†	605.3	5161.7 ug/L	417.21	5161.7 ppb	417.21	8.08%	
QC value within limits for Fe 238.204 Radial Recovery = 103.23%							
K 766.490 Radial†	27377.3	4979.2 ug/L	521.22	4979.2 ppb	521.22	10.47%	
QC value within limits for K 766.490 Radial Recovery = 99.58%							
Mg 279.077 IEC†	157.9	5241.6 ug/L	385.07	5241.6 ppb	385.07	7.35%	
QC value within limits for Mg 279.077 IEC Recovery = 104.83%							
Mn 257.610†	456079.8	500.46 ug/L	0.273	500.46 ppb	0.273	0.05%	
QC value within limits for Mn 257.610 Recovery = 100.09%							
Mo 202.031†	7126.4	497.71 ug/L	1.507	497.71 ppb	1.507	0.30%	
QC value within limits for Mo 202.031 Recovery = 99.54%							
Na 589.592 Radial†	34346.9	9845.6 ug/L	963.86	9845.6 ppb	963.86	9.79%	
QC value within limits for Na 589.592 Radial Recovery = 98.46%							
Ni 231.604†	20309.0	502.28 ug/L	4.582	502.28 ppb	4.582	0.91%	
QC value within limits for Ni 231.604 Recovery = 100.46%							
P 214.914†	4123.8	2359.4 ug/L	4.94	2359.4 ppb	4.94	0.21%	
QC value within limits for P 214.914 Recovery = 94.38%							
Pb 220.353†	4102.6	498.22 ug/L	0.556	498.22 ppb	0.556	0.11%	
QC value within limits for Pb 220.353 Recovery = 99.64%							
S 181.975 Axial†	718.8	999.34 ug/L	1.960	999.34 ppb	1.960	0.20%	
QC value within limits for S 181.975 Axial Recovery = 99.93%							
Sb 206.836†	1449.1	509.11 ug/L	2.817	509.11 ppb	2.817	0.55%	
QC value within limits for Sb 206.836 Recovery = 101.82%							
Se 196.026†	798.2	519.77 ug/L	4.204	519.77 ppb	4.204	0.81%	
QC value within limits for Se 196.026 Recovery = 103.95%							
Si 251.611†	79837.8	2521.2 ug/L	27.27	2521.2 ppb	27.27	1.08%	
QC value within limits for Si 251.611 Recovery = 100.85%							
Sn 189.927†	2852.8	497.91 ug/L	2.507	497.91 ppb	2.507	0.50%	
QC value within limits for Sn 189.927 Recovery = 99.58%							
Sr 421.552†	78491.8	501.09 ug/L	51.142	501.09 ppb	51.142	10.21%	
QC value within limits for Sr 421.552 Recovery = 100.22%							
Ti 334.940†	307226.2	491.82 ug/L	5.203	491.82 ppb	5.203	1.06%	
QC value within limits for Ti 334.940 Recovery = 98.36%							
Tl 190.801†	1634.4	496.74 ug/L	2.672	496.74 ppb	2.672	0.54%	
QC value within limits for Tl 190.801 Recovery = 99.35%							
U 409.014†	17212.7	505.02 ug/L	8.150	505.02 ppb	8.150	1.61%	
QC value within limits for U 409.014 Recovery = 101.00%							
V 292.402†	73622.1	505.99 ug/L	5.160	505.99 ppb	5.160	1.02%	
QC value within limits for V 292.402 Recovery = 101.20%							
Zn 213.857†	53758.0	500.27 ug/L	5.313	500.27 ppb	5.313	1.06%	
QC value within limits for Zn 213.857 Recovery = 100.05%							
SiO2†	78160.6	5258.3 ug/L	31.93	5258.3 ppb	31.93	0.61%	
QC value within limits for SiO2 Recovery = 98.33%							
All analyte(s) passed QC.							

Sequence No.: 26

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 18:28:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5618.4	5618.4	110 %		18:30:11
1	Y RADIAL	5990.5	5990.5	108.8 %		18:30:11
1	Al 396.153Radial†	-5.6	1.1	0.8872 ug/L	0.8872 ppb	18:30:11
1	Ca 317.933Radial†	25.8	4.3	6.8835 ug/L	6.8835 ppb	18:30:31
1	Fe 238.204 Radial†	11.4	-1.1	-9.6838 ug/L	-9.6838 ppb	18:30:31
1	K 766.490 Radial†	2756.8	1.2	0.1996 ug/L	0.1996 ppb	18:30:11
1	Mg 279.077 IEC†	2.7	-0.6	-18.487 ug/L	-18.487 ppb	18:30:31
1	Na 589.592 Radial†	-1350.5	77.9	22.342 ug/L	22.342 ppb	18:30:11
1	Sr 421.552†	0.4	-9.4	-0.0602 ug/L	-0.0602 ppb	18:30:11
1	Sc 361.383	863617.4	863617.4	100.65 %		18:31:28
1	Y 371.029	731839.5	731839.5	100.57 %		18:31:28
1	Ag 328.068†	304.5	-54.6	-0.2537 ug/L	-0.2537 ppb	18:31:28
1	As 188.979†	-23.9	0.2	0.0721 ug/L	0.0721 ppb	18:31:48
1	B 249.677†	-299.0	318.1	7.1401 ug/L	7.1401 ppb	18:31:48
1	Ba 233.527†	-8.2	0.4	0.0028 ug/L	0.0028 ppb	18:31:48
1	Be 313.107†	-4466.4	37.0	0.0139 ug/L	0.0139 ppb	18:31:28
1	Cd 226.502†	-180.2	22.6	0.2494 ug/L	0.2494 ppb	18:31:48
1	Co 228.616†	-69.7	8.0	0.1618 ug/L	0.1618 ppb	18:31:48
1	Cr 267.716†	88.3	8.8	0.0975 ug/L	0.0975 ppb	18:31:48
1	Cu 324.752†	6448.7	4.9	0.0143 ug/L	0.0143 ppb	18:31:28
1	Mn 257.610†	463.2	30.4	0.0332 ug/L	0.0332 ppb	18:31:48
1	Mo 202.031†	19.9	-1.8	-0.1274 ug/L	-0.1274 ppb	18:31:48
1	Ni 231.604†	64.3	-3.2	-0.0787 ug/L	-0.0787 ppb	18:31:48
1	P 214.914†	223.9	2.2	1.3354 ug/L	1.3354 ppb	18:31:48
1	Pb 220.353†	-59.5	3.1	0.3789 ug/L	0.3789 ppb	18:31:48
1	S 181.975 Axial†	50.3	6.1	8.5268 ug/L	8.5268 ppb	18:31:48
1	Sb 206.836†	38.0	4.3	1.5018 ug/L	1.5018 ppb	18:31:48
1	Se 196.026†	-32.8	-0.6	-0.3939 ug/L	-0.3939 ppb	18:31:48
1	Si 251.611†	760.9	295.4	9.3528 ug/L	9.3528 ppb	18:31:48
1	Sn 189.927†	13.1	11.3	1.9722 ug/L	1.9722 ppb	18:31:48
1	Ti 334.940†	-1348.2	-5.4	-0.0060 ug/L	-0.0060 ppb	18:31:28
1	Tl 190.801†	-27.1	7.2	2.1616 ug/L	2.1616 ppb	18:31:48
1	U 409.014†	-1888.8	-12.8	-0.3748 ug/L	-0.3748 ppb	18:31:28
1	V 292.402†	-1388.8	-20.2	-0.1384 ug/L	-0.1384 ppb	18:31:28
1	Zn 213.857†	662.2	33.3	0.3139 ug/L	0.3139 ppb	18:31:48
1	SiO2†	649.6	186.4	12.578 ug/L	12.578 ppb	18:32:44
2	Sc Radial	5113.3	5113.3	99.9 %		18:30:36
2	Y RADIAL	5452.1	5452.1	99.03 %		18:30:36
2	Al 396.153Radial†	-11.1	-4.9	-3.9088 ug/L	-3.9088 ppb	18:30:36
2	Ca 317.933Radial†	12.5	-6.7	-10.789 ug/L	-10.789 ppb	18:30:56
2	Fe 238.204 Radial†	10.1	-1.4	-12.233 ug/L	-12.233 ppb	18:30:56
2	K 766.490 Radial†	2809.7	302.4	55.071 ug/L	55.071 ppb	18:30:36
2	Mg 279.077 IEC†	0.3	-2.7	-90.891 ug/L	-90.891 ppb	18:30:56
2	Na 589.592 Radial†	-1325.3	-18.4	-5.2767 ug/L	-5.2767 ppb	18:30:36
2	Sr 421.552†	24.6	14.9	0.0950 ug/L	0.0950 ppb	18:30:36
2	Sc 361.383	854133.0	854133.0	99.541 %		18:31:53
2	Y 371.029	723900.7	723900.7	99.483 %		18:31:53
2	Ag 328.068†	249.2	-106.7	-0.4924 ug/L	-0.4924 ppb	18:31:53
2	As 188.979†	-30.2	-6.5	-2.7595 ug/L	-2.7595 ppb	18:32:13
2	B 249.677†	-363.8	249.7	5.6057 ug/L	5.6057 ppb	18:32:13
2	Ba 233.527†	-17.4	-8.9	-0.0698 ug/L	-0.0698 ppb	18:32:13
2	Be 313.107†	-4414.6	39.7	0.0152 ug/L	0.0152 ppb	18:31:53
2	Cd 226.502†	-174.7	26.2	0.2885 ug/L	0.2885 ppb	18:32:13
2	Co 228.616†	-69.4	7.5	0.1521 ug/L	0.1521 ppb	18:32:13
2	Cr 267.716†	68.4	-10.2	-0.1132 ug/L	-0.1132 ppb	18:32:13
2	Cu 324.752†	6490.6	118.1	0.3530 ug/L	0.3530 ppb	18:31:53
2	Mn 257.610†	453.0	25.2	0.0302 ug/L	0.0302 ppb	18:32:13
2	Mo 202.031†	18.2	-3.4	-0.2371 ug/L	-0.2371 ppb	18:32:13
2	Ni 231.604†	56.9	-9.9	-0.2448 ug/L	-0.2448 ppb	18:32:13

2	P 214.914†	226.2	7.0	4.1172 ug/L	4.1172 ppb	18:32:13
2	Pb 220.353†	-59.9	2.0	0.2401 ug/L	0.2401 ppb	18:32:13
2	S 181.975 Axial†	44.0	0.4	0.5045 ug/L	0.5045 ppb	18:32:13
2	Sb 206.836†	44.5	11.2	3.8188 ug/L	3.8188 ppb	18:32:13
2	Se 196.026†	-27.4	4.5	2.7777 ug/L	2.7777 ppb	18:32:13
2	Si 251.611†	683.5	226.0	7.1561 ug/L	7.1561 ppb	18:32:13
2	Sn 189.927†	3.9	2.3	0.3972 ug/L	0.3972 ppb	18:32:13
2	Ti 334.940†	-1265.2	63.1	0.1080 ug/L	0.1080 ppb	18:31:53
2	Tl 190.801†	-29.7	4.3	1.2914 ug/L	1.2914 ppb	18:32:13
2	U 409.014†	-1926.7	-71.7	-2.1093 ug/L	-2.1093 ppb	18:31:53
2	V 292.402†	-1385.4	-32.1	-0.2248 ug/L	-0.2248 ppb	18:31:53
2	Zn 213.857†	657.5	35.9	0.3389 ug/L	0.3389 ppb	18:32:13
2	SiO2†	679.1	223.2	15.060 ug/L	15.060 ppb	18:32:49
3	Sc Radial	4419.6	4419.6	86.3 %		18:31:01
3	Y RADIAL	4741.8	4741.8	86.13 %		18:31:01
3	Al 396.153Radial†	-15.9	-12.3	-9.8133 ug/L	-9.8133 ppb	18:31:01
3	Ca 317.933Radial†	21.7	5.9	9.5907 ug/L	9.5907 ppb	18:31:21
3	Fe 238.204 Radial†	10.5	0.7	5.6481 ug/L	5.6481 ppb	18:31:21
3	K 766.490 Radial†	2807.7	741.7	135.09 ug/L	135.09 ppb	18:31:01
3	Mg 279.077 IEC†	3.5	1.0	32.188 ug/L	32.188 ppb	18:31:21
3	Na 589.592 Radial†	-1317.8	-218.1	-62.505 ug/L	-62.505 ppb	18:31:01
3	Sr 421.552†	18.5	11.7	0.0743 ug/L	0.0743 ppb	18:31:01
3	Sc 361.383	867678.5	867678.5	101.12 %		18:32:18
3	Y 371.029	734200.3	734200.3	100.90 %		18:32:18
3	Ag 328.068†	383.9	22.5	0.1073 ug/L	0.1073 ppb	18:32:18
3	As 188.979†	-21.3	2.9	1.2442 ug/L	1.2442 ppb	18:32:39
3	B 249.677†	-369.2	250.0	5.6101 ug/L	5.6101 ppb	18:32:39
3	Ba 233.527†	-9.5	-0.8	-0.0064 ug/L	-0.0064 ppb	18:32:39
3	Be 313.107†	-4467.7	56.4	0.0213 ug/L	0.0213 ppb	18:32:18
3	Cd 226.502†	-177.4	26.2	0.2866 ug/L	0.2866 ppb	18:32:39
3	Co 228.616†	-78.4	-0.3	-0.0059 ug/L	-0.0059 ppb	18:32:39
3	Cr 267.716†	98.6	18.5	0.2071 ug/L	0.2071 ppb	18:32:39
3	Cu 324.752†	6442.2	-31.6	-0.0918 ug/L	-0.0918 ppb	18:32:18
3	Mn 257.610†	443.7	9.0	0.0091 ug/L	0.0091 ppb	18:32:39
3	Mo 202.031†	24.1	2.2	0.1563 ug/L	0.1563 ppb	18:32:39
3	Ni 231.604†	70.1	2.3	0.0574 ug/L	0.0574 ppb	18:32:39
3	P 214.914†	234.1	11.2	6.7716 ug/L	6.7716 ppb	18:32:39
3	Pb 220.353†	-55.6	7.2	0.8656 ug/L	0.8656 ppb	18:32:39
3	S 181.975 Axial†	38.7	-5.6	-7.8522 ug/L	-7.8522 ppb	18:32:39
3	Sb 206.836†	34.2	0.3	0.1269 ug/L	0.1269 ppb	18:32:39
3	Se 196.026†	-32.1	0.3	0.2078 ug/L	0.2078 ppb	18:32:39
3	Si 251.611†	641.3	173.5	5.4903 ug/L	5.4903 ppb	18:32:39
3	Sn 189.927†	4.8	3.1	0.5391 ug/L	0.5391 ppb	18:32:39
3	Ti 334.940†	-1343.2	5.8	0.0096 ug/L	0.0096 ppb	18:32:18
3	Tl 190.801†	-26.5	7.8	2.3677 ug/L	2.3677 ppb	18:32:39
3	U 409.014†	-2016.6	-130.4	-3.8395 ug/L	-3.8395 ppb	18:32:18
3	V 292.402†	-1404.2	-28.9	-0.2013 ug/L	-0.2013 ppb	18:32:18
3	Zn 213.857†	677.0	44.9	0.4203 ug/L	0.4203 ppb	18:32:39
3	SiO2†	688.9	222.3	14.987 ug/L	14.987 ppb	18:32:54

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861809.6	100.44 %	0.810			0.81%
Sc Radial	5050.4	98.6 %	11.75			11.92%
Y 371.029	729980.2	100.32 %	0.742			0.74%
Y RADIAL	5394.8	97.99 %	11.376			11.61%
Ag 328.068†	-46.2	-0.2129 ug/L	0.30196	-0.2129 ppb	0.30196	141.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.4	-4.2783 ug/L	5.35980	-4.2783 ppb	5.35980	125.28%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.4811 ug/L	2.05837	-0.4811 ppb	2.05837	427.88%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	272.6	6.1186 ug/L	0.88462	6.1186 ppb	0.88462	14.46%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-3.1	-0.0245 ug/L	0.03954	-0.0245 ppb	0.03954	161.70%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	44.4	0.0168 ug/L	0.00394	0.0168 ppb	0.00394	23.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.2	1.8951 ug/L	11.06788	1.8951 ppb	11.06788	584.04%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	25.0	0.2748 ug/L	0.02205	0.2748 ppb	0.02205	8.02%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.1	0.1027 ug/L	0.09415	0.1027 ppb	0.09415	91.69%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.7	0.0638 ug/L	0.16276	0.0638 ppb	0.16276	255.21%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	30.5	0.0918 ug/L	0.23229	0.0918 ppb	0.23229	252.97%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.6	-5.4229 ug/L	9.67210	-5.4229 ppb	9.67210	178.36%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	348.4	63.452 ug/L	67.8324	63.452 ppb	67.8324	106.90%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.8	-25.730 ug/L	61.8583	-25.730 ppb	61.8583	240.42%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	21.6	0.0242 ug/L	0.01311	0.0242 ppb	0.01311	54.25%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.0	-0.0694 ug/L	0.20301	-0.0694 ppb	0.20301	292.47%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-52.8	-15.147 ug/L	43.2764	-15.147 ppb	43.2764	285.72%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.6	-0.0887 ug/L	0.15138	-0.0887 ppb	0.15138	170.66%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	6.8	4.0747 ug/L	2.71838	4.0747 ppb	2.71838	66.71%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	4.1	0.4949 ug/L	0.32849	0.4949 ppb	0.32849	66.38%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.3	0.3930 ug/L	8.19010	0.3930 ppb	8.19010	>999.9%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.3	1.8158 ug/L	1.86587	1.8158 ppb	1.86587	102.76%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.4	0.8639 ug/L	1.68453	0.8639 ppb	1.68453	195.00%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	231.6	7.3331 ug/L	1.93732	7.3331 ppb	1.93732	26.42%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.6	0.9695 ug/L	0.87128	0.9695 ppb	0.87128	89.87%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	5.7	0.0363 ug/L	0.08429	0.0363 ppb	0.08429	231.91%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	21.2	0.0372 ug/L	0.06183	0.0372 ppb	0.06183	166.21%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	6.4	1.9402 ug/L	0.57130	1.9402 ppb	0.57130	29.45%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-71.6	-2.1078 ug/L	1.73236	-2.1078 ppb	1.73236	82.19%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-27.1	-0.1881 ug/L	0.04467	-0.1881 ppb	0.04467	23.75%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	38.0	0.3577 ug/L	0.05564	0.3577 ppb	0.05564	15.55%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	210.6	14.208 ug/L	1.4125	14.208 ppb	1.4125	9.94%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 33
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/12/2010 19:17:29
 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	5085.4	5085.4	99.3 %		19:19:21
1	Y RADIAL	5414.2	5414.2	98.34 %		19:19:21
1	Al 396.153Radial†	6314.5	6364.8	5066.3 ug/L	5066.3 ppb	19:19:21
1	Ca 317.933Radial†	3220.4	3223.7	5203.9 ug/L	5203.9 ppb	19:19:41
1	Fe 238.204 Radial†	611.6	604.4	5153.9 ug/L	5153.9 ppb	19:19:41
1	K 766.490 Radial†	29011.8	26702.9	4856.6 ug/L	4856.6 ppb	19:19:21
1	Mg 279.077 IEC†	160.2	158.2	5254.6 ug/L	5254.6 ppb	19:19:41
1	Na 589.592 Radial†	31467.3	32996.0	9458.3 ug/L	9458.3 ppb	19:19:21
1	Sr 421.552†	75413.0	75930.2	484.74 ug/L	484.74 ppb	19:19:21
1	Sc 361.383	877713.6	877713.6	102.29 %		19:20:38
1	Y 371.029	729955.5	729955.5	100.31 %		19:20:38
1	Ag 328.068†	112620.8	109743.5	506.73 ug/L	506.73 ppb	19:20:43
1	As 188.979†	1173.5	1171.2	504.98 ug/L	504.98 ppb	19:21:03
1	B 249.677†	22022.6	22144.9	494.78 ug/L	494.78 ppb	19:20:43
1	Ba 233.527†	66002.1	64533.6	501.28 ug/L	501.28 ppb	19:20:43
1	Be 313.107†	1374632.4	1348344.6	510.56 ug/L	510.56 ppb	19:20:38
1	Cd 226.502†	46617.3	45775.7	503.45 ug/L	503.45 ppb	19:20:43
1	Co 228.616†	25298.5	24809.6	503.48 ug/L	503.48 ppb	19:20:43
1	Cr 267.716†	46269.2	45154.8	501.59 ug/L	501.59 ppb	19:20:43
1	Cu 324.752†	177428.3	167055.3	498.34 ug/L	498.34 ppb	19:20:43
1	Mn 257.610†	469388.9	458454.9	503.07 ug/L	503.07 ppb	19:20:38
1	Mo 202.031†	7302.2	7117.1	497.07 ug/L	497.07 ppb	19:21:03
1	Ni 231.604†	20904.9	20370.1	503.79 ug/L	503.79 ppb	19:20:43
1	P 214.914†	4420.2	4101.0	2345.1 ug/L	2345.1 ppb	19:21:03
1	Pb 220.353†	4146.9	4116.3	499.84 ug/L	499.84 ppb	19:21:03
1	S 181.975 Axial†	778.9	717.6	997.64 ug/L	997.64 ppb	19:21:03
1	Sb 206.836†	1509.2	1442.0	506.71 ug/L	506.71 ppb	19:21:03
1	Se 196.026†	778.3	792.9	516.36 ug/L	516.36 ppb	19:21:03
1	Si 251.611†	82106.3	79808.2	2520.3 ug/L	2520.3 ppb	19:20:43
1	Sn 189.927†	2924.2	2857.1	498.66 ug/L	498.66 ppb	19:21:03
1	Ti 334.940†	314374.0	308672.9	494.14 ug/L	494.14 ppb	19:20:43
1	Tl 190.801†	1624.4	1622.1	493.07 ug/L	493.07 ppb	19:21:03
1	U 409.014†	15889.9	17398.2	510.48 ug/L	510.48 ppb	19:20:43
1	V 292.402†	74136.6	73837.2	507.45 ug/L	507.45 ppb	19:20:43
1	Zn 213.857†	55718.1	53846.5	501.09 ug/L	501.09 ppb	19:20:43
1	SiO2†	80913.2	78643.5	5290.9 ug/L	5290.9 ppb	19:22:11
2	Sc Radial	5141.0	5141.0	100 %		19:19:46
2	Y RADIAL	5461.7	5461.7	99.21 %		19:19:46
2	Al 396.153Radial†	6490.2	6471.0	5150.9 ug/L	5150.9 ppb	19:19:46
2	Ca 317.933Radial†	3222.0	3190.1	5149.7 ug/L	5149.7 ppb	19:20:06
2	Fe 238.204 Radial†	619.0	605.1	5159.9 ug/L	5159.9 ppb	19:20:06
2	K 766.490 Radial†	29703.3	27075.6	4924.4 ug/L	4924.4 ppb	19:19:46
2	Mg 279.077 IEC†	161.3	157.6	5232.8 ug/L	5232.8 ppb	19:20:06
2	Na 589.592 Radial†	32430.5	33612.5	9635.1 ug/L	9635.1 ppb	19:19:46
2	Sr 421.552†	77905.7	77591.1	495.34 ug/L	495.34 ppb	19:19:46
2	Sc 361.383	866864.9	866864.9	101.02 %		19:21:09
2	Y 371.029	721874.5	721874.5	99.204 %		19:21:09
2	Ag 328.068†	111604.9	110115.7	508.44 ug/L	508.44 ppb	19:21:14
2	As 188.979†	1175.2	1187.2	511.82 ug/L	511.82 ppb	19:21:34
2	B 249.677†	21888.2	22281.2	497.83 ug/L	497.83 ppb	19:21:14
2	Ba 233.527†	65369.2	64714.6	502.68 ug/L	502.68 ppb	19:21:14
2	Be 313.107†	1347097.0	1337906.8	506.62 ug/L	506.62 ppb	19:21:09
2	Cd 226.502†	46182.5	45915.7	504.99 ug/L	504.99 ppb	19:21:14
2	Co 228.616†	24986.1	24809.9	503.51 ug/L	503.51 ppb	19:21:14
2	Cr 267.716†	45815.6	45271.9	502.89 ug/L	502.89 ppb	19:21:14
2	Cu 324.752†	175420.2	167238.3	498.88 ug/L	498.88 ppb	19:21:14
2	Mn 257.610†	459568.5	454476.8	498.70 ug/L	498.70 ppb	19:21:09
2	Mo 202.031†	7317.8	7222.0	504.38 ug/L	504.38 ppb	19:21:34
2	Ni 231.604†	20749.3	20471.8	506.31 ug/L	506.31 ppb	19:21:14

2	P 214.914†	4437.8	4172.5	2388.0 ug/L	2388.0 ppb	19:21:34
2	Pb 220.353†	4151.5	4171.6	506.57 ug/L	506.57 ppb	19:21:34
2	S 181.975 Axial†	773.8	722.1	1003.9 ug/L	1003.9 ppb	19:21:34
2	Sb 206.836†	1517.9	1469.1	516.15 ug/L	516.15 ppb	19:21:34
2	Se 196.026†	786.9	811.0	527.81 ug/L	527.81 ppb	19:21:34
2	Si 251.611†	81099.7	79816.3	2520.5 ug/L	2520.5 ppb	19:21:14
2	Sn 189.927†	2930.5	2899.1	505.98 ug/L	505.98 ppb	19:21:34
2	Ti 334.940†	310576.9	308760.5	494.27 ug/L	494.27 ppb	19:21:14
2	Tl 190.801†	1632.9	1650.4	501.60 ug/L	501.60 ppb	19:21:34
2	U 409.014†	15712.9	17417.4	511.04 ug/L	511.04 ppb	19:21:14
2	V 292.402†	73223.2	73840.1	507.57 ug/L	507.57 ppb	19:21:14
2	Zn 213.857†	55183.1	53998.6	502.50 ug/L	502.50 ppb	19:21:14
2	SiO2†	81529.3	80243.2	5398.6 ug/L	5398.6 ppb	19:22:16
3	Sc Radial	5290.4	5290.4	103 %		19:20:11
3	Y RADIAL	5641.3	5641.3	102.5 %		19:20:11
3	Al 396.153Radial†	6532.2	6329.1	5037.3 ug/L	5037.3 ppb	19:20:11
3	Ca 317.933Radial†	3238.0	3115.0	5028.5 ug/L	5028.5 ppb	19:20:31
3	Fe 238.204 Radial†	617.3	586.0	4997.6 ug/L	4997.6 ppb	19:20:31
3	K 766.490 Radial†	29921.3	26451.3	4810.8 ug/L	4810.8 ppb	19:20:11
3	Mg 279.077 IEC†	164.6	156.3	5191.3 ug/L	5191.3 ppb	19:20:31
3	Na 589.592 Radial†	32513.0	32780.4	9396.5 ug/L	9396.5 ppb	19:20:11
3	Sr 421.552†	77801.6	75299.6	480.72 ug/L	480.72 ppb	19:20:11
3	Sc 361.383	868991.5	868991.5	101.27 %		19:21:40
3	Y 371.029	722250.1	722250.1	99.256 %		19:21:40
3	Ag 328.068†	112534.4	110763.2	511.38 ug/L	511.38 ppb	19:21:45
3	As 188.979†	1183.5	1192.5	514.07 ug/L	514.07 ppb	19:22:05
3	B 249.677†	22119.2	22456.4	501.78 ug/L	501.78 ppb	19:21:45
3	Ba 233.527†	66028.5	65207.4	506.50 ug/L	506.50 ppb	19:21:45
3	Be 313.107†	1369631.3	1356894.8	513.80 ug/L	513.80 ppb	19:21:40
3	Cd 226.502†	46580.2	46196.5	508.10 ug/L	508.10 ppb	19:21:45
3	Co 228.616†	25274.6	25034.2	508.06 ug/L	508.06 ppb	19:21:45
3	Cr 267.716†	46204.0	45544.4	505.92 ug/L	505.92 ppb	19:21:45
3	Cu 324.752†	176643.1	168020.9	501.21 ug/L	501.21 ppb	19:21:45
3	Mn 257.610†	467168.1	460867.8	505.70 ug/L	505.70 ppb	19:21:40
3	Mo 202.031†	7356.5	7242.4	505.79 ug/L	505.79 ppb	19:22:05
3	Ni 231.604†	20967.5	20637.0	510.39 ug/L	510.39 ppb	19:21:45
3	P 214.914†	4467.3	4190.9	2398.6 ug/L	2398.6 ppb	19:22:05
3	Pb 220.353†	4154.0	4164.0	505.64 ug/L	505.64 ppb	19:22:05
3	S 181.975 Axial†	779.9	726.2	1009.6 ug/L	1009.6 ppb	19:22:05
3	Sb 206.836†	1518.8	1466.3	515.23 ug/L	515.23 ppb	19:22:05
3	Se 196.026†	788.5	810.7	527.13 ug/L	527.13 ppb	19:22:05
3	Si 251.611†	81767.5	80279.3	2535.1 ug/L	2535.1 ppb	19:21:45
3	Sn 189.927†	2941.9	2903.2	506.67 ug/L	506.67 ppb	19:22:05
3	Ti 334.940†	313010.6	310411.4	496.90 ug/L	496.90 ppb	19:21:45
3	Tl 190.801†	1640.4	1653.9	502.67 ug/L	502.67 ppb	19:22:05
3	U 409.014†	15732.4	17398.6	510.50 ug/L	510.50 ppb	19:21:45
3	V 292.402†	74043.5	74472.8	511.90 ug/L	511.90 ppb	19:21:45
3	Zn 213.857†	55755.3	54430.0	506.53 ug/L	506.53 ppb	19:21:45
3	SiO2†	80564.7	79093.3	5321.0 ug/L	5321.0 ppb	19:22:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	871190.0	101.53 %	0.670			0.66%
Sc Radial	5172.3	101 %	2.1			2.05%
Y 371.029	724693.4	99.592 %	0.6268			0.63%
Y RADIAL	5505.7	100.0 %	2.18			2.17%
Ag 328.068†	110207.5	508.85 ug/L	2.351	508.85 ppb	2.351	0.46%
QC value within limits for Ag 328.068 Recovery = 101.77%						
Al 396.153Radial†	6388.3	5084.8 ug/L	58.99	5084.8 ppb	58.99	1.16%
QC value within limits for Al 396.153Radial Recovery = 101.70%						
As 188.979†	1183.6	510.29 ug/L	4.736	510.29 ppb	4.736	0.93%
QC value within limits for As 188.979 Recovery = 102.06%						
B 249.677†	22294.2	498.13 ug/L	3.511	498.13 ppb	3.511	0.70%
QC value within limits for B 249.677 Recovery = 99.63%						
Ba 233.527†	64818.5	503.49 ug/L	2.704	503.49 ppb	2.704	0.54%
QC value within limits for Ba 233.527 Recovery = 100.70%						
Be 313.107†	1347715.4	510.32 ug/L	3.596	510.32 ppb	3.596	0.70%
QC value within limits for Be 313.107 Recovery = 102.06%						
Ca 317.933Radial†	3176.3	5127.3 ug/L	89.81	5127.3 ppb	89.81	1.75%

QC value within limits for Ca 317.933 Radial Recovery = 102.55%

Cd 226.502†	45962.6	505.51 ug/L	2.369	505.51 ppb	2.369	0.47%
QC value within limits for Cd 226.502 Recovery = 101.10%						
Co 228.616†	24884.6	505.02 ug/L	2.635	505.02 ppb	2.635	0.52%
QC value within limits for Co 228.616 Recovery = 101.00%						
Cr 267.716†	45323.7	503.47 ug/L	2.219	503.47 ppb	2.219	0.44%
QC value within limits for Cr 267.716 Recovery = 100.69%						
Cu 324.752†	167438.2	499.48 ug/L	1.525	499.48 ppb	1.525	0.31%
QC value within limits for Cu 324.752 Recovery = 99.90%						
Fe 238.204 Radial†	598.5	5103.8 ug/L	91.98	5103.8 ppb	91.98	1.80%
QC value within limits for Fe 238.204 Radial Recovery = 102.08%						
K 766.490 Radial†	26743.3	4863.9 ug/L	57.13	4863.9 ppb	57.13	1.17%
QC value within limits for K 766.490 Radial Recovery = 97.28%						
Mg 279.077 IEC†	157.4	5226.2 ug/L	32.19	5226.2 ppb	32.19	0.62%
QC value within limits for Mg 279.077 IEC Recovery = 104.52%						
Mn 257.610†	457933.2	502.49 ug/L	3.533	502.49 ppb	3.533	0.70%
QC value within limits for Mn 257.610 Recovery = 100.50%						
Mo 202.031†	7193.8	502.41 ug/L	4.684	502.41 ppb	4.684	0.93%
QC value within limits for Mo 202.031 Recovery = 100.48%						
Na 589.592 Radial†	33129.6	9496.6 ug/L	123.79	9496.6 ppb	123.79	1.30%
QC value within limits for Na 589.592 Radial Recovery = 94.97%						
Ni 231.604†	20493.0	506.83 ug/L	3.333	506.83 ppb	3.333	0.66%
QC value within limits for Ni 231.604 Recovery = 101.37%						
P 214.914†	4154.8	2377.3 ug/L	28.32	2377.3 ppb	28.32	1.19%
QC value within limits for P 214.914 Recovery = 95.09%						
Pb 220.353†	4150.6	504.01 ug/L	3.648	504.01 ppb	3.648	0.72%
QC value within limits for Pb 220.353 Recovery = 100.80%						
S 181.975 Axial†	721.9	1003.7 ug/L	6.01	1003.7 ppb	6.01	0.60%
QC value within limits for S 181.975 Axial Recovery = 100.37%						
Sb 206.836†	1459.1	512.70 ug/L	5.203	512.70 ppb	5.203	1.01%
QC value within limits for Sb 206.836 Recovery = 102.54%						
Se 196.026†	804.8	523.77 ug/L	6.421	523.77 ppb	6.421	1.23%
QC value within limits for Se 196.026 Recovery = 104.75%						
Si 251.611†	79968.0	2525.3 ug/L	8.50	2525.3 ppb	8.50	0.34%
QC value within limits for Si 251.611 Recovery = 101.01%						
Sn 189.927†	2886.5	503.77 ug/L	4.438	503.77 ppb	4.438	0.88%
QC value within limits for Sn 189.927 Recovery = 100.75%						
Sr 421.552†	76273.7	486.93 ug/L	7.557	486.93 ppb	7.557	1.55%
QC value within limits for Sr 421.552 Recovery = 97.39%						
Ti 334.940†	309281.6	495.10 ug/L	1.558	495.10 ppb	1.558	0.31%
QC value within limits for Ti 334.940 Recovery = 99.02%						
Tl 190.801†	1642.1	499.11 ug/L	5.258	499.11 ppb	5.258	1.05%
QC value within limits for Tl 190.801 Recovery = 99.82%						
U 409.014†	17404.8	510.67 ug/L	0.318	510.67 ppb	0.318	0.06%
QC value within limits for U 409.014 Recovery = 102.13%						
V 292.402†	74050.0	508.97 ug/L	2.538	508.97 ppb	2.538	0.50%
QC value within limits for V 292.402 Recovery = 101.79%						
Zn 213.857†	54091.7	503.37 ug/L	2.827	503.37 ppb	2.827	0.56%
QC value within limits for Zn 213.857 Recovery = 100.67%						
SiO2†	79326.7	5336.8 ug/L	55.57	5336.8 ppb	55.57	1.04%
QC value within limits for SiO2 Recovery = 99.80%						

All analyte(s) passed QC.

Sequence No.: 34

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 19:24:31

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	5288.2	5288.2	103 %		19:26:22
1	Y RADIAL	5685.1	5685.1	103.3 %		19:26:22
1	Al 396.153Radial†	21.7	27.2	21.697 ug/L	21.697 ppb	19:26:22
1	Ca 317.933Radial†	15.7	-4.0	-6.5005 ug/L	-6.5005 ppb	19:26:42
1	Fe 238.204 Radial†	10.7	-1.2	-10.484 ug/L	-10.484 ppb	19:26:42
1	K 766.490 Radial†	2755.5	156.8	28.555 ug/L	28.555 ppb	19:26:22
1	Mg 279.077 IEC†	3.4	0.2	7.6917 ug/L	7.6917 ppb	19:26:42
1	Na 589.592 Radial†	-1384.5	-31.8	-9.1085 ug/L	-9.1085 ppb	19:26:22
1	Sr 421.552†	9.4	-0.7	-0.0041 ug/L	-0.0041 ppb	19:26:22
1	Sc 361.383	876915.4	876915.4	102.20 %		19:27:39
1	Y 371.029	742101.2	742101.2	101.98 %		19:27:39
1	Ag 328.068†	393.4	27.9	0.1241 ug/L	0.1241 ppb	19:27:44
1	As 188.979†	-23.8	0.7	0.2834 ug/L	0.2834 ppb	19:28:04
1	B 249.677†	-439.1	185.5	4.1645 ug/L	4.1645 ppb	19:28:04
1	Ba 233.527†	-12.4	-3.6	-0.0291 ug/L	-0.0291 ppb	19:28:04
1	Be 313.107†	-4400.3	169.0	0.0641 ug/L	0.0641 ppb	19:27:44
1	Cd 226.502†	-181.9	23.6	0.2610 ug/L	0.2610 ppb	19:28:04
1	Co 228.616†	-84.3	-5.2	-0.1046 ug/L	-0.1046 ppb	19:28:04
1	Cr 267.716†	88.3	7.4	0.0821 ug/L	0.0821 ppb	19:28:04
1	Cu 324.752†	6506.1	-36.1	-0.1074 ug/L	-0.1074 ppb	19:27:44
1	Mn 257.610†	418.9	-19.9	-0.0231 ug/L	-0.0231 ppb	19:28:04
1	Mo 202.031†	31.4	9.1	0.6316 ug/L	0.6316 ppb	19:28:04
1	Ni 231.604†	85.5	16.6	0.4116 ug/L	0.4116 ppb	19:28:04
1	P 214.914†	231.1	5.9	3.5595 ug/L	3.5595 ppb	19:28:04
1	Pb 220.353†	-60.2	3.3	0.4022 ug/L	0.4022 ppb	19:28:04
1	S 181.975 Axial†	41.6	-3.1	-4.3835 ug/L	-4.3835 ppb	19:28:04
1	Sb 206.836†	38.5	4.3	1.4712 ug/L	1.4712 ppb	19:28:04
1	Se 196.026†	-31.1	1.6	0.9791 ug/L	0.9791 ppb	19:28:04
1	Si 251.611†	583.7	110.5	3.4906 ug/L	3.4906 ppb	19:28:04
1	Sn 189.927†	6.4	4.6	0.8009 ug/L	0.8009 ppb	19:28:04
1	Ti 334.940†	-1284.0	77.8	0.1237 ug/L	0.1237 ppb	19:27:44
1	Tl 190.801†	-33.1	1.7	0.5224 ug/L	0.5224 ppb	19:28:04
1	U 409.014†	-1962.2	-56.1	-1.6516 ug/L	-1.6516 ppb	19:27:39
1	V 292.402†	-1451.0	-60.1	-0.3995 ug/L	-0.3995 ppb	19:27:44
1	Zn 213.857†	651.1	12.5	0.1157 ug/L	0.1157 ppb	19:28:04
1	SiO2†	576.3	104.9	7.0573 ug/L	7.0573 ppb	19:29:10
2	Sc Radial	5430.5	5430.5	106 %		19:26:47
2	Y RADIAL	5853.9	5853.9	106.3 %		19:26:47
2	Al 396.153Radial†	-5.8	0.7	0.5667 ug/L	0.5667 ppb	19:26:47
2	Ca 317.933Radial†	21.0	0.6	0.9086 ug/L	0.9086 ppb	19:27:07
2	Fe 238.204 Radial†	9.1	-2.9	-24.936 ug/L	-24.936 ppb	19:27:07
2	K 766.490 Radial†	2624.4	-36.7	-6.6913 ug/L	-6.6913 ppb	19:26:47
2	Mg 279.077 IEC†	4.5	1.2	40.886 ug/L	40.886 ppb	19:27:07
2	Na 589.592 Radial†	-1385.5	2.4	0.6808 ug/L	0.6808 ppb	19:26:47
2	Sr 421.552†	32.7	21.1	0.1347 ug/L	0.1347 ppb	19:26:47
2	Sc 361.383	851960.2	851960.2	99.288 %		19:28:09
2	Y 371.029	720197.8	720197.8	98.974 %		19:28:09
2	Ag 328.068†	266.9	-88.2	-0.4078 ug/L	-0.4078 ppb	19:28:14
2	As 188.979†	-28.5	-4.7	-2.0343 ug/L	-2.0343 ppb	19:28:35
2	B 249.677†	-457.6	154.2	3.4654 ug/L	3.4654 ppb	19:28:35
2	Ba 233.527†	-1.6	7.0	0.0530 ug/L	0.0530 ppb	19:28:35
2	Be 313.107†	-4484.8	-42.3	-0.0160 ug/L	-0.0160 ppb	19:28:14
2	Cd 226.502†	-198.8	1.4	0.0170 ug/L	0.0170 ppb	19:28:35
2	Co 228.616†	-73.9	2.9	0.0583 ug/L	0.0583 ppb	19:28:35
2	Cr 267.716†	79.7	1.3	0.0167 ug/L	0.0167 ppb	19:28:35
2	Cu 324.752†	6345.5	-11.4	-0.0317 ug/L	-0.0317 ppb	19:28:14
2	Mn 257.610†	423.1	-3.7	-0.0082 ug/L	-0.0082 ppb	19:28:35
2	Mo 202.031†	21.9	0.5	0.0305 ug/L	0.0305 ppb	19:28:35
2	Ni 231.604†	83.7	17.3	0.4287 ug/L	0.4287 ppb	19:28:35

2	P 214.914†	230.4	11.7	7.0888 ug/L	7.0888 ppb	19:28:35
2	Pb 220.353†	-61.2	0.5	0.0683 ug/L	0.0683 ppb	19:28:35
2	S 181.975 Axial†	44.2	0.6	0.8677 ug/L	0.8677 ppb	19:28:35
2	Sb 206.836†	35.1	1.9	0.6590 ug/L	0.6590 ppb	19:28:35
2	Se 196.026†	-33.4	-1.6	-1.1102 ug/L	-1.1102 ppb	19:28:35
2	Si 251.611†	583.1	126.7	4.0092 ug/L	4.0092 ppb	19:28:35
2	Sn 189.927†	5.7	4.1	0.7137 ug/L	0.7137 ppb	19:28:35
2	Ti 334.940†	-1322.7	2.0	0.0028 ug/L	0.0028 ppb	19:28:14
2	Tl 190.801†	-24.3	9.6	2.9006 ug/L	2.9006 ppb	19:28:35
2	U 409.014†	-2069.4	-220.4	-6.4856 ug/L	-6.4856 ppb	19:28:09
2	V 292.402†	-1361.0	-11.0	-0.0816 ug/L	-0.0816 ppb	19:28:14
2	Zn 213.857†	663.9	44.0	0.4126 ug/L	0.4126 ppb	19:28:35
2	SiO2†	556.9	101.9	6.8727 ug/L	6.8727 ppb	19:29:15
3	Sc Radial	5233.0	5233.0	102 %		19:27:12
3	Y RADIAL	5586.1	5586.1	101.5 %		19:27:12
3	Al 396.153Radial†	-10.4	-4.0	-3.1371 ug/L	-3.1371 ppb	19:27:12
3	Ca 317.933Radial†	15.6	-3.9	-6.3607 ug/L	-6.3607 ppb	19:27:33
3	Fe 238.204 Radial†	10.3	-1.5	-12.746 ug/L	-12.746 ppb	19:27:33
3	K 766.490 Radial†	2730.6	160.6	29.252 ug/L	29.252 ppb	19:27:12
3	Mg 279.077 IEC†	2.7	-0.4	-14.042 ug/L	-14.042 ppb	19:27:33
3	Na 589.592 Radial†	-1321.2	16.0	4.5893 ug/L	4.5893 ppb	19:27:12
3	Sr 421.552†	11.8	1.8	0.0113 ug/L	0.0113 ppb	19:27:12
3	Sc 361.383	872586.7	872586.7	101.69 %		19:28:40
3	Y 371.029	737786.8	737786.8	101.39 %		19:28:40
3	Ag 328.068†	315.9	-46.5	-0.2155 ug/L	-0.2155 ppb	19:28:45
3	As 188.979†	-24.5	-0.1	-0.0564 ug/L	-0.0564 ppb	19:29:05
3	B 249.677†	-456.7	166.1	3.7292 ug/L	3.7292 ppb	19:29:05
3	Ba 233.527†	-10.5	-1.7	-0.0130 ug/L	-0.0130 ppb	19:29:05
3	Be 313.107†	-4540.9	9.3	0.0036 ug/L	0.0036 ppb	19:28:45
3	Cd 226.502†	-188.0	16.8	0.1864 ug/L	0.1864 ppb	19:29:05
3	Co 228.616†	-79.9	-1.3	-0.0278 ug/L	-0.0278 ppb	19:29:05
3	Cr 267.716†	88.9	8.4	0.0936 ug/L	0.0936 ppb	19:29:05
3	Cu 324.752†	6374.1	-134.4	-0.4017 ug/L	-0.4017 ppb	19:28:45
3	Mn 257.610†	428.7	-8.3	-0.0097 ug/L	-0.0097 ppb	19:29:05
3	Mo 202.031†	10.3	-11.5	-0.8022 ug/L	-0.8022 ppb	19:29:05
3	Ni 231.604†	74.7	6.5	0.1599 ug/L	0.1599 ppb	19:29:05
3	P 214.914†	236.4	12.1	7.3834 ug/L	7.3834 ppb	19:29:05
3	Pb 220.353†	-48.0	15.0	1.8164 ug/L	1.8164 ppb	19:29:05
3	S 181.975 Axial†	48.5	3.8	5.3058 ug/L	5.3058 ppb	19:29:05
3	Sb 206.836†	44.4	10.2	3.4571 ug/L	3.4571 ppb	19:29:05
3	Se 196.026†	-33.1	-0.5	-0.3470 ug/L	-0.3470 ppb	19:29:05
3	Si 251.611†	574.1	103.9	3.2977 ug/L	3.2977 ppb	19:29:05
3	Sn 189.927†	3.0	1.3	0.2268 ug/L	0.2268 ppb	19:29:05
3	Ti 334.940†	-1342.3	14.2	0.0229 ug/L	0.0229 ppb	19:28:45
3	Tl 190.801†	-37.4	-2.7	-0.8087 ug/L	-0.8087 ppb	19:29:05
3	U 409.014†	-1887.0	8.3	0.2455 ug/L	0.2455 ppb	19:28:40
3	V 292.402†	-1323.0	58.7	0.3882 ug/L	0.3882 ppb	19:28:45
3	Zn 213.857†	641.3	6.0	0.0572 ug/L	0.0572 ppb	19:29:05
3	SiO2†	607.6	138.5	9.3610 ug/L	9.3610 ppb	19:29:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867154.1	101.06 %	1.554			1.54%
Sc Radial	5317.2	104 %	2.0			1.92%
Y 371.029	733361.9	100.78 %	1.595			1.58%
Y RADIAL	5708.4	103.7 %	2.46			2.37%
Ag 328.068†	-35.6	-0.1664 ug/L	0.26937	-0.1664 ppb	0.26937	161.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.0	6.3756 ug/L	13.39754	6.3756 ppb	13.39754	210.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-0.6024 ug/L	1.25161	-0.6024 ppb	1.25161	207.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	168.6	3.7864 ug/L	0.35306	3.7864 ppb	0.35306	9.32%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.5	0.0037 ug/L	0.04349	0.0037 ppb	0.04349	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	45.3	0.0172 ug/L	0.04176	0.0172 ppb	0.04176	242.30%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.5	-3.9842 ug/L	4.23789	-3.9842 ppb	4.23789	106.37%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	13.9	0.1548 ug/L	0.12503	0.1548 ppb	0.12503	80.78%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.2	-0.0247 ug/L	0.08148	-0.0247 ppb	0.08148	329.75%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.7	0.0641 ug/L	0.04151	0.0641 ppb	0.04151	64.74%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-60.6	-0.1803 ug/L	0.19551	-0.1803 ppb	0.19551	108.46%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.9	-16.055 ug/L	7.7735	-16.055 ppb	7.7735	48.42%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	93.6	17.039 ug/L	20.5538	17.039 ppb	20.5538	120.63%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.3	11.512 ug/L	27.6628	11.512 ppb	27.6628	240.30%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-10.6	-0.0137 ug/L	0.00823	-0.0137 ppb	0.00823	60.19%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-0.7	-0.0467 ug/L	0.72002	-0.0467 ppb	0.72002	>999.9%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-4.5	-1.2795 ug/L	7.05613	-1.2795 ppb	7.05613	551.48%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.5	0.3334 ug/L	0.15051	0.3334 ppb	0.15051	45.15%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	9.9	6.0106 ug/L	2.12781	6.0106 ppb	2.12781	35.40%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	6.3	0.7623 ug/L	0.92802	0.7623 ppb	0.92802	121.74%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.4	0.5967 ug/L	4.85033	0.5967 ppb	4.85033	812.86%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.5	1.8624 ug/L	1.43949	1.8624 ppb	1.43949	77.29%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.2	-0.1594 ug/L	1.05724	-0.1594 ppb	1.05724	663.43%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	113.7	3.5992 ug/L	0.36799	3.5992 ppb	0.36799	10.22%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.3	0.5805 ug/L	0.30935	0.5805 ppb	0.30935	53.29%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	7.4	0.0473 ug/L	0.07611	0.0473 ppb	0.07611	160.95%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	31.3	0.0498 ug/L	0.06480	0.0498 ppb	0.06480	130.07%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.9	0.8715 ug/L	1.87913	0.8715 ppb	1.87913	215.63%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-89.4	-2.6306 ug/L	3.47073	-2.6306 ppb	3.47073	131.94%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-4.1	-0.0310 ug/L	0.39632	-0.0310 ppb	0.39632	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	20.8	0.1952 ug/L	0.19056	0.1952 ppb	0.19056	97.64%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	115.1	7.7636 ug/L	1.38638	7.7636 ppb	1.38638	17.86%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 43
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/12/2010 20:26:43
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5253.4	5253.4	103 %		20:28:35
1	Y RADIAL	5636.4	5636.4	102.4 %		20:28:35
1	Al 396.153Radial†	6513.8	6355.6	5059.2 ug/L	5059.2 ppb	20:28:35
1	Ca 317.933Radial†	3246.9	3145.8	5078.1 ug/L	5078.1 ppb	20:28:55
1	Fe 238.204 Radial†	617.5	590.4	5034.1 ug/L	5034.1 ppb	20:28:55
1	K 766.490 Radial†	29599.3	26341.1	4790.7 ug/L	4790.7 ppb	20:28:35
1	Mg 279.077 IEC†	161.2	154.0	5115.3 ug/L	5115.3 ppb	20:28:55
1	Na 589.592 Radial†	32469.6	32959.4	9447.8 ug/L	9447.8 ppb	20:28:35
1	Sr 421.552†	77929.3	75953.8	484.89 ug/L	484.89 ppb	20:28:35
1	Sc 361.383	884973.6	884973.6	103.14 %		20:29:55
1	Y 371.029	737090.5	737090.5	101.30 %		20:29:55
1	Ag 328.068†	112014.7	108252.5	499.86 ug/L	499.86 ppb	20:29:55
1	As 188.979†	1162.8	1151.4	496.54 ug/L	496.54 ppb	20:30:15
1	B 249.677†	21943.5	21891.6	489.16 ug/L	489.16 ppb	20:29:55
1	Ba 233.527†	65733.7	63744.0	495.14 ug/L	495.14 ppb	20:29:55
1	Be 313.107†	1370707.7	1333514.6	504.96 ug/L	504.96 ppb	20:29:55
1	Cd 226.502†	46402.1	45193.1	497.03 ug/L	497.03 ppb	20:29:55
1	Co 228.616†	24566.0	23896.4	484.94 ug/L	484.94 ppb	20:30:15
1	Cr 267.716†	46108.4	44627.8	495.75 ug/L	495.75 ppb	20:29:55
1	Cu 324.752†	177436.0	165639.8	494.13 ug/L	494.13 ppb	20:29:55
1	Mn 257.610†	465149.7	450579.9	494.42 ug/L	494.42 ppb	20:29:55
1	Mo 202.031†	7303.6	7060.0	493.07 ug/L	493.07 ppb	20:30:15
1	Ni 231.604†	20435.7	19747.4	488.39 ug/L	488.39 ppb	20:30:15
1	P 214.914†	4426.5	4071.6	2328.6 ug/L	2328.6 ppb	20:30:15
1	Pb 220.353†	4142.3	4078.6	495.28 ug/L	495.28 ppb	20:30:15
1	S 181.975 Axial†	762.5	695.5	966.91 ug/L	966.91 ppb	20:30:15
1	Sb 206.836†	1492.1	1413.4	496.75 ug/L	496.75 ppb	20:30:15
1	Se 196.026†	772.2	780.7	508.35 ug/L	508.35 ppb	20:30:15
1	Si 251.611†	81401.0	78465.9	2477.9 ug/L	2477.9 ppb	20:29:55
1	Sn 189.927†	2906.7	2816.7	491.60 ug/L	491.60 ppb	20:30:15
1	Ti 334.940†	319054.3	310689.6	497.38 ug/L	497.38 ppb	20:29:55
1	Tl 190.801†	1628.6	1613.1	490.44 ug/L	490.44 ppb	20:30:15
1	U 409.014†	14746.4	16162.0	474.11 ug/L	474.11 ppb	20:29:55
1	V 292.402†	73716.7	72835.5	500.54 ug/L	500.54 ppb	20:29:55
1	Zn 213.857†	55442.0	53132.0	494.50 ug/L	494.50 ppb	20:29:55
1	SiO2†	80088.5	77194.8	5193.3 ug/L	5193.3 ppb	20:31:15
2	Sc Radial	5265.3	5265.3	103 %		20:29:01
2	Y RADIAL	5606.7	5606.7	101.8 %		20:29:01
2	Al 396.153Radial†	6512.4	6340.0	5046.2 ug/L	5046.2 ppb	20:29:01
2	Ca 317.933Radial†	3251.4	3143.1	5073.7 ug/L	5073.7 ppb	20:29:21
2	Fe 238.204 Radial†	623.5	594.8	5072.3 ug/L	5072.3 ppb	20:29:21
2	K 766.490 Radial†	29656.8	26332.0	4789.0 ug/L	4789.0 ppb	20:29:01
2	Mg 279.077 IEC†	164.1	156.5	5198.2 ug/L	5198.2 ppb	20:29:21
2	Na 589.592 Radial†	32641.8	33055.5	9475.4 ug/L	9475.4 ppb	20:29:01
2	Sr 421.552†	77950.3	75803.0	483.93 ug/L	483.93 ppb	20:29:01
2	Sc 361.383	882060.8	882060.8	102.80 %		20:30:22
2	Y 371.029	736236.6	736236.6	101.18 %		20:30:22
2	Ag 328.068†	112140.3	108733.4	502.08 ug/L	502.08 ppb	20:30:22
2	As 188.979†	1179.0	1170.9	504.86 ug/L	504.86 ppb	20:30:42
2	B 249.677†	22021.7	22037.9	492.41 ug/L	492.41 ppb	20:30:22
2	Ba 233.527†	65808.6	64027.4	497.34 ug/L	497.34 ppb	20:30:22
2	Be 313.107†	1375502.1	1342567.5	508.39 ug/L	508.39 ppb	20:30:22
2	Cd 226.502†	46559.9	45495.3	500.36 ug/L	500.36 ppb	20:30:22
2	Co 228.616†	24949.3	24348.0	494.12 ug/L	494.12 ppb	20:30:42
2	Cr 267.716†	46190.2	44855.0	498.27 ug/L	498.27 ppb	20:30:22
2	Cu 324.752†	177321.1	166096.1	495.49 ug/L	495.49 ppb	20:30:22
2	Mn 257.610†	466194.0	453085.2	497.17 ug/L	497.17 ppb	20:30:22
2	Mo 202.031†	7414.5	7191.2	502.23 ug/L	502.23 ppb	20:30:42
2	Ni 231.604†	20742.9	20111.8	497.40 ug/L	497.40 ppb	20:30:42

2	P 214.914†	4463.1	4121.4	2358.2 ug/L	2358.2 ppb	20:30:42
2	Pb 220.353†	4187.6	4135.9	502.23 ug/L	502.23 ppb	20:30:42
2	S 181.975 Axial†	789.6	724.2	1006.9 ug/L	1006.9 ppb	20:30:42
2	Sb 206.836†	1530.0	1455.0	511.21 ug/L	511.21 ppb	20:30:42
2	Se 196.026†	788.3	798.9	519.94 ug/L	519.94 ppb	20:30:42
2	Si 251.611†	81502.2	78824.9	2489.1 ug/L	2489.1 ppb	20:30:22
2	Sn 189.927†	2956.3	2874.3	501.63 ug/L	501.63 ppb	20:30:42
2	Ti 334.940†	319600.6	312242.6	499.85 ug/L	499.85 ppb	20:30:22
2	Tl 190.801†	1645.6	1634.9	497.01 ug/L	497.01 ppb	20:30:42
2	U 409.014†	14954.8	16411.9	481.46 ug/L	481.46 ppb	20:30:22
2	V 292.402†	73903.7	73253.5	503.52 ug/L	503.52 ppb	20:30:22
2	Zn 213.857†	55496.2	53362.3	496.59 ug/L	496.59 ppb	20:30:22
2	SiO2†	81765.0	79082.2	5320.3 ug/L	5320.3 ppb	20:31:20
3	Sc Radial	5264.4	5264.4	103 %		20:29:26
3	Y RADIAL	5600.3	5600.3	101.7 %		20:29:26
3	Al 396.153Radial†	6506.1	6335.0	5042.3 ug/L	5042.3 ppb	20:29:26
3	Ca 317.933Radial†	3231.8	3124.5	5043.8 ug/L	5043.8 ppb	20:29:46
3	Fe 238.204 Radial†	620.7	592.2	5050.2 ug/L	5050.2 ppb	20:29:46
3	K 766.490 Radial†	29624.2	26305.5	4784.2 ug/L	4784.2 ppb	20:29:26
3	Mg 279.077 IEC†	163.9	156.4	5192.6 ug/L	5192.6 ppb	20:29:46
3	Na 589.592 Radial†	32834.3	33248.4	9530.7 ug/L	9530.7 ppb	20:29:26
3	Sr 421.552†	78218.8	76077.6	485.68 ug/L	485.68 ppb	20:29:26
3	Sc 361.383	879291.1	879291.1	102.47 %		20:30:49
3	Y 371.029	731803.1	731803.1	100.57 %		20:30:49
3	Ag 328.068†	112155.4	109091.7	503.72 ug/L	503.72 ppb	20:30:49
3	As 188.979†	1173.2	1168.8	504.02 ug/L	504.02 ppb	20:31:10
3	B 249.677†	22134.9	22215.8	496.42 ug/L	496.42 ppb	20:30:49
3	Ba 233.527†	66129.8	64542.5	501.34 ug/L	501.34 ppb	20:30:49
3	Be 313.107†	1375554.7	1346833.7	510.01 ug/L	510.01 ppb	20:30:49
3	Cd 226.502†	46745.6	45819.2	503.92 ug/L	503.92 ppb	20:30:49
3	Co 228.616†	24778.0	24257.3	492.27 ug/L	492.27 ppb	20:31:10
3	Cr 267.716†	46288.6	45092.6	500.91 ug/L	500.91 ppb	20:30:49
3	Cu 324.752†	177433.5	166749.2	497.44 ug/L	497.44 ppb	20:30:49
3	Mn 257.610†	467707.8	455991.0	500.36 ug/L	500.36 ppb	20:30:49
3	Mo 202.031†	7348.7	7149.7	499.33 ug/L	499.33 ppb	20:31:10
3	Ni 231.604†	20579.3	20015.7	495.03 ug/L	495.03 ppb	20:31:10
3	P 214.914†	4421.6	4094.6	2341.6 ug/L	2341.6 ppb	20:31:10
3	Pb 220.353†	4173.4	4134.9	502.10 ug/L	502.10 ppb	20:31:10
3	S 181.975 Axial†	771.0	708.5	985.03 ug/L	985.03 ppb	20:31:10
3	Sb 206.836†	1517.2	1447.2	508.46 ug/L	508.46 ppb	20:31:10
3	Se 196.026†	775.3	788.6	513.38 ug/L	513.38 ppb	20:31:10
3	Si 251.611†	81617.1	79186.8	2500.6 ug/L	2500.6 ppb	20:30:49
3	Sn 189.927†	2933.3	2860.8	499.28 ug/L	499.28 ppb	20:31:10
3	Ti 334.940†	319938.0	313551.2	501.95 ug/L	501.95 ppb	20:30:49
3	Tl 190.801†	1652.9	1647.1	500.72 ug/L	500.72 ppb	20:31:10
3	U 409.014†	14863.0	16368.2	480.17 ug/L	480.17 ppb	20:30:49
3	V 292.402†	73906.3	73482.5	505.02 ug/L	505.02 ppb	20:30:49
3	Zn 213.857†	55879.4	53906.2	501.72 ug/L	501.72 ppb	20:30:49
3	SiO2†	81963.6	79526.6	5350.4 ug/L	5350.4 ppb	20:31:25

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	882108.5	102.80 %	0.331			0.32%
Sc Radial	5261.0	103 %	0.1			0.13%
Y 371.029	735043.4	101.01 %	0.390			0.39%
Y RADIAL	5614.5	102.0 %	0.35			0.34%
Ag 328.068†	108692.5	501.89 ug/L	1.942	501.89 ppb	1.942	0.39%
QC value within limits for Ag 328.068 Recovery = 100.38%						
Al 396.153Radial†	6343.5	5049.2 ug/L	8.81	5049.2 ppb	8.81	0.17%
QC value within limits for Al 396.153Radial Recovery = 100.98%						
As 188.979†	1163.7	501.81 ug/L	4.581	501.81 ppb	4.581	0.91%
QC value within limits for As 188.979 Recovery = 100.36%						
B 249.677†	22048.4	492.66 ug/L	3.633	492.66 ppb	3.633	0.74%
QC value within limits for B 249.677 Recovery = 98.53%						
Ba 233.527†	64104.6	497.94 ug/L	3.141	497.94 ppb	3.141	0.63%
QC value within limits for Ba 233.527 Recovery = 99.59%						
Be 313.107†	1340971.9	507.79 ug/L	2.575	507.79 ppb	2.575	0.51%
QC value within limits for Be 313.107 Recovery = 101.56%						
Ca 317.933Radial†	3137.8	5065.2 ug/L	18.67	5065.2 ppb	18.67	0.37%

QC value within limits for Ca 317.933 Radial Recovery = 101.30%							
Cd 226.502†	45502.5	500.44 ug/L	3.446	500.44 ppb	3.446	0.69%	
QC value within limits for Cd 226.502 Recovery = 100.09%							
Co 228.616†	24167.2	490.44 ug/L	4.854	490.44 ppb	4.854	0.99%	
QC value within limits for Co 228.616 Recovery = 98.09%							
Cr 267.716†	44858.5	498.31 ug/L	2.581	498.31 ppb	2.581	0.52%	
QC value within limits for Cr 267.716 Recovery = 99.66%							
Cu 324.752†	166161.7	495.68 ug/L	1.662	495.68 ppb	1.662	0.34%	
QC value within limits for Cu 324.752 Recovery = 99.14%							
Fe 238.204 Radial†	592.5	5052.2 ug/L	19.19	5052.2 ppb	19.19	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 101.04%							
K 766.490 Radial†	26326.2	4788.0 ug/L	3.39	4788.0 ppb	3.39	0.07%	
QC value within limits for K 766.490 Radial Recovery = 95.76%							
Mg 279.077 IEC†	155.7	5168.7 ug/L	46.30	5168.7 ppb	46.30	0.90%	
QC value within limits for Mg 279.077 IEC Recovery = 103.37%							
Mn 257.610†	453218.7	497.32 ug/L	2.969	497.32 ppb	2.969	0.60%	
QC value within limits for Mn 257.610 Recovery = 99.46%							
Mo 202.031†	7133.6	498.21 ug/L	4.682	498.21 ppb	4.682	0.94%	
QC value within limits for Mo 202.031 Recovery = 99.64%							
Na 589.592 Radial†	33087.8	9484.6 ug/L	42.19	9484.6 ppb	42.19	0.44%	
QC value within limits for Na 589.592 Radial Recovery = 94.85%							
Ni 231.604†	19958.3	493.61 ug/L	4.670	493.61 ppb	4.670	0.95%	
QC value within limits for Ni 231.604 Recovery = 98.72%							
P 214.914†	4095.9	2342.8 ug/L	14.84	2342.8 ppb	14.84	0.63%	
QC value within limits for P 214.914 Recovery = 93.71%							
Pb 220.353†	4116.5	499.87 ug/L	3.980	499.87 ppb	3.980	0.80%	
QC value within limits for Pb 220.353 Recovery = 99.97%							
S 181.975 Axial†	709.4	986.28 ug/L	20.032	986.28 ppb	20.032	2.03%	
QC value within limits for S 181.975 Axial Recovery = 98.63%							
Sb 206.836†	1438.5	505.47 ug/L	7.681	505.47 ppb	7.681	1.52%	
QC value within limits for Sb 206.836 Recovery = 101.09%							
Se 196.026†	789.4	513.89 ug/L	5.811	513.89 ppb	5.811	1.13%	
QC value within limits for Se 196.026 Recovery = 102.78%							
Si 251.611†	78825.9	2489.2 ug/L	11.37	2489.2 ppb	11.37	0.46%	
QC value within limits for Si 251.611 Recovery = 99.57%							
Sn 189.927†	2850.6	497.50 ug/L	5.247	497.50 ppb	5.247	1.05%	
QC value within limits for Sn 189.927 Recovery = 99.50%							
Sr 421.552†	75944.8	484.83 ug/L	0.878	484.83 ppb	0.878	0.18%	
QC value within limits for Sr 421.552 Recovery = 96.97%							
Ti 334.940†	312161.1	499.73 ug/L	2.286	499.73 ppb	2.286	0.46%	
QC value within limits for Ti 334.940 Recovery = 99.95%							
Tl 190.801†	1631.7	496.06 ug/L	5.205	496.06 ppb	5.205	1.05%	
QC value within limits for Tl 190.801 Recovery = 99.21%							
U 409.014†	16314.0	478.58 ug/L	3.923	478.58 ppb	3.923	0.82%	
QC value within limits for U 409.014 Recovery = 95.72%							
V 292.402†	73190.5	503.03 ug/L	2.281	503.03 ppb	2.281	0.45%	
QC value within limits for V 292.402 Recovery = 100.61%							
Zn 213.857†	53466.8	497.60 ug/L	3.714	497.60 ppb	3.714	0.75%	
QC value within limits for Zn 213.857 Recovery = 99.52%							
SiO2†	78601.2	5288.0 ug/L	83.39	5288.0 ppb	83.39	1.58%	
QC value within limits for SiO2 Recovery = 98.89%							
All analyte(s) passed QC.							

Sequence No.: 44
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 1/12/2010 20:33:35
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5260.7	5260.7	103 %		20:35:27
1	Y RADIAL	5627.0	5627.0	102.2 %		20:35:27
1	Al 396.153Radial†	-6.1	0.3	0.1942 ug/L	0.1942 ppb	20:35:27
1	Ca 317.933Radial†	15.3	-4.3	-6.9450 ug/L	-6.9450 ppb	20:35:47
1	Fe 238.204 Radial†	10.4	-1.4	-12.313 ug/L	-12.313 ppb	20:35:47
1	K 766.490 Radial†	2633.0	51.5	9.3887 ug/L	9.3887 ppb	20:35:27
1	Mg 279.077 IEC†	0.4	-2.7	-89.220 ug/L	-89.220 ppb	20:35:47
1	Na 589.592 Radial†	-1441.8	-94.6	-27.108 ug/L	-27.108 ppb	20:35:27
1	Sr 421.552†	1.3	-8.5	-0.0544 ug/L	-0.0544 ppb	20:35:27
1	Sc 361.383	843099.2	843099.2	98.255 %		20:36:44
1	Y 371.029	715967.2	715967.2	98.393 %		20:36:44
1	Ag 328.068†	242.4	-110.3	-0.5061 ug/L	-0.5061 ppb	20:36:44
1	As 188.979†	-18.0	5.6	2.3958 ug/L	2.3958 ppb	20:37:04
1	B 249.677†	-430.2	177.2	3.9800 ug/L	3.9800 ppb	20:37:04
1	Ba 233.527†	-11.3	-2.9	-0.0232 ug/L	-0.0232 ppb	20:37:04
1	Be 313.107†	-4300.6	97.6	0.0368 ug/L	0.0368 ppb	20:36:44
1	Cd 226.502†	-191.1	7.2	0.0793 ug/L	0.0793 ppb	20:37:04
1	Co 228.616†	-77.5	-1.6	-0.0319 ug/L	-0.0319 ppb	20:37:04
1	Cr 267.716†	88.1	10.7	0.1205 ug/L	0.1205 ppb	20:37:04
1	Cu 324.752†	6392.2	103.3	0.3105 ug/L	0.3105 ppb	20:36:44
1	Mn 257.610†	418.2	-4.1	-0.0021 ug/L	-0.0021 ppb	20:37:04
1	Mo 202.031†	23.2	2.0	0.1353 ug/L	0.1353 ppb	20:37:04
1	Ni 231.604†	82.1	16.5	0.4091 ug/L	0.4091 ppb	20:37:04
1	P 214.914†	225.9	9.6	5.7128 ug/L	5.7128 ppb	20:37:04
1	Pb 220.353†	-60.1	1.0	0.1230 ug/L	0.1230 ppb	20:37:04
1	S 181.975 Axial†	42.1	-1.0	-1.3978 ug/L	-1.3978 ppb	20:37:04
1	Sb 206.836†	35.5	2.7	0.9031 ug/L	0.9031 ppb	20:37:04
1	Se 196.026†	-31.1	0.4	0.2267 ug/L	0.2267 ppb	20:37:04
1	Si 251.611†	511.6	60.1	1.8995 ug/L	1.8995 ppb	20:37:04
1	Sn 189.927†	1.6	-0.0	-0.0072 ug/L	-0.0072 ppb	20:37:04
1	Ti 334.940†	-1325.6	-15.0	-0.0153 ug/L	-0.0153 ppb	20:36:44
1	Tl 190.801†	-25.6	8.0	2.4276 ug/L	2.4276 ppb	20:37:04
1	U 409.014†	-2006.1	-177.9	-5.2358 ug/L	-5.2358 ppb	20:36:44
1	V 292.402†	-1355.1	-19.4	-0.1393 ug/L	-0.1393 ppb	20:36:44
1	Zn 213.857†	666.6	53.8	0.5033 ug/L	0.5033 ppb	20:37:04
1	SiO2†	507.1	57.0	3.8435 ug/L	3.8435 ppb	20:38:00
2	Sc Radial	5291.7	5291.7	103 %		20:35:52
2	Y RADIAL	5670.3	5670.3	103.0 %		20:35:52
2	Al 396.153Radial†	-6.6	-0.2	-0.1499 ug/L	-0.1499 ppb	20:35:52
2	Ca 317.933Radial†	19.5	-0.4	-0.6024 ug/L	-0.6024 ppb	20:36:12
2	Fe 238.204 Radial†	10.7	-1.2	-9.7877 ug/L	-9.7877 ppb	20:36:12
2	K 766.490 Radial†	2582.6	-12.2	-2.2156 ug/L	-2.2156 ppb	20:35:52
2	Mg 279.077 IEC†	1.2	-1.9	-62.310 ug/L	-62.310 ppb	20:36:12
2	Na 589.592 Radial†	-1458.3	-102.4	-29.339 ug/L	-29.339 ppb	20:35:52
2	Sr 421.552†	-5.1	-14.7	-0.0940 ug/L	-0.0940 ppb	20:35:52
2	Sc 361.383	855743.9	855743.9	99.729 %		20:37:09
2	Y 371.029	726211.7	726211.7	99.800 %		20:37:09
2	Ag 328.068†	342.0	-14.2	-0.0656 ug/L	-0.0656 ppb	20:37:09
2	As 188.979†	-31.2	-7.4	-3.1505 ug/L	-3.1505 ppb	20:37:29
2	B 249.677†	-446.8	167.1	3.7521 ug/L	3.7521 ppb	20:37:29
2	Ba 233.527†	-3.4	5.2	0.0395 ug/L	0.0395 ppb	20:37:29
2	Be 313.107†	-4301.0	161.9	0.0608 ug/L	0.0608 ppb	20:37:09
2	Cd 226.502†	-183.9	17.3	0.1905 ug/L	0.1905 ppb	20:37:29
2	Co 228.616†	-77.2	-0.1	-0.0020 ug/L	-0.0020 ppb	20:37:29
2	Cr 267.716†	70.8	-8.0	-0.0872 ug/L	-0.0872 ppb	20:37:29
2	Cu 324.752†	6454.1	69.3	0.2085 ug/L	0.2085 ppb	20:37:09
2	Mn 257.610†	430.0	1.3	0.0030 ug/L	0.0030 ppb	20:37:29
2	Mo 202.031†	22.9	1.4	0.0955 ug/L	0.0955 ppb	20:37:29
2	Ni 231.604†	79.2	12.4	0.3057 ug/L	0.3057 ppb	20:37:29

2	P 214.914†	218.4	-1.3	-0.8269 ug/L	-0.8269 ppb	20:37:29
2	Pb 220.353†	-63.4	-1.4	-0.1650 ug/L	-0.1650 ppb	20:37:29
2	S 181.975 Axial†	51.8	8.0	11.160 ug/L	11.160 ppb	20:37:29
2	Sb 206.836†	44.3	11.0	3.7420 ug/L	3.7420 ppb	20:37:29
2	Se 196.026†	-23.7	8.3	5.1999 ug/L	5.1999 ppb	20:37:29
2	Si 251.611†	524.2	65.0	2.0562 ug/L	2.0562 ppb	20:37:29
2	Sn 189.927†	-0.5	-2.1	-0.3724 ug/L	-0.3724 ppb	20:37:29
2	Ti 334.940†	-1430.9	-100.6	-0.1542 ug/L	-0.1542 ppb	20:37:09
2	Tl 190.801†	-25.2	8.8	2.6458 ug/L	2.6458 ppb	20:37:29
2	U 409.014†	-2002.8	-144.4	-4.2493 ug/L	-4.2493 ppb	20:37:09
2	V 292.402†	-1388.4	-32.5	-0.2264 ug/L	-0.2264 ppb	20:37:09
2	Zn 213.857†	657.8	35.0	0.3271 ug/L	0.3271 ppb	20:37:29
2	SiO2†	539.8	82.2	5.5418 ug/L	5.5418 ppb	20:38:05
3	Sc Radial	5225.5	5225.5	102 %		20:36:17
3	Y RADIAL	5596.5	5596.5	101.7 %		20:36:17
3	Al 396.153Radial†	-6.9	-0.6	-0.4419 ug/L	-0.4419 ppb	20:36:17
3	Ca 317.933Radial†	15.9	-3.6	-5.8524 ug/L	-5.8524 ppb	20:36:37
3	Fe 238.204 Radial†	10.6	-1.2	-10.300 ug/L	-10.300 ppb	20:36:37
3	K 766.490 Radial†	2753.4	186.8	34.028 ug/L	34.028 ppb	20:36:17
3	Mg 279.077 IEC†	2.3	-0.8	-26.708 ug/L	-26.708 ppb	20:36:37
3	Na 589.592 Radial†	-1370.9	-34.6	-9.9073 ug/L	-9.9073 ppb	20:36:17
3	Sr 421.552†	9.9	-0.1	-0.0003 ug/L	-0.0003 ppb	20:36:17
3	Sc 361.383	851527.2	851527.2	99.237 %		20:37:34
3	Y 371.029	722573.1	722573.1	99.300 %		20:37:34
3	Ag 328.068†	321.8	-32.8	-0.1495 ug/L	-0.1495 ppb	20:37:34
3	As 188.979†	-16.3	7.5	3.2151 ug/L	3.2151 ppb	20:37:54
3	B 249.677†	-479.9	131.6	2.9542 ug/L	2.9542 ppb	20:37:54
3	Ba 233.527†	-15.0	-6.6	-0.0522 ug/L	-0.0522 ppb	20:37:54
3	Be 313.107†	-4283.0	158.8	0.0602 ug/L	0.0602 ppb	20:37:34
3	Cd 226.502†	-199.9	0.3	0.0024 ug/L	0.0024 ppb	20:37:54
3	Co 228.616†	-68.2	8.5	0.1715 ug/L	0.1715 ppb	20:37:54
3	Cr 267.716†	97.6	19.4	0.2175 ug/L	0.2175 ppb	20:37:54
3	Cu 324.752†	6347.8	-5.8	-0.0139 ug/L	-0.0139 ppb	20:37:34
3	Mn 257.610†	405.0	-21.7	-0.0238 ug/L	-0.0238 ppb	20:37:54
3	Mo 202.031†	14.5	-7.0	-0.4919 ug/L	-0.4919 ppb	20:37:54
3	Ni 231.604†	64.6	-1.9	-0.0469 ug/L	-0.0469 ppb	20:37:54
3	P 214.914†	214.4	-4.2	-2.5260 ug/L	-2.5260 ppb	20:37:54
3	Pb 220.353†	-63.1	-1.4	-0.1730 ug/L	-0.1730 ppb	20:37:54
3	S 181.975 Axial†	40.5	-3.0	-4.2412 ug/L	-4.2412 ppb	20:37:54
3	Sb 206.836†	42.7	9.6	3.2557 ug/L	3.2557 ppb	20:37:54
3	Se 196.026†	-23.1	8.7	5.4584 ug/L	5.4584 ppb	20:37:54
3	Si 251.611†	502.4	45.6	1.4493 ug/L	1.4493 ppb	20:37:54
3	Sn 189.927†	6.7	5.1	0.8859 ug/L	0.8859 ppb	20:37:54
3	Ti 334.940†	-1268.2	56.2	0.0945 ug/L	0.0945 ppb	20:37:34
3	Tl 190.801†	-36.0	-2.2	-0.6637 ug/L	-0.6637 ppb	20:37:54
3	U 409.014†	-2100.0	-252.3	-7.4265 ug/L	-7.4265 ppb	20:37:34
3	V 292.402†	-1415.6	-66.8	-0.4731 ug/L	-0.4731 ppb	20:37:34
3	Zn 213.857†	646.4	26.7	0.2521 ug/L	0.2521 ppb	20:37:54
3	SiO2†	492.2	36.9	2.5041 ug/L	2.5041 ppb	20:38:10

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850123.4	99.074 %		0.7503			0.76%
Sc Radial	5259.3	103 %		0.6			0.63%
Y 371.029	721584.0	99.164 %		0.7137			0.72%
Y RADIAL	5631.3	102.3 %		0.67			0.66%
Ag 328.068†	-52.4	-0.2404 ug/L		0.23391	-0.2404 ppb	0.23391	97.29%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-0.2	-0.1325 ug/L		0.31837	-0.1325 ppb	0.31837	240.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.9	0.8201 ug/L		3.46302	0.8201 ppb	3.46302	422.25%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	158.6	3.5621 ug/L		0.53866	3.5621 ppb	0.53866	15.12%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-1.4	-0.0120 ug/L		0.04689	-0.0120 ppb	0.04689	391.27%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	139.4	0.0526 ug/L		0.01366	0.0526 ppb	0.01366	25.97%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-2.8	-4.4666 ug/L		3.39082	-4.4666 ppb	3.39082	75.92%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	8.2	0.0907 ug/L	0.09457	0.0907 ppb	0.09457	104.24%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	2.3	0.0459 ug/L	0.10984	0.0459 ppb	0.10984	239.35%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	7.4	0.0836 ug/L	0.15567	0.0836 ppb	0.15567	186.20%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	55.6	0.1684 ug/L	0.16586	0.1684 ppb	0.16586	98.50%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.3	-10.800 ug/L	1.3350	-10.800 ppb	1.3350	12.36%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	75.4	13.734 ug/L	18.5085	13.734 ppb	18.5085	134.77%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.8	-59.413 ug/L	31.3570	-59.413 ppb	31.3570	52.78%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-8.2	-0.0076 ug/L	0.01422	-0.0076 ppb	0.01422	186.48%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.2	-0.0871 ug/L	0.35119	-0.0871 ppb	0.35119	403.40%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-77.2	-22.118 ug/L	10.6335	-22.118 ppb	10.6335	48.08%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	9.0	0.2226 ug/L	0.23908	0.2226 ppb	0.23908	107.39%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	1.4	0.7866 ug/L	4.34995	0.7866 ppb	4.34995	553.00%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.6	-0.0717 ug/L	0.16862	-0.0717 ppb	0.16862	235.25%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.3	1.8404 ug/L	8.19551	1.8404 ppb	8.19551	445.31%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	7.8	2.6336 ug/L	1.51823	2.6336 ppb	1.51823	57.65%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.8	3.6283 ug/L	2.94872	3.6283 ppb	2.94872	81.27%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	56.9	1.8017 ug/L	0.31507	1.8017 ppb	0.31507	17.49%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.0	0.1688 ug/L	0.64732	0.1688 ppb	0.64732	383.55%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-7.8	-0.0496 ug/L	0.04703	-0.0496 ppb	0.04703	94.92%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-19.8	-0.0250 ug/L	0.12463	-0.0250 ppb	0.12463	498.35%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.9	1.4699 ug/L	1.85099	1.4699 ppb	1.85099	125.93%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-191.5	-5.6372 ug/L	1.62622	-5.6372 ppb	1.62622	28.85%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-39.6	-0.2796 ug/L	0.17318	-0.2796 ppb	0.17318	61.94%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	38.5	0.3609 ug/L	0.12896	0.3609 ppb	0.12896	35.74%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	58.7	3.9631 ug/L	1.52234	3.9631 ppb	1.52234	38.41%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 45

Sample ID: 1202006030|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 1/12/2010 20:40:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006030|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5265.6	5265.6	103 %		20:42:12
1	Y RADIAL	5615.5	5615.5	102.0 %		20:42:12
1	Al 396.153Radial†	-7.2	-0.8	-0.6378 ug/L	-0.6378 ppb	20:42:12
1	Ca 317.933Radial†	34.5	14.4	23.175 ug/L	23.175 ppb	20:42:32
1	Fe 238.204 Radial†	17.4	5.3	45.341 ug/L	45.341 ppb	20:42:32
1	K 766.490 Radial†	2694.7	109.1	19.865 ug/L	19.865 ppb	20:42:12
1	Mg 279.077 IEC†	1.1	-2.0	-66.049 ug/L	-66.049 ppb	20:42:32
1	Na 589.592 Radial†	-1329.9	15.6	4.4609 ug/L	4.4609 ppb	20:42:12
1	Sr 421.552†	40.0	29.2	0.1860 ug/L	0.1860 ppb	20:42:12
1	Sc 361.383	863502.9	863502.9	100.63 %		20:43:29
1	Y 371.029	732441.6	732441.6	100.66 %		20:43:29
1	Ag 328.068†	359.7	0.4	0.0182 ug/L	0.0182 ppb	20:43:29
1	As 188.979†	-20.2	3.9	1.6729 ug/L	1.6729 ppb	20:43:49
1	B 249.677†	-491.9	126.3	2.8277 ug/L	2.8277 ppb	20:43:49
1	Ba 233.527†	1.1	9.7	0.0773 ug/L	0.0773 ppb	20:43:49
1	Be 313.107†	-4213.3	287.9	0.1096 ug/L	0.1096 ppb	20:43:29
1	Cd 226.502†	-178.0	24.7	0.2673 ug/L	0.2673 ppb	20:43:49
1	Co 228.616†	-82.3	-4.5	-0.0926 ug/L	-0.0926 ppb	20:43:49
1	Cr 267.716†	112.7	33.0	0.3681 ug/L	0.3681 ppb	20:43:49
1	Cu 324.752†	6379.1	-63.4	-0.1862 ug/L	-0.1862 ppb	20:43:29
1	Mn 257.610†	986.2	550.2	0.6105 ug/L	0.6105 ppb	20:43:49
1	Mo 202.031†	25.5	3.7	0.2649 ug/L	0.2649 ppb	20:43:49
1	Ni 231.604†	83.8	16.2	0.4013 ug/L	0.4013 ppb	20:43:49
1	P 214.914†	230.5	8.7	5.2410 ug/L	5.2410 ppb	20:43:49
1	Pb 220.353†	-63.7	-1.1	-0.1339 ug/L	-0.1339 ppb	20:43:49
1	S 181.975 Axial†	48.3	4.2	5.8071 ug/L	5.8071 ppb	20:43:49
1	Sb 206.836†	35.8	2.2	0.7427 ug/L	0.7427 ppb	20:43:49
1	Se 196.026†	-26.1	6.1	3.9594 ug/L	3.9594 ppb	20:43:49
1	Si 251.611†	1016.9	549.8	17.402 ug/L	17.402 ppb	20:43:49
1	Sn 189.927†	3.1	1.4	0.2500 ug/L	0.2500 ppb	20:43:49
1	Ti 334.940†	-1107.6	233.5	0.3827 ug/L	0.3827 ppb	20:43:29
1	Tl 190.801†	-42.0	-7.7	-2.3188 ug/L	-2.3188 ppb	20:43:49
1	U 409.014†	-1909.9	-34.0	-1.0080 ug/L	-1.0080 ppb	20:43:29
1	V 292.402†	-1325.3	42.7	0.2825 ug/L	0.2825 ppb	20:43:29
1	Zn 213.857†	1117.6	485.9	4.5547 ug/L	4.5547 ppb	20:43:49
1	SiO2†	1048.1	582.5	39.281 ug/L	39.281 ppb	20:44:45
2	Sc Radial	5323.1	5323.1	104 %		20:42:37
2	Y RADIAL	5664.5	5664.5	102.9 %		20:42:37
2	Al 396.153Radial†	-11.1	-4.5	-3.5905 ug/L	-3.5905 ppb	20:42:37
2	Ca 317.933Radial†	37.1	16.5	26.612 ug/L	26.612 ppb	20:42:58
2	Fe 238.204 Radial†	17.0	4.8	40.712 ug/L	40.712 ppb	20:42:58
2	K 766.490 Radial†	2565.8	-43.2	-7.8723 ug/L	-7.8723 ppb	20:42:37
2	Mg 279.077 IEC†	5.4	2.1	71.278 ug/L	71.278 ppb	20:42:58
2	Na 589.592 Radial†	-1322.5	36.6	10.499 ug/L	10.499 ppb	20:42:37
2	Sr 421.552†	46.2	34.7	0.2211 ug/L	0.2211 ppb	20:42:37
2	Sc 361.383	865585.9	865585.9	100.88 %		20:43:54
2	Y 371.029	733098.9	733098.9	100.75 %		20:43:54
2	Ag 328.068†	334.9	-25.1	-0.0982 ug/L	-0.0982 ppb	20:43:54
2	As 188.979†	-27.3	-3.1	-1.3045 ug/L	-1.3045 ppb	20:44:15
2	B 249.677†	-475.8	143.5	3.2133 ug/L	3.2133 ppb	20:44:15
2	Ba 233.527†	15.3	23.7	0.1855 ug/L	0.1855 ppb	20:44:15
2	Be 313.107†	-4276.2	235.6	0.0899 ug/L	0.0899 ppb	20:43:54
2	Cd 226.502†	-171.8	31.3	0.3402 ug/L	0.3402 ppb	20:44:15
2	Co 228.616†	-77.9	0.0	-0.0021 ug/L	-0.0021 ppb	20:44:15
2	Cr 267.716†	120.8	40.8	0.4552 ug/L	0.4552 ppb	20:44:15
2	Cu 324.752†	6381.4	-76.4	-0.2235 ug/L	-0.2235 ppb	20:43:54
2	Mn 257.610†	988.1	549.8	0.6040 ug/L	0.6040 ppb	20:44:15
2	Mo 202.031†	13.5	-8.3	-0.5727 ug/L	-0.5727 ppb	20:44:15
2	Ni 231.604†	90.3	22.4	0.5555 ug/L	0.5555 ppb	20:44:15

2	P 214.914†	227.7	5.5	3.3092 ug/L	3.3092 ppb	20:44:15
2	Pb 220.353†	-61.8	0.9	0.1078 ug/L	0.1078 ppb	20:44:15
2	S 181.975 Axial†	48.5	4.2	5.9058 ug/L	5.9058 ppb	20:44:15
2	Sb 206.836†	37.3	3.6	1.2267 ug/L	1.2267 ppb	20:44:15
2	Se 196.026†	-30.4	1.9	1.3227 ug/L	1.3227 ppb	20:44:15
2	Si 251.611†	1020.8	551.3	17.459 ug/L	17.459 ppb	20:44:15
2	Sn 189.927†	10.2	8.4	1.4762 ug/L	1.4762 ppb	20:44:15
2	Ti 334.940†	-1109.4	234.4	0.3747 ug/L	0.3747 ppb	20:43:54
2	Tl 190.801†	-40.2	-5.8	-1.7413 ug/L	-1.7413 ppb	20:44:15
2	U 409.014†	-2017.8	-136.4	-4.0199 ug/L	-4.0199 ppb	20:43:54
2	V 292.402†	-1341.8	29.6	0.1784 ug/L	0.1784 ppb	20:43:54
2	Zn 213.857†	1115.8	481.5	4.5126 ug/L	4.5126 ppb	20:44:15
2	SiO2†	1031.0	563.0	37.990 ug/L	37.990 ppb	20:44:50
3	Sc Radial	5243.9	5243.9	102 %		20:43:03
3	Y RADIAL	5660.3	5660.3	102.8 %		20:43:03
3	Al 396.153Radial†	0.1	6.3	5.0332 ug/L	5.0332 ppb	20:43:03
3	Ca 317.933Radial†	33.7	13.7	22.175 ug/L	22.175 ppb	20:43:23
3	Fe 238.204 Radial†	15.0	3.1	26.632 ug/L	26.632 ppb	20:43:23
3	K 766.490 Radial†	2684.5	110.1	20.036 ug/L	20.036 ppb	20:43:03
3	Mg 279.077 IEC†	1.2	-1.9	-63.694 ug/L	-63.694 ppb	20:43:23
3	Na 589.592 Radial†	-1338.3	2.0	0.5688 ug/L	0.5688 ppb	20:43:03
3	Sr 421.552†	12.2	2.1	0.0135 ug/L	0.0135 ppb	20:43:03
3	Sc 361.383	868213.7	868213.7	101.18 %		20:44:20
3	Y 371.029	734360.6	734360.6	100.92 %		20:44:20
3	Ag 328.068†	281.0	-79.4	-0.3605 ug/L	-0.3605 ppb	20:44:20
3	As 188.979†	-26.7	-2.5	-1.0492 ug/L	-1.0492 ppb	20:44:40
3	B 249.677†	-475.9	144.8	3.2460 ug/L	3.2460 ppb	20:44:40
3	Ba 233.527†	9.2	17.6	0.1365 ug/L	0.1365 ppb	20:44:40
3	Be 313.107†	-4311.1	213.9	0.0820 ug/L	0.0820 ppb	20:44:20
3	Cd 226.502†	-191.0	12.9	0.1398 ug/L	0.1398 ppb	20:44:40
3	Co 228.616†	-86.0	-7.8	-0.1594 ug/L	-0.1594 ppb	20:44:40
3	Cr 267.716†	108.5	28.2	0.3120 ug/L	0.3120 ppb	20:44:40
3	Cu 324.752†	6375.1	-101.8	-0.3043 ug/L	-0.3043 ppb	20:44:20
3	Mn 257.610†	945.8	504.9	0.5590 ug/L	0.5590 ppb	20:44:40
3	Mo 202.031†	24.2	2.2	0.1590 ug/L	0.1590 ppb	20:44:40
3	Ni 231.604†	84.1	16.1	0.3996 ug/L	0.3996 ppb	20:44:40
3	P 214.914†	239.1	16.0	9.6474 ug/L	9.6474 ppb	20:44:40
3	Pb 220.353†	-55.8	7.1	0.8554 ug/L	0.8554 ppb	20:44:40
3	S 181.975 Axial†	46.7	2.3	3.1723 ug/L	3.1723 ppb	20:44:40
3	Sb 206.836†	49.0	15.0	5.0832 ug/L	5.0832 ppb	20:44:40
3	Se 196.026†	-23.0	9.3	5.9376 ug/L	5.9376 ppb	20:44:40
3	Si 251.611†	1020.9	548.3	17.355 ug/L	17.355 ppb	20:44:40
3	Sn 189.927†	2.4	0.7	0.1296 ug/L	0.1296 ppb	20:44:40
3	Ti 334.940†	-1014.1	331.9	0.5380 ug/L	0.5380 ppb	20:44:20
3	Tl 190.801†	-33.1	1.3	0.4089 ug/L	0.4089 ppb	20:44:40
3	U 409.014†	-1762.8	121.7	3.5788 ug/L	3.5788 ppb	20:44:20
3	V 292.402†	-1436.5	-60.0	-0.4034 ug/L	-0.4034 ppb	20:44:20
3	Zn 213.857†	1112.8	475.2	4.4558 ug/L	4.4558 ppb	20:44:40
3	SiO2†	1011.6	540.7	36.468 ug/L	36.468 ppb	20:44:55

Mean Data: 1202006030|937483|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865767.5	100.90 %		0.275			0.27%
Sc Radial	5277.5	103 %		0.8			0.78%
Y 371.029	733300.3	100.77 %		0.134			0.13%
Y RADIAL	5646.8	102.6 %		0.49			0.48%
Ag 328.068†	-34.7	-0.1468 ug/L		0.19394	-0.1468 ppb	0.19394	132.10%
Al 396.153Radial†	0.3	0.2683 ug/L		4.38267	0.2683 ppb	4.38267	>999.9%
As 188.979†	-0.6	-0.2269 ug/L		1.65022	-0.2269 ppb	1.65022	727.21%
B 249.677†	138.2	3.0957 ug/L		0.23262	3.0957 ppb	0.23262	7.51%
Ba 233.527†	17.0	0.1331 ug/L		0.05415	0.1331 ppb	0.05415	40.69%
Be 313.107†	245.8	0.0938 ug/L		0.01421	0.0938 ppb	0.01421	15.15%
Ca 317.933Radial†	14.9	23.987 ug/L		2.3273	23.987 ppb	2.3273	9.70%
Cd 226.502†	23.0	0.2491 ug/L		0.10146	0.2491 ppb	0.10146	40.73%
Co 228.616†	-4.1	-0.0847 ug/L		0.07898	-0.0847 ppb	0.07898	93.24%
Cr 267.716†	34.0	0.3784 ug/L		0.07218	0.3784 ppb	0.07218	19.07%
Cu 324.752†	-80.5	-0.2380 ug/L		0.06037	-0.2380 ppb	0.06037	25.37%
Fe 238.204 Radial†	4.4	37.562 ug/L		9.7439	37.562 ppb	9.7439	25.94%
K 766.490 Radial†	58.7	10.676 ug/L		16.0638	10.676 ppb	16.0638	150.46%

Mg 279.077 IEC†	-0.6	-19.488 ug/L	78.6151	-19.488 ppb	78.6151	403.39%
Mn 257.610†	534.9	0.5912 ug/L	0.02809	0.5912 ppb	0.02809	4.75%
Mo 202.031†	-0.8	-0.0496 ug/L	0.45610	-0.0496 ppb	0.45610	919.54%
Na 589.592 Radial†	18.1	5.1763 ug/L	5.00370	5.1763 ppb	5.00370	96.67%
Ni 231.604†	18.3	0.4521 ug/L	0.08951	0.4521 ppb	0.08951	19.80%
P 214.914†	10.0	6.0659 ug/L	3.24860	6.0659 ppb	3.24860	53.56%
Pb 220.353†	2.3	0.2765 ug/L	0.51576	0.2765 ppb	0.51576	186.56%
S 181.975 Axial†	3.6	4.9617 ug/L	1.55049	4.9617 ppb	1.55049	31.25%
Sb 206.836†	6.9	2.3509 ug/L	2.37858	2.3509 ppb	2.37858	101.18%
Se 196.026†	5.8	3.7399 ug/L	2.31526	3.7399 ppb	2.31526	61.91%
Si 251.611†	549.8	17.405 ug/L	0.0522	17.405 ppb	0.0522	0.30%
Sn 189.927†	3.5	0.6186 ug/L	0.74513	0.6186 ppb	0.74513	120.46%
Sr 421.552†	22.0	0.1402 ug/L	0.11109	0.1402 ppb	0.11109	79.23%
Ti 334.940†	266.6	0.4318 ug/L	0.09207	0.4318 ppb	0.09207	21.32%
Tl 190.801†	-4.1	-1.2171 ug/L	1.43743	-1.2171 ppb	1.43743	118.11%
U 409.014†	-16.2	-0.4830 ug/L	3.82645	-0.4830 ppb	3.82645	792.23%
V 292.402†	4.1	0.0192 ug/L	0.36966	0.0192 ppb	0.36966	>999.9%
Zn 213.857†	480.9	4.5077 ug/L	0.04964	4.5077 ppb	0.04964	1.10%
SiO2†	562.1	37.913 ug/L	1.4082	37.913 ppb	1.4082	3.71%

Sequence No.: 46

Sample ID: 1202006031|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 1/12/2010 20:47:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006031|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5469.5	5469.5	107 %		20:49:20
1	Y RADIAL	6391.7	6391.7	116.1 %		20:49:20
1	Al 396.153Radial†	135633.7	126996.6	101540 ug/L	101540 ppb	20:49:00
1	Ca 317.933Radial†	67577.0	63251.4	102100 ug/L	102100 ppb	20:49:00
1	Fe 238.204 Radial†	24501.4	22928.5	194980 ug/L	194980 ppb	20:49:00
1	K 766.490 Radial†	252344.4	233752.2	42527 ug/L	42527 ppb	20:49:00
1	Mg 279.077 IEC†	1344.8	1256.1	41513 ug/L	41513 ppb	20:49:20
1	Na 589.592 Radial†	37040.2	35988.7	10316 ug/L	10316 ppb	20:49:00
1	Sr 421.552†	387741.6	363023.0	2317.0 ug/L	2317.0 ppb	20:49:00
1	Sc 361.383	878818.7	878818.7	102.42 %		20:50:21
1	Y 371.029	802590.8	802590.8	110.30 %		20:50:21
1	Ag 328.068†	57000.4	55297.7	321.36 ug/L	321.36 ppb	20:50:21
1	As 188.979†	2490.3	2455.4	1147.6 ug/L	1147.6 ppb	20:50:26
1	B 249.677†	71850.8	70769.6	1554.1 ug/L	1554.1 ppb	20:50:21
1	Ba 233.527†	254674.1	248670.3	1935.5 ug/L	1935.5 ppb	20:50:21
1	Be 313.107†	2223788.7	2175764.1	836.08 ug/L	836.08 ppb	20:50:21
1	Cd 226.502†	57198.3	56049.6	597.26 ug/L	597.26 ppb	20:50:26
1	Co 228.616†	47670.4	46622.2	931.34 ug/L	931.34 ppb	20:50:26
1	Cr 267.716†	222170.4	216846.5	2411.6 ug/L	2411.6 ppb	20:50:21
1	Cu 324.752†	664021.7	641943.0	1925.4 ug/L	1925.4 ppb	20:50:21
1	Mn 257.610†	5086833.3	4966313.4	5464.0 ug/L	5464.0 ppb	20:50:21
1	Mo 202.031†	7685.9	7482.8	538.47 ug/L	538.47 ppb	20:50:26
1	Ni 231.604†	55903.9	54517.1	1348.6 ug/L	1348.6 ppb	20:50:26
1	P 214.914†	13926.2	13377.2	7453.1 ug/L	7453.1 ppb	20:50:26
1	Pb 220.353†	7012.4	6909.1	843.19 ug/L	843.19 ppb	20:50:26
1	S 181.975 Axial†	2881.3	2769.5	3835.1 ug/L	3835.1 ppb	20:50:26
1	Sb 206.836†	4802.3	4655.5	1590.4 ug/L	1590.4 ppb	20:50:26
1	Se 196.026†	4016.3	3953.5	3075.5 ug/L	3075.5 ppb	20:50:26
1	Si 251.611†	1049233.3	1024002.3	32410 ug/L	32410 ppb	20:50:21
1	Sn 189.927†	6230.7	6081.9	1079.9 ug/L	1079.9 ppb	20:50:26
1	Ti 334.940†	3949446.0	3857541.6	6186.6 ug/L	6186.6 ppb	20:50:21
1	Tl 190.801†	3939.1	3880.2	1242.1 ug/L	1242.1 ppb	20:50:26
1	U 409.014†	-8403.8	-6341.5	-214.30 ug/L	-214.30 ppb	20:50:21
1	V 292.402†	194721.8	191484.5	1267.2 ug/L	1267.2 ppb	20:50:21
1	Zn 213.857†	647457.5	631547.6	5898.4 ug/L	5898.4 ppb	20:50:21
1	SiO2†	1063598.5	1038030.0	69999 ug/L	69999 ppb	20:51:01
2	Sc Radial	5429.2	5429.2	106 %		20:49:45
2	Y RADIAL	6354.2	6354.2	115.4 %		20:49:45
2	Al 396.153Radial†	137633.1	129825.2	103810 ug/L	103810 ppb	20:49:25
2	Ca 317.933Radial†	68536.6	64626.2	104320 ug/L	104320 ppb	20:49:25
2	Fe 238.204 Radial†	24754.7	23337.7	198460 ug/L	198460 ppb	20:49:25
2	K 766.490 Radial†	255926.3	238884.6	43461 ug/L	43461 ppb	20:49:25
2	Mg 279.077 IEC†	1328.5	1250.0	41308 ug/L	41308 ppb	20:49:45
2	Na 589.592 Radial†	37566.4	36742.4	10532 ug/L	10532 ppb	20:49:25
2	Sr 421.552†	394618.5	372204.4	2375.6 ug/L	2375.6 ppb	20:49:25
2	Sc 361.383	885033.6	885033.6	103.14 %		20:50:36
2	Y 371.029	807721.1	807721.1	111.00 %		20:50:36
2	Ag 328.068†	57470.3	55362.5	322.75 ug/L	322.75 ppb	20:50:36
2	As 188.979†	2486.3	2434.5	1139.6 ug/L	1139.6 ppb	20:50:41
2	B 249.677†	72723.7	71123.4	1561.5 ug/L	1561.5 ppb	20:50:36
2	Ba 233.527†	256055.3	248263.3	1932.5 ug/L	1932.5 ppb	20:50:36
2	Be 313.107†	2240953.3	2177158.6	836.62 ug/L	836.62 ppb	20:50:36
2	Cd 226.502†	56886.3	55354.9	589.25 ug/L	589.25 ppb	20:50:41
2	Co 228.616†	47431.6	46063.9	919.94 ug/L	919.94 ppb	20:50:41
2	Cr 267.716†	223302.0	216420.3	2406.9 ug/L	2406.9 ppb	20:50:36
2	Cu 324.752†	672110.6	645232.8	1935.4 ug/L	1935.4 ppb	20:50:36
2	Mn 257.610†	5123068.8	4966567.7	5464.6 ug/L	5464.6 ppb	20:50:36
2	Mo 202.031†	7685.2	7429.5	535.04 ug/L	535.04 ppb	20:50:41
2	Ni 231.604†	55719.5	53955.0	1334.7 ug/L	1334.7 ppb	20:50:41

2	P 214.914†	13839.6	13197.6	7340.7 ug/L	7340.7 ppb	20:50:41
2	Pb 220.353†	6974.8	6824.5	833.18 ug/L	833.18 ppb	20:50:41
2	S 181.975 Axial†	2913.3	2780.7	3850.3 ug/L	3850.3 ppb	20:50:41
2	Sb 206.836†	4771.6	4592.8	1568.9 ug/L	1568.9 ppb	20:50:41
2	Se 196.026†	3991.7	3902.1	3053.6 ug/L	3053.6 ppb	20:50:41
2	Si 251.611†	1057712.8	1025029.5	32442 ug/L	32442 ppb	20:50:36
2	Sn 189.927†	6232.3	6040.8	1073.2 ug/L	1073.2 ppb	20:50:41
2	Ti 334.940†	3981406.1	3861449.1	6193.2 ug/L	6193.2 ppb	20:50:36
2	Tl 190.801†	3915.1	3829.9	1227.0 ug/L	1227.0 ppb	20:50:41
2	U 409.014†	-8224.4	-6110.0	-207.87 ug/L	-207.87 ppb	20:50:36
2	V 292.402†	196350.0	191728.1	1268.2 ug/L	1268.2 ppb	20:50:36
2	Zn 213.857†	651738.7	631259.2	5895.4 ug/L	5895.4 ppb	20:50:36
2	SiO2†	1069578.7	1036535.5	69899 ug/L	69899 ppb	20:51:07
3	Sc Radial	5454.3	5454.3	107 %		20:50:10
3	Y RADIAL	6388.0	6388.0	116.0 %		20:50:10
3	Al 396.153Radial†	135690.5	127403.1	101870 ug/L	101870 ppb	20:49:50
3	Ca 317.933Radial†	67544.3	63396.7	102340 ug/L	102340 ppb	20:49:50
3	Fe 238.204 Radial†	24371.2	22870.0	194490 ug/L	194490 ppb	20:49:50
3	K 766.490 Radial†	251686.7	233791.8	42534 ug/L	42534 ppb	20:49:50
3	Mg 279.077 IEC†	1331.7	1247.3	41221 ug/L	41221 ppb	20:50:10
3	Na 589.592 Radial†	36840.3	35897.5	10290 ug/L	10290 ppb	20:49:50
3	Sr 421.552†	387692.9	363986.8	2323.1 ug/L	2323.1 ppb	20:49:50
3	Sc 361.383	889801.9	889801.9	103.70 %		20:50:50
3	Y 371.029	812188.5	812188.5	111.62 %		20:50:50
3	Ag 328.068†	57814.4	55395.7	321.64 ug/L	321.64 ppb	20:50:50
3	As 188.979†	2470.2	2406.1	1126.5 ug/L	1126.5 ppb	20:50:55
3	B 249.677†	73114.4	71122.3	1562.1 ug/L	1562.1 ppb	20:50:50
3	Ba 233.527†	258231.6	249031.7	1938.3 ug/L	1938.3 ppb	20:50:50
3	Be 313.107†	2256838.0	2180833.9	838.02 ug/L	838.02 ppb	20:50:50
3	Cd 226.502†	57505.9	55656.9	592.98 ug/L	592.98 ppb	20:50:55
3	Co 228.616†	47810.9	46183.2	922.40 ug/L	922.40 ppb	20:50:55
3	Cr 267.716†	224945.2	216844.7	2411.6 ug/L	2411.6 ppb	20:50:50
3	Cu 324.752†	673933.3	643498.4	1930.0 ug/L	1930.0 ppb	20:50:50
3	Mn 257.610†	5159157.3	4974752.0	5473.2 ug/L	5473.2 ppb	20:50:50
3	Mo 202.031†	7666.7	7371.7	530.68 ug/L	530.68 ppb	20:50:55
3	Ni 231.604†	55952.5	53890.2	1333.0 ug/L	1333.0 ppb	20:50:55
3	P 214.914†	13918.3	13201.6	7347.0 ug/L	7347.0 ppb	20:50:55
3	Pb 220.353†	7060.1	6870.5	838.63 ug/L	838.63 ppb	20:50:55
3	S 181.975 Axial†	2939.3	2790.6	3864.5 ug/L	3864.5 ppb	20:50:55
3	Sb 206.836†	4822.4	4617.0	1576.9 ug/L	1576.9 ppb	20:50:55
3	Se 196.026†	4024.6	3913.1	3048.6 ug/L	3048.6 ppb	20:50:55
3	Si 251.611†	1064352.9	1025937.5	32471 ug/L	32471 ppb	20:50:50
3	Sn 189.927†	6237.0	6012.9	1067.9 ug/L	1067.9 ppb	20:50:55
3	Ti 334.940†	4005465.2	3863964.5	6196.9 ug/L	6196.9 ppb	20:50:50
3	Tl 190.801†	3971.6	3864.0	1237.4 ug/L	1237.4 ppb	20:50:55
3	U 409.014†	-8444.4	-6279.4	-212.41 ug/L	-212.41 ppb	20:50:50
3	V 292.402†	197303.3	191627.2	1268.1 ug/L	1268.1 ppb	20:50:50
3	Zn 213.857†	656652.6	632611.7	5908.5 ug/L	5908.5 ppb	20:50:50
3	SiO2†	1067892.5	1029352.4	69414 ug/L	69414 ppb	20:51:13

Mean Data: 1202006031|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	884551.4	103.09 %	0.642			0.62%
Sc Radial	5451.0	106 %	0.4			0.37%
Y 371.029	807500.2	110.97 %	0.660			0.59%
Y RADIAL	6377.9	115.8 %	0.38			0.32%
Ag 328.068†	55351.9	321.92 ug/L	0.737	321.92 ppb	0.737	0.23%
Al 396.153Radial†	128074.9	102410 ug/L	1223.1	102410 ppb	1223.1	1.19%
As 188.979†	2432.0	1137.9 ug/L	10.65	1137.9 ppb	10.65	0.94%
B 249.677†	71005.1	1559.2 ug/L	4.46	1559.2 ppb	4.46	0.29%
Ba 233.527†	248655.1	1935.5 ug/L	2.92	1935.5 ppb	2.92	0.15%
Be 313.107†	2177918.9	836.91 ug/L	1.000	836.91 ppb	1.000	0.12%
Ca 317.933Radial†	63758.1	102920 ug/L	1219.3	102920 ppb	1219.3	1.18%
Cd 226.502†	55687.1	593.16 ug/L	4.007	593.16 ppb	4.007	0.68%
Co 228.616†	46289.8	924.56 ug/L	5.999	924.56 ppb	5.999	0.65%
Cr 267.716†	216703.8	2410.0 ug/L	2.68	2410.0 ppb	2.68	0.11%
Cu 324.752†	643558.1	1930.3 ug/L	5.00	1930.3 ppb	5.00	0.26%
Fe 238.204 Radial†	23045.4	195980 ug/L	2166.7	195980 ppb	2166.7	1.11%
K 766.490 Radial†	235476.2	42841 ug/L	537.1	42841 ppb	537.1	1.25%

Mg 279.077 IEC†	1251.1	41347 ug/L	149.6	41347 ppb	149.6	0.36%
Mn 257.610†	4969211.0	5467.2 ug/L	5.15	5467.2 ppb	5.15	0.09%
Mo 202.031†	7428.0	534.73 ug/L	3.906	534.73 ppb	3.906	0.73%
Na 589.592 Radial†	36209.5	10379 ug/L	132.9	10379 ppb	132.9	1.28%
Ni 231.604†	54120.8	1338.8 ug/L	8.53	1338.8 ppb	8.53	0.64%
P 214.914†	13258.8	7380.3 ug/L	63.16	7380.3 ppb	63.16	0.86%
Pb 220.353†	6868.1	838.33 ug/L	5.011	838.33 ppb	5.011	0.60%
S 181.975 Axial†	2780.3	3849.9 ug/L	14.71	3849.9 ppb	14.71	0.38%
Sb 206.836†	4621.8	1578.7 ug/L	10.86	1578.7 ppb	10.86	0.69%
Se 196.026†	3922.9	3059.2 ug/L	14.34	3059.2 ppb	14.34	0.47%
Si 251.611†	1024989.8	32441 ug/L	30.7	32441 ppb	30.7	0.09%
Sn 189.927†	6045.2	1073.7 ug/L	6.01	1073.7 ppb	6.01	0.56%
Sr 421.552†	366404.7	2338.6 ug/L	32.21	2338.6 ppb	32.21	1.38%
Ti 334.940†	3860985.1	6192.2 ug/L	5.23	6192.2 ppb	5.23	0.08%
Tl 190.801†	3858.0	1235.5 ug/L	7.71	1235.5 ppb	7.71	0.62%
U 409.014†	-6243.6	-211.52 ug/L	3.306	-211.52 ppb	3.306	1.56%
V 292.402†	191613.3	1267.8 ug/L	0.57	1267.8 ppb	0.57	0.04%
Zn 213.857†	631806.2	5900.8 ug/L	6.87	5900.8 ppb	6.87	0.12%
SiO2†	1034639.3	69771 ug/L	312.8	69771 ppb	312.8	0.45%

Sequence No.: 47

Sample ID: 243626001|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 1/12/2010 20:53:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626001|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5348.6	5348.6	104 %		20:55:37
1	Y RADIAL	6372.9	6372.9	115.8 %		20:55:37
1	Al 396.153Radial†	180009.7	172353.7	137840 ug/L	137840 ppb	20:55:17
1	Ca 317.933Radial†	13524.6	12929.8	20872 ug/L	20872 ppb	20:55:17
1	Fe 238.204 Radial†	17542.2	16783.9	142720 ug/L	142720 ppb	20:55:17
1	K 766.490 Radial†	115825.4	108383.7	19723 ug/L	19723 ppb	20:55:17
1	Mg 279.077 IEC†	667.6	636.1	20975 ug/L	20975 ppb	20:55:37
1	Na 589.592 Radial†	1786.7	3019.6	865.56 ug/L	865.56 ppb	20:55:17
1	Sr 421.552†	45117.6	43187.4	275.58 ug/L	275.58 ppb	20:55:17
1	Sc 361.383	855508.4	855508.4	99.701 %		20:56:48
1	Y 371.029	795205.9	795205.9	109.28 %		20:56:48
1	Ag 328.068†	-8706.3	-9089.4	5.9861 ug/L	5.9861 ppb	20:56:48
1	As 188.979†	-91.3	-67.7	59.544 ug/L	59.544 ppb	20:57:08
1	B 249.677†	1817.5	2438.0	30.932 ug/L	30.932 ppb	20:56:48
1	Ba 233.527†	457279.2	458657.8	3558.9 ug/L	3558.9 ppb	20:56:48
1	Be 313.107†	-11296.2	-6855.4	11.837 ug/L	11.837 ppb	20:56:48
1	Cd 226.502†	1370.5	1576.2	2.7502 ug/L	2.7502 ppb	20:57:08
1	Co 228.616†	10504.0	10612.7	201.43 ug/L	201.43 ppb	20:57:08
1	Cr 267.716†	52864.7	52944.1	590.76 ug/L	590.76 ppb	20:56:48
1	Cu 324.752†	28503.9	22186.9	73.883 ug/L	73.883 ppb	20:56:48
1	Mn 257.610†	16207678.9	16255808.1	17840 ug/L	17840 ppb	20:56:36
1	Mo 202.031†	56.4	34.9	13.765 ug/L	13.765 ppb	20:57:08
1	Ni 231.604†	12898.3	12869.9	318.36 ug/L	318.36 ppb	20:57:08
1	P 214.914†	2182.4	1968.6	1085.3 ug/L	1085.3 ppb	20:57:08
1	Pb 220.353†	1433.7	1500.2	200.34 ug/L	200.34 ppb	20:57:08
1	S 181.975 Axial†	584.0	541.9	728.34 ug/L	728.34 ppb	20:57:08
1	Sb 206.836†	122.3	89.2	8.1223 ug/L	8.1223 ppb	20:57:08
1	Se 196.026†	-707.8	-677.9	4.0364 ug/L	4.0364 ppb	20:57:08
1	Si 251.611†	725023.6	726735.1	23006 ug/L	23006 ppb	20:56:42
1	Sn 189.927†	-116.9	-118.9	-14.812 ug/L	-14.812 ppb	20:57:08
1	Ti 334.940†	3955417.0	3968601.7	6355.8 ug/L	6355.8 ppb	20:56:42
1	Tl 190.801†	-502.2	-469.6	-5.4265 ug/L	-5.4265 ppb	20:57:08
1	U 409.014†	-10607.0	-8774.9	-275.91 ug/L	-275.91 ppb	20:56:48
1	V 292.402†	48485.7	49990.7	308.72 ug/L	308.72 ppb	20:56:48
1	Zn 213.857†	31476.3	30945.9	274.54 ug/L	274.54 ppb	20:56:48
1	SiO2†	721141.0	722842.5	48755 ug/L	48755 ppb	20:58:33
2	Sc Radial	5396.1	5396.1	105 %		20:56:02
2	Y RADIAL	6416.9	6416.9	116.6 %		20:56:02
2	Al 396.153Radial†	183722.3	174360.5	139450 ug/L	139450 ppb	20:55:42
2	Ca 317.933Radial†	13739.0	13019.2	21016 ug/L	21016 ppb	20:55:42
2	Fe 238.204 Radial†	17819.4	16899.2	143700 ug/L	143700 ppb	20:55:42
2	K 766.490 Radial†	117892.6	109369.8	19903 ug/L	19903 ppb	20:55:42
2	Mg 279.077 IEC†	675.2	637.8	21028 ug/L	21028 ppb	20:56:02
2	Na 589.592 Radial†	1815.2	3031.5	868.99 ug/L	868.99 ppb	20:55:42
2	Sr 421.552†	45832.9	43486.1	277.48 ug/L	277.48 ppb	20:55:42
2	Sc 361.383	869653.6	869653.6	101.35 %		20:57:27
2	Y 371.029	805204.3	805204.3	110.66 %		20:57:27
2	Ag 328.068†	-8851.4	-9090.6	6.2988 ug/L	6.2988 ppb	20:57:27
2	As 188.979†	-95.8	-70.6	57.326 ug/L	57.326 ppb	20:57:47
2	B 249.677†	1848.9	2439.4	30.814 ug/L	30.814 ppb	20:57:27
2	Ba 233.527†	465490.5	459299.7	3563.9 ug/L	3563.9 ppb	20:57:27
2	Be 313.107†	-11585.2	-6956.3	11.484 ug/L	11.484 ppb	20:57:27
2	Cd 226.502†	1379.2	1562.5	2.4951 ug/L	2.4951 ppb	20:57:47
2	Co 228.616†	10481.2	10418.9	197.77 ug/L	197.77 ppb	20:57:47
2	Cr 267.716†	53760.0	52965.1	591.02 ug/L	591.02 ppb	20:57:27
2	Cu 324.752†	29103.7	22313.7	74.312 ug/L	74.312 ppb	20:57:27
2	Mn 257.610†	16122613.8	15907463.3	17459 ug/L	17459 ppb	20:57:16
2	Mo 202.031†	57.9	35.5	13.880 ug/L	13.880 ppb	20:57:47
2	Ni 231.604†	12890.6	12651.9	312.97 ug/L	312.97 ppb	20:57:47

2	P 214.914†	2188.9	1939.4	1067.4 ug/L	1067.4 ppb	20:57:47
2	Pb 220.353†	1415.8	1459.2	195.65 ug/L	195.65 ppb	20:57:47
2	S 181.975 Axial†	585.9	534.2	717.34 ug/L	717.34 ppb	20:57:47
2	Sb 206.836†	124.9	89.8	8.8294 ug/L	8.8294 ppb	20:57:47
2	Se 196.026†	-701.5	-660.1	18.243 ug/L	18.243 ppb	20:57:47
2	Si 251.611†	721544.6	711474.5	22523 ug/L	22523 ppb	20:57:22
2	Sn 189.927†	-92.4	-92.9	-10.230 ug/L	-10.230 ppb	20:57:47
2	Ti 334.940†	3932938.2	3881893.6	6216.9 ug/L	6216.9 ppb	20:57:22
2	Tl 190.801†	-506.3	-465.5	-7.1435 ug/L	-7.1435 ppb	20:57:47
2	U 409.014†	-10690.2	-8684.0	-273.34 ug/L	-273.34 ppb	20:57:27
2	V 292.402†	49443.0	50144.3	309.76 ug/L	309.76 ppb	20:57:27
2	Zn 213.857†	32027.1	30975.9	274.76 ug/L	274.76 ppb	20:57:27
2	SiO2†	717683.3	707666.1	47731 ug/L	47731 ppb	20:58:38
3	Sc Radial	5328.5	5328.5	104 %		20:56:27
3	Y RADIAL	6338.9	6338.9	115.1 %		20:56:27
3	Al 396.153Radial†	184746.1	177555.1	142000 ug/L	142000 ppb	20:56:07
3	Ca 317.933Radial†	13863.4	13304.1	21476 ug/L	21476 ppb	20:56:07
3	Fe 238.204 Radial†	17894.2	17185.5	146130 ug/L	146130 ppb	20:56:07
3	K 766.490 Radial†	118630.5	111497.4	20290 ug/L	20290 ppb	20:56:07
3	Mg 279.077 IEC†	665.9	636.9	20997 ug/L	20997 ppb	20:56:27
3	Na 589.592 Radial†	1790.9	3030.1	868.57 ug/L	868.57 ppb	20:56:07
3	Sr 421.552†	46174.4	44365.8	283.09 ug/L	283.09 ppb	20:56:07
3	Sc 361.383	866950.4	866950.4	101.03 %		20:58:06
3	Y 371.029	802814.3	802814.3	110.33 %		20:58:06
3	Ag 328.068†	-8904.6	-9170.5	6.7128 ug/L	6.7128 ppb	20:58:06
3	As 188.979†	-85.5	-60.6	62.288 ug/L	62.288 ppb	20:58:26
3	B 249.677†	1889.4	2485.1	31.445 ug/L	31.445 ppb	20:58:06
3	Ba 233.527†	463493.2	458755.0	3559.7 ug/L	3559.7 ppb	20:58:06
3	Be 313.107†	-11368.9	-6777.8	11.588 ug/L	11.588 ppb	20:58:06
3	Cd 226.502†	1351.6	1539.4	1.9886 ug/L	1.9886 ppb	20:58:26
3	Co 228.616†	10452.8	10423.0	197.78 ug/L	197.78 ppb	20:58:26
3	Cr 267.716†	53655.2	53026.7	591.75 ug/L	591.75 ppb	20:58:06
3	Cu 324.752†	29044.4	22344.5	74.533 ug/L	74.533 ppb	20:58:06
3	Mn 257.610†	16289343.4	16122086.0	17694 ug/L	17694 ppb	20:57:55
3	Mo 202.031†	58.3	36.1	14.116 ug/L	14.116 ppb	20:58:26
3	Ni 231.604†	12794.6	12596.5	311.60 ug/L	311.60 ppb	20:58:26
3	P 214.914†	2151.6	1909.3	1047.9 ug/L	1047.9 ppb	20:58:26
3	Pb 220.353†	1404.4	1452.2	195.18 ug/L	195.18 ppb	20:58:26
3	S 181.975 Axial†	574.8	525.0	704.03 ug/L	704.03 ppb	20:58:26
3	Sb 206.836†	138.0	103.1	13.157 ug/L	13.157 ppb	20:58:26
3	Se 196.026†	-704.9	-665.6	22.114 ug/L	22.114 ppb	20:58:26
3	Si 251.611†	720938.0	713093.8	22574 ug/L	22574 ppb	20:58:01
3	Sn 189.927†	-125.0	-125.3	-15.770 ug/L	-15.770 ppb	20:58:26
3	Ti 334.940†	3931011.1	3892085.8	6233.3 ug/L	6233.3 ppb	20:58:01
3	Tl 190.801†	-504.4	-465.1	-5.7739 ug/L	-5.7739 ppb	20:58:26
3	U 409.014†	-10651.6	-8678.7	-273.46 ug/L	-273.46 ppb	20:58:06
3	V 292.402†	49243.6	50099.0	309.04 ug/L	309.04 ppb	20:58:06
3	Zn 213.857†	31962.5	31010.5	274.85 ug/L	274.85 ppb	20:58:06
3	SiO2†	723419.7	715551.7	48263 ug/L	48263 ppb	20:58:44

Mean Data: 243626001|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864037.5	100.70 %	0.875			0.87%
Sc Radial	5357.7	105 %	0.7			0.65%
Y 371.029	801074.8	110.09 %	0.718			0.65%
Y RADIAL	6376.2	115.8 %	0.71			0.61%
Ag 328.068†	-9116.8	6.3326 ug/L	0.36453	6.3326 ppb	0.36453	5.76%
Al 396.153Radial†	174756.4	139770 ug/L	2098.0	139770 ppb	2098.0	1.50%
As 188.979†	-66.3	59.720 ug/L	2.4854	59.720 ppb	2.4854	4.16%
B 249.677†	2454.2	31.064 ug/L	0.3356	31.064 ppb	0.3356	1.08%
Ba 233.527†	458904.1	3560.8 ug/L	2.68	3560.8 ppb	2.68	0.08%
Be 313.107†	-6863.2	11.636 ug/L	0.1815	11.636 ppb	0.1815	1.56%
Ca 317.933Radial†	13084.4	21122 ug/L	315.6	21122 ppb	315.6	1.49%
Cd 226.502†	1559.4	2.4113 ug/L	0.38763	2.4113 ppb	0.38763	16.08%
Co 228.616†	10484.9	198.99 ug/L	2.106	198.99 ppb	2.106	1.06%
Cr 267.716†	52978.6	591.18 ug/L	0.510	591.18 ppb	0.510	0.09%
Cu 324.752†	22281.7	74.243 ug/L	0.3301	74.243 ppb	0.3301	0.44%
Fe 238.204 Radial†	16956.2	144180 ug/L	1758.0	144180 ppb	1758.0	1.22%
K 766.490 Radial†	109750.3	19972 ug/L	289.7	19972 ppb	289.7	1.45%

Mg 279.077 IEC†	636.9	21000 ug/L	26.7	21000 ppb	26.7	0.13%
Mn 257.610†	16095119.2	17664 ug/L	192.7	17664 ppb	192.7	1.09%
Mo 202.031†	35.5	13.921 ug/L	0.1789	13.921 ppb	0.1789	1.28%
Na 589.592 Radial†	3027.1	867.71 ug/L	1.872	867.71 ppb	1.872	0.22%
Ni 231.604†	12706.1	314.31 ug/L	3.575	314.31 ppb	3.575	1.14%
P 214.914†	1939.1	1066.8 ug/L	18.73	1066.8 ppb	18.73	1.76%
Pb 220.353†	1470.5	197.06 ug/L	2.853	197.06 ppb	2.853	1.45%
S 181.975 Axial†	533.7	716.57 ug/L	12.174	716.57 ppb	12.174	1.70%
Sb 206.836†	94.0	10.036 ug/L	2.7259	10.036 ppb	2.7259	27.16%
Se 196.026†	-667.9	14.798 ug/L	9.5184	14.798 ppb	9.5184	64.32%
Si 251.611†	717101.1	22701 ug/L	265.4	22701 ppb	265.4	1.17%
Sn 189.927†	-112.4	-13.604 ug/L	2.9610	-13.604 ppb	2.9610	21.77%
Sr 421.552†	43679.8	278.72 ug/L	3.909	278.72 ppb	3.909	1.40%
Ti 334.940†	3914193.7	6268.7 ug/L	75.87	6268.7 ppb	75.87	1.21%
Tl 190.801†	-466.7	-6.1146 ug/L	0.90782	-6.1146 ppb	0.90782	14.85%
U 409.014†	-8712.5	-274.24 ug/L	1.447	-274.24 ppb	1.447	0.53%
V 292.402†	50078.0	309.17 ug/L	0.531	309.17 ppb	0.531	0.17%
Zn 213.857†	30977.4	274.71 ug/L	0.162	274.71 ppb	0.162	0.06%
SiO2†	715353.5	48249 ug/L	511.9	48249 ppb	511.9	1.06%

Sequence No.: 48

Sample ID: 1202006032|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 1/12/2010 21:00:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006032|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5347.8	5347.8	104 %		21:03:09
1	Y RADIAL	6320.4	6320.4	114.8 %		21:03:09
1	Al 396.153Radial†	180884.1	173216.6	138530 ug/L	138530 ppb	21:02:49
1	Ca 317.933Radial†	13698.2	13097.8	21143 ug/L	21143 ppb	21:02:49
1	Fe 238.204 Radial†	16738.0	16016.3	136190 ug/L	136190 ppb	21:02:49
1	K 766.490 Radial†	112937.8	105635.1	19228 ug/L	19228 ppb	21:02:49
1	Mg 279.077 IEC†	638.8	608.7	20070 ug/L	20070 ppb	21:03:09
1	Na 589.592 Radial†	1728.1	2963.6	849.53 ug/L	849.53 ppb	21:02:49
1	Sr 421.552†	42798.6	40973.2	261.44 ug/L	261.44 ppb	21:02:49
1	Sc 361.383	855374.8	855374.8	99.686 %		21:04:13
1	Y 371.029	804634.2	804634.2	110.58 %		21:04:13
1	Ag 328.068†	-8911.1	-9296.3	2.7102 ug/L	2.7102 ppb	21:04:13
1	As 188.979†	-124.3	-100.8	46.291 ug/L	46.291 ppb	21:04:33
1	B 249.677†	1456.4	2076.1	24.243 ug/L	24.243 ppb	21:04:13
1	Ba 233.527†	255612.7	256427.2	1991.7 ug/L	1991.7 ppb	21:04:13
1	Be 313.107†	-16048.5	-11624.5	10.666 ug/L	10.666 ppb	21:04:13
1	Cd 226.502†	1169.6	1374.9	1.1697 ug/L	1.1697 ppb	21:04:33
1	Co 228.616†	4048.3	4138.3	68.868 ug/L	68.868 ppb	21:04:33
1	Cr 267.716†	39186.5	39231.1	438.42 ug/L	438.42 ppb	21:04:13
1	Cu 324.752†	27869.1	21554.6	71.611 ug/L	71.611 ppb	21:04:13
1	Mn 257.610†	3953401.7	3965435.7	4361.4 ug/L	4361.4 ppb	21:04:07
1	Mo 202.031†	2.5	-19.1	9.4900 ug/L	9.4900 ppb	21:04:33
1	Ni 231.604†	9427.5	9390.2	232.33 ug/L	232.33 ppb	21:04:33
1	P 214.914†	1845.4	1630.9	888.48 ug/L	888.48 ppb	21:04:33
1	Pb 220.353†	914.8	979.9	138.16 ug/L	138.16 ppb	21:04:33
1	S 181.975 Axial†	528.9	486.7	651.34 ug/L	651.34 ppb	21:04:33
1	Sb 206.836†	108.8	75.7	2.2771 ug/L	2.2771 ppb	21:04:33
1	Se 196.026†	-673.0	-643.0	6.6273 ug/L	6.6273 ppb	21:04:33
1	Si 251.611†	813273.6	815377.0	25812 ug/L	25812 ppb	21:04:07
1	Sn 189.927†	-119.4	-121.5	-15.320 ug/L	-15.320 ppb	21:04:33
1	Ti 334.940†	4127856.7	4142204.7	6633.9 ug/L	6633.9 ppb	21:04:07
1	Tl 190.801†	-276.6	-243.3	1.4113 ug/L	1.4113 ppb	21:04:33
1	U 409.014†	-8103.9	-6265.5	-200.95 ug/L	-200.95 ppb	21:04:13
1	V 292.402†	43603.1	45100.3	276.46 ug/L	276.46 ppb	21:04:13
1	Zn 213.857†	28834.7	28301.0	250.89 ug/L	250.89 ppb	21:04:33
1	SiO2†	822261.8	824395.1	55604 ug/L	55604 ppb	21:05:42
2	Sc Radial	5402.9	5402.9	106 %		21:03:34
2	Y RADIAL	6386.5	6386.5	116.0 %		21:03:34
2	Al 396.153Radial†	183038.6	173491.7	138750 ug/L	138750 ppb	21:03:14
2	Ca 317.933Radial†	13791.6	13052.6	21070 ug/L	21070 ppb	21:03:14
2	Fe 238.204 Radial†	16884.4	15991.6	135980 ug/L	135980 ppb	21:03:14
2	K 766.490 Radial†	114242.2	105768.2	19252 ug/L	19252 ppb	21:03:14
2	Mg 279.077 IEC†	637.1	600.8	19810 ug/L	19810 ppb	21:03:34
2	Na 589.592 Radial†	1795.3	3010.5	862.96 ug/L	862.96 ppb	21:03:14
2	Sr 421.552†	43168.2	40905.4	261.00 ug/L	261.00 ppb	21:03:14
2	Sc 361.383	856749.1	856749.1	99.846 %		21:04:44
2	Y 371.029	802993.5	802993.5	110.35 %		21:04:44
2	Ag 328.068†	-8792.6	-9163.2	3.2542 ug/L	3.2542 ppb	21:04:44
2	As 188.979†	-120.5	-96.8	48.915 ug/L	48.915 ppb	21:05:04
2	B 249.677†	1514.9	2132.4	25.542 ug/L	25.542 ppb	21:04:44
2	Ba 233.527†	256051.3	256455.1	1991.9 ug/L	1991.9 ppb	21:04:44
2	Be 313.107†	-16037.9	-11588.1	10.933 ug/L	10.933 ppb	21:04:44
2	Cd 226.502†	1143.8	1347.2	0.8857 ug/L	0.8857 ppb	21:05:04
2	Co 228.616†	4029.2	4112.7	68.120 ug/L	68.120 ppb	21:05:04
2	Cr 267.716†	39240.2	39221.8	438.31 ug/L	438.31 ppb	21:04:44
2	Cu 324.752†	27924.3	21565.0	71.632 ug/L	71.632 ppb	21:04:44
2	Mn 257.610†	4017169.1	4022940.1	4424.4 ug/L	4424.4 ppb	21:04:39
2	Mo 202.031†	16.7	-4.9	10.461 ug/L	10.461 ppb	21:05:04
2	Ni 231.604†	9385.3	9332.8	230.91 ug/L	230.91 ppb	21:05:04

2	P 214.914†	1833.1	1615.6	879.47 ug/L	879.47 ppb	21:05:04
2	Pb 220.353†	896.6	960.2	135.85 ug/L	135.85 ppb	21:05:04
2	S 181.975 Axial†	532.8	489.8	655.56 ug/L	655.56 ppb	21:05:04
2	Sb 206.836†	108.2	74.9	1.6355 ug/L	1.6355 ppb	21:05:04
2	Se 196.026†	-667.1	-636.1	10.406 ug/L	10.406 ppb	21:05:04
2	Si 251.611†	828114.6	828932.3	26241 ug/L	26241 ppb	21:04:39
2	Sn 189.927†	-128.8	-130.7	-16.941 ug/L	-16.941 ppb	21:05:04
2	Ti 334.940†	4204040.3	4211863.8	6745.4 ug/L	6745.4 ppb	21:04:39
2	Tl 190.801†	-284.0	-250.4	0.5158 ug/L	0.5158 ppb	21:05:04
2	U 409.014†	-8218.2	-6367.0	-203.91 ug/L	-203.91 ppb	21:04:44
2	V 292.402†	43616.5	45043.6	275.99 ug/L	275.99 ppb	21:04:44
2	Zn 213.857†	28715.2	28134.9	249.36 ug/L	249.36 ppb	21:05:04
2	SiO2†	821307.4	822116.2	55451 ug/L	55451 ppb	21:05:48
3	Sc Radial	5344.2	5344.2	104 %		21:04:00
3	Y RADIAL	6352.5	6352.5	115.4 %		21:04:00
3	Al 396.153Radial†	183286.0	175635.3	140470 ug/L	140470 ppb	21:03:40
3	Ca 317.933Radial†	13863.1	13264.8	21413 ug/L	21413 ppb	21:03:40
3	Fe 238.204 Radial†	16899.6	16182.0	137600 ug/L	137600 ppb	21:03:40
3	K 766.490 Radial†	114421.3	107129.7	19500 ug/L	19500 ppb	21:03:40
3	Mg 279.077 IEC†	640.7	610.9	20143 ug/L	20143 ppb	21:04:00
3	Na 589.592 Radial†	1762.1	2997.4	859.20 ug/L	859.20 ppb	21:03:40
3	Sr 421.552†	43170.2	41357.0	263.89 ug/L	263.89 ppb	21:03:40
3	Sc 361.383	859436.9	859436.9	100.16 %		21:05:16
3	Y 371.029	807172.2	807172.2	110.93 %		21:05:16
3	Ag 328.068†	-8923.3	-9266.2	3.2983 ug/L	3.2983 ppb	21:05:16
3	As 188.979†	-114.6	-90.5	51.371 ug/L	51.371 ppb	21:05:36
3	B 249.677†	1530.3	2143.0	25.517 ug/L	25.517 ppb	21:05:16
3	Ba 233.527†	256941.2	256541.6	1992.6 ug/L	1992.6 ppb	21:05:16
3	Be 313.107†	-16174.7	-11674.4	10.743 ug/L	10.743 ppb	21:05:16
3	Cd 226.502†	1171.5	1371.2	0.9838 ug/L	0.9838 ppb	21:05:36
3	Co 228.616†	4045.4	4116.2	68.314 ug/L	68.314 ppb	21:05:36
3	Cr 267.716†	39349.3	39207.8	438.18 ug/L	438.18 ppb	21:05:16
3	Cu 324.752†	28112.5	21665.4	72.014 ug/L	72.014 ppb	21:05:16
3	Mn 257.610†	3988740.7	3981974.0	4379.7 ug/L	4379.7 ppb	21:05:11
3	Mo 202.031†	8.0	-13.7	9.9809 ug/L	9.9809 ppb	21:05:36
3	Ni 231.604†	9438.3	9356.2	231.49 ug/L	231.49 ppb	21:05:36
3	P 214.914†	1837.5	1614.3	877.74 ug/L	877.74 ppb	21:05:36
3	Pb 220.353†	913.5	974.2	137.80 ug/L	137.80 ppb	21:05:36
3	S 181.975 Axial†	534.0	489.3	654.63 ug/L	654.63 ppb	21:05:36
3	Sb 206.836†	107.4	73.8	1.4551 ug/L	1.4551 ppb	21:05:36
3	Se 196.026†	-687.7	-654.5	3.6682 ug/L	3.6682 ppb	21:05:36
3	Si 251.611†	821752.8	819986.6	25958 ug/L	25958 ppb	21:05:11
3	Sn 189.927†	-125.4	-126.9	-16.189 ug/L	-16.189 ppb	21:05:36
3	Ti 334.940†	4173757.4	4168460.8	6676.0 ug/L	6676.0 ppb	21:05:11
3	Tl 190.801†	-293.4	-258.9	-2.8345 ug/L	-2.8345 ppb	21:05:36
3	U 409.014†	-8045.9	-6169.2	-198.27 ug/L	-198.27 ppb	21:05:16
3	V 292.402†	43797.3	45087.5	276.11 ug/L	276.11 ppb	21:05:16
3	Zn 213.857†	28904.0	28233.5	250.13 ug/L	250.13 ppb	21:05:36
3	SiO2†	823671.4	821903.8	55436 ug/L	55436 ppb	21:05:54

Mean Data: 1202006032|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857186.9	99.897 %	0.2408			0.24%
Sc Radial	5365.0	105 %	0.6			0.61%
Y 371.029	804933.3	110.62 %	0.289			0.26%
Y RADIAL	6353.1	115.4 %	0.60			0.52%
Ag 328.068†	-9241.9	3.0876 ug/L	0.32753	3.0876 ppb	0.32753	10.61%
Al 396.153Radial†	174114.5	139250 ug/L	1059.1	139250 ppb	1059.1	0.76%
As 188.979†	-96.0	48.859 ug/L	2.5407	48.859 ppb	2.5407	5.20%
B 249.677†	2117.2	25.101 ug/L	0.7426	25.101 ppb	0.7426	2.96%
Ba 233.527†	256474.6	1992.0 ug/L	0.49	1992.0 ppb	0.49	0.02%
Be 313.107†	-11629.0	10.781 ug/L	0.1375	10.781 ppb	0.1375	1.28%
Ca 317.933Radial†	13138.4	21209 ug/L	180.4	21209 ppb	180.4	0.85%
Cd 226.502†	1364.5	1.0130 ug/L	0.14427	1.0130 ppb	0.14427	14.24%
Co 228.616†	4122.4	68.434 ug/L	0.3880	68.434 ppb	0.3880	0.57%
Cr 267.716†	39220.2	438.30 ug/L	0.116	438.30 ppb	0.116	0.03%
Cu 324.752†	21595.0	71.752 ug/L	0.2271	71.752 ppb	0.2271	0.32%
Fe 238.204 Radial†	16063.3	136590 ug/L	880.5	136590 ppb	880.5	0.64%
K 766.490 Radial†	106177.7	19327 ug/L	150.6	19327 ppb	150.6	0.78%

Mg 279.077 IEC†	606.8	20008 ug/L	175.4	20008 ppb	175.4	0.88%
Mn 257.610†	3990116.6	4388.5 ug/L	32.44	4388.5 ppb	32.44	0.74%
Mo 202.031†	-12.6	9.9773 ug/L	0.48558	9.9773 ppb	0.48558	4.87%
Na 589.592 Radial†	2990.5	857.23 ug/L	6.930	857.23 ppb	6.930	0.81%
Ni 231.604†	9359.7	231.57 ug/L	0.714	231.57 ppb	0.714	0.31%
P 214.914†	1620.3	881.90 ug/L	5.768	881.90 ppb	5.768	0.65%
Pb 220.353†	971.4	137.27 ug/L	1.242	137.27 ppb	1.242	0.90%
S 181.975 Axial†	488.6	653.84 ug/L	2.219	653.84 ppb	2.219	0.34%
Sb 206.836†	74.8	1.7892 ug/L	0.43200	1.7892 ppb	0.43200	24.14%
Se 196.026†	-644.6	6.9005 ug/L	3.37726	6.9005 ppb	3.37726	48.94%
Si 251.611†	821431.9	26004 ug/L	218.2	26004 ppb	218.2	0.84%
Sn 189.927†	-126.3	-16.150 ug/L	0.8113	-16.150 ppb	0.8113	5.02%
Sr 421.552†	41078.5	262.11 ug/L	1.553	262.11 ppb	1.553	0.59%
Ti 334.940†	4174176.4	6685.1 ug/L	56.34	6685.1 ppb	56.34	0.84%
Tl 190.801†	-250.9	-0.3024 ug/L	2.23804	-0.3024 ppb	2.23804	739.97%
U 409.014†	-6267.2	-201.04 ug/L	2.820	-201.04 ppb	2.820	1.40%
V 292.402†	45077.1	276.19 ug/L	0.242	276.19 ppb	0.242	0.09%
Zn 213.857†	28223.1	250.13 ug/L	0.765	250.13 ppb	0.765	0.31%
SiO2†	822805.0	55497 ug/L	93.2	55497 ppb	93.2	0.17%

Sequence No.: 49

Sample ID: 1202006033|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 73

Date Collected: 1/12/2010 21:08:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006033|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5266.2	5266.2	103 %		21:10:18
1	Y RADIAL	6243.8	6243.8	113.4 %		21:10:18
1	Al 396.153Radial†	284713.6	276867.3	221410 ug/L	221410 ppb	21:09:58
1	Ca 317.933Radial†	16932.7	16446.5	26549 ug/L	26549 ppb	21:10:18
1	Fe 238.204 Radial†	19718.9	19163.5	162960 ug/L	162960 ppb	21:09:58
1	K 766.490 Radial†	163202.4	156189.7	28429 ug/L	28429 ppb	21:09:58
1	Mg 279.077 IEC†	923.5	895.0	29554 ug/L	29554 ppb	21:10:18
1	Na 589.592 Radial†	21441.9	22159.4	6352.0 ug/L	6352.0 ppb	21:09:58
1	Sr 421.552†	128155.6	124611.2	795.39 ug/L	795.39 ppb	21:09:58
1	Sc 361.383	856086.7	856086.7	99.769 %		21:11:22
1	Y 371.029	786750.4	786750.4	108.12 %		21:11:22
1	Ag 328.068†	102562.3	102443.1	525.68 ug/L	525.68 ppb	21:11:22
1	As 188.979†	1025.5	1051.8	551.91 ug/L	551.91 ppb	21:11:42
1	B 249.677†	24026.5	24697.4	526.27 ug/L	526.27 ppb	21:11:22
1	Ba 233.527†	338157.1	338949.7	2633.0 ug/L	2633.0 ppb	21:11:22
1	Be 313.107†	1387666.9	1395358.8	544.29 ug/L	544.29 ppb	21:11:17
1	Cd 226.502†	45964.4	46272.6	492.71 ug/L	492.71 ppb	21:11:22
1	Co 228.616†	27561.9	27703.1	545.96 ug/L	545.96 ppb	21:11:42
1	Cr 267.716†	85309.4	85428.3	952.02 ug/L	952.02 ppb	21:11:22
1	Cu 324.752†	211553.8	205641.9	621.90 ug/L	621.90 ppb	21:11:22
1	Mn 257.610†	4388365.9	4398110.4	4838.2 ug/L	4838.2 ppb	21:11:17
1	Mo 202.031†	6889.1	6883.5	493.26 ug/L	493.26 ppb	21:11:42
1	Ni 231.604†	28608.4	28607.7	707.61 ug/L	707.61 ppb	21:11:42
1	P 214.914†	2941.1	2727.6	1419.9 ug/L	1419.9 ppb	21:11:42
1	Pb 220.353†	4812.1	4885.4	628.47 ug/L	628.47 ppb	21:11:42
1	S 181.975 Axial†	4209.1	4175.0	5768.6 ug/L	5768.6 ppb	21:11:42
1	Sb 206.836†	1389.6	1359.4	451.98 ug/L	451.98 ppb	21:11:42
1	Se 196.026†	0.7	32.8	517.47 ug/L	517.47 ppb	21:11:42
1	Si 251.611†	626972.1	627965.0	19873 ug/L	19873 ppb	21:11:22
1	Sn 189.927†	2793.8	2798.7	494.72 ug/L	494.72 ppb	21:11:42
1	Ti 334.940†	4690378.0	4702586.5	7530.7 ug/L	7530.7 ppb	21:11:17
1	Tl 190.801†	1287.5	1324.6	481.40 ug/L	481.40 ppb	21:11:42
1	U 409.014†	9611.7	11497.9	317.79 ug/L	317.79 ppb	21:11:22
1	V 292.402†	120333.0	121971.7	800.41 ug/L	800.41 ppb	21:11:22
1	Zn 213.857†	87525.2	87103.4	796.52 ug/L	796.52 ppb	21:11:22
1	SiO2†	631835.1	632840.9	42671 ug/L	42671 ppb	21:12:52
2	Sc Radial	5240.7	5240.7	102 %		21:10:44
2	Y RADIAL	6228.3	6228.3	113.1 %		21:10:44
2	Al 396.153Radial†	284484.4	277986.6	222300 ug/L	222300 ppb	21:10:24
2	Ca 317.933Radial†	16295.9	15904.2	25673 ug/L	25673 ppb	21:10:44
2	Fe 238.204 Radial†	19624.6	19164.4	162970 ug/L	162970 ppb	21:10:24
2	K 766.490 Radial†	162900.3	156664.5	28516 ug/L	28516 ppb	21:10:24
2	Mg 279.077 IEC†	889.6	866.2	28599 ug/L	28599 ppb	21:10:44
2	Na 589.592 Radial†	21454.2	22272.6	6384.5 ug/L	6384.5 ppb	21:10:24
2	Sr 421.552†	128088.0	125149.8	798.83 ug/L	798.83 ppb	21:10:24
2	Sc 361.383	847492.3	847492.3	98.767 %		21:11:54
2	Y 371.029	781271.6	781271.6	107.37 %		21:11:54
2	Ag 328.068†	101486.3	102396.1	525.48 ug/L	525.48 ppb	21:11:54
2	As 188.979†	1031.6	1068.4	559.32 ug/L	559.32 ppb	21:12:14
2	B 249.677†	23620.3	24530.3	522.49 ug/L	522.49 ppb	21:11:54
2	Ba 233.527†	333914.7	338091.5	2626.4 ug/L	2626.4 ppb	21:11:54
2	Be 313.107†	1378958.1	1400646.4	546.38 ug/L	546.38 ppb	21:11:48
2	Cd 226.502†	45286.9	46053.8	490.31 ug/L	490.31 ppb	21:11:54
2	Co 228.616†	27714.0	28137.2	554.71 ug/L	554.71 ppb	21:12:14
2	Cr 267.716†	84426.7	85401.6	951.72 ug/L	951.72 ppb	21:11:54
2	Cu 324.752†	208955.3	205161.2	620.47 ug/L	620.47 ppb	21:11:54
2	Mn 257.610†	4366598.3	4420676.9	4862.9 ug/L	4862.9 ppb	21:11:48
2	Mo 202.031†	6932.8	6997.7	501.23 ug/L	501.23 ppb	21:12:14
2	Ni 231.604†	28759.6	29051.6	718.59 ug/L	718.59 ppb	21:12:14

2	P 214.914†	2961.7	2778.4	1451.0 ug/L	1451.0 ppb	21:12:14
2	Pb 220.353†	4816.3	4938.6	635.12 ug/L	635.12 ppb	21:12:14
2	S 181.975 Axial†	4244.8	4253.9	5878.3 ug/L	5878.3 ppb	21:12:14
2	Sb 206.836†	1407.2	1391.3	462.94 ug/L	462.94 ppb	21:12:14
2	Se 196.026†	6.4	38.6	521.20 ug/L	521.20 ppb	21:12:14
2	Si 251.611†	618902.7	626167.8	19816 ug/L	19816 ppb	21:11:54
2	Sn 189.927†	2799.6	2832.9	500.54 ug/L	500.54 ppb	21:12:14
2	Ti 334.940†	4666371.0	4725955.6	7568.1 ug/L	7568.1 ppb	21:11:48
2	Tl 190.801†	1294.3	1344.5	487.81 ug/L	487.81 ppb	21:12:14
2	U 409.014†	9304.8	11284.8	311.51 ug/L	311.51 ppb	21:11:54
2	V 292.402†	119004.7	121850.0	799.64 ug/L	799.64 ppb	21:11:54
2	Zn 213.857†	86345.3	86798.5	793.59 ug/L	793.59 ppb	21:11:54
2	SiO2†	627881.7	635260.5	42834 ug/L	42834 ppb	21:12:57
3	Sc Radial	5348.1	5348.1	104 %		21:11:09
3	Y RADIAL	6357.2	6357.2	115.5 %		21:11:09
3	Al 396.153Radial†	286825.1	274646.4	219630 ug/L	219630 ppb	21:10:49
3	Ca 317.933Radial†	16801.8	16068.9	25939 ug/L	25939 ppb	21:11:09
3	Fe 238.204 Radial†	19786.4	18934.3	161010 ug/L	161010 ppb	21:10:49
3	K 766.490 Radial†	164255.0	154765.6	28170 ug/L	28170 ppb	21:10:49
3	Mg 279.077 IEC†	915.6	873.7	28850 ug/L	28850 ppb	21:11:09
3	Na 589.592 Radial†	21557.4	21950.5	6292.1 ug/L	6292.1 ppb	21:10:49
3	Sr 421.552†	129122.0	123626.9	789.11 ug/L	789.11 ppb	21:10:49
3	Sc 361.383	857970.7	857970.7	99.988 %		21:12:26
3	Y 371.029	788360.2	788360.2	108.34 %		21:12:26
3	Ag 328.068†	102827.6	102482.6	525.24 ug/L	525.24 ppb	21:12:26
3	As 188.979†	1046.6	1070.7	559.30 ug/L	559.30 ppb	21:12:46
3	B 249.677†	23996.6	24614.5	524.72 ug/L	524.72 ppb	21:12:26
3	Ba 233.527†	337745.8	337794.1	2624.0 ug/L	2624.0 ppb	21:12:26
3	Be 313.107†	1386351.3	1390988.9	542.59 ug/L	542.59 ppb	21:12:20
3	Cd 226.502†	45822.7	46029.7	490.24 ug/L	490.24 ppb	21:12:26
3	Co 228.616†	27735.0	27815.5	548.33 ug/L	548.33 ppb	21:12:46
3	Cr 267.716†	85375.2	85306.3	950.63 ug/L	950.63 ppb	21:12:26
3	Cu 324.752†	211364.9	204987.3	619.85 ug/L	619.85 ppb	21:12:26
3	Mn 257.610†	4374037.2	4374121.6	4811.7 ug/L	4811.7 ppb	21:12:20
3	Mo 202.031†	6940.5	6919.7	495.64 ug/L	495.64 ppb	21:12:46
3	Ni 231.604†	28785.1	28721.4	710.42 ug/L	710.42 ppb	21:12:46
3	P 214.914†	2934.3	2714.3	1413.6 ug/L	1413.6 ppb	21:12:46
3	Pb 220.353†	4792.8	4855.6	624.63 ug/L	624.63 ppb	21:12:46
3	S 181.975 Axial†	4225.8	4182.5	5779.4 ug/L	5779.4 ppb	21:12:46
3	Sb 206.836†	1403.1	1369.8	455.65 ug/L	455.65 ppb	21:12:46
3	Se 196.026†	12.1	44.1	518.74 ug/L	518.74 ppb	21:12:46
3	Si 251.611†	625833.2	625446.1	19793 ug/L	19793 ppb	21:12:26
3	Sn 189.927†	2787.2	2785.9	492.36 ug/L	492.36 ppb	21:12:46
3	Ti 334.940†	4684884.5	4686769.4	7505.4 ug/L	7505.4 ppb	21:12:20
3	Tl 190.801†	1294.0	1328.2	482.16 ug/L	482.16 ppb	21:12:46
3	U 409.014†	9217.3	11082.3	305.78 ug/L	305.78 ppb	21:12:26
3	V 292.402†	120327.2	121701.0	798.92 ug/L	798.92 ppb	21:12:26
3	Zn 213.857†	87421.0	86806.7	793.90 ug/L	793.90 ppb	21:12:26
3	SiO2†	632455.8	632071.1	42619 ug/L	42619 ppb	21:13:02

Mean Data: 1202006033|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853849.9	99.508 %	0.6510			0.65%
Sc Radial	5285.0	103 %	1.1			1.06%
Y 371.029	785460.8	107.94 %	0.511			0.47%
Y RADIAL	6276.4	114.0 %	1.28			1.12%
Ag 328.068†	102440.6	525.46 ug/L	0.220	525.46 ppb	0.220	0.04%
Al 396.153Radial†	276500.1	221110 ug/L	1359.6	221110 ppb	1359.6	0.61%
As 188.979†	1063.7	556.84 ug/L	4.270	556.84 ppb	4.270	0.77%
B 249.677†	24614.0	524.50 ug/L	1.898	524.50 ppb	1.898	0.36%
Ba 233.527†	338278.4	2627.8 ug/L	4.68	2627.8 ppb	4.68	0.18%
Be 313.107†	1395664.7	544.42 ug/L	1.899	544.42 ppb	1.899	0.35%
Ca 317.933Radial†	16139.8	26054 ug/L	448.8	26054 ppb	448.8	1.72%
Cd 226.502†	46118.7	491.08 ug/L	1.407	491.08 ppb	1.407	0.29%
Co 228.616†	27885.3	549.67 ug/L	4.525	549.67 ppb	4.525	0.82%
Cr 267.716†	85378.7	951.46 ug/L	0.732	951.46 ppb	0.732	0.08%
Cu 324.752†	205263.5	620.74 ug/L	1.051	620.74 ppb	1.051	0.17%
Fe 238.204 Radial†	19087.4	162310 ug/L	1127.6	162310 ppb	1127.6	0.69%
K 766.490 Radial†	155873.3	28372 ug/L	179.9	28372 ppb	179.9	0.63%

Mg 279.077 IEC†	878.3	29001 ug/L	494.7	29001 ppb	494.7	1.71%
Mn 257.610†	4397636.3	4837.6 ug/L	25.63	4837.6 ppb	25.63	0.53%
Mo 202.031†	6933.6	496.71 ug/L	4.089	496.71 ppb	4.089	0.82%
Na 589.592 Radial†	22127.5	6342.9 ug/L	46.84	6342.9 ppb	46.84	0.74%
Ni 231.604†	28793.6	712.21 ug/L	5.703	712.21 ppb	5.703	0.80%
P 214.914†	2740.1	1428.2 ug/L	20.06	1428.2 ppb	20.06	1.40%
Pb 220.353†	4893.2	629.41 ug/L	5.310	629.41 ppb	5.310	0.84%
S 181.975 Axial†	4203.8	5808.8 ug/L	60.48	5808.8 ppb	60.48	1.04%
Sb 206.836†	1373.5	456.86 ug/L	5.579	456.86 ppb	5.579	1.22%
Se 196.026†	38.5	519.14 ug/L	1.898	519.14 ppb	1.898	0.37%
Si 251.611†	626526.3	19828 ug/L	41.1	19828 ppb	41.1	0.21%
Sn 189.927†	2805.8	495.87 ug/L	4.208	495.87 ppb	4.208	0.85%
Sr 421.552†	124462.7	794.44 ug/L	4.931	794.44 ppb	4.931	0.62%
Ti 334.940†	4705103.9	7534.8 ug/L	31.56	7534.8 ppb	31.56	0.42%
Tl 190.801†	1332.4	483.79 ug/L	3.500	483.79 ppb	3.500	0.72%
U 409.014†	11288.3	311.69 ug/L	6.007	311.69 ppb	6.007	1.93%
V 292.402†	121840.9	799.66 ug/L	0.745	799.66 ppb	0.745	0.09%
Zn 213.857†	86902.9	794.67 ug/L	1.608	794.67 ppb	1.608	0.20%
SiO2†	633390.8	42708 ug/L	112.2	42708 ppb	112.2	0.26%

Sequence No.: 50

Sample ID: 1202006035|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 1/12/2010 21:15:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006035|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5339.0	5339.0	104 %		21:17:27
1	Y RADIAL	6371.1	6371.1	115.7 %		21:17:27
1	Al 396.153Radial†	304914.7	292467.7	233880 ug/L	233880 ppb	21:17:07
1	Ca 317.933Radial†	17578.0	16840.8	27185 ug/L	27185 ppb	21:17:07
1	Fe 238.204 Radial†	19849.1	19026.9	161800 ug/L	161800 ppb	21:17:07
1	K 766.490 Radial†	169777.9	160332.4	29183 ug/L	29183 ppb	21:17:07
1	Mg 279.077 IEC†	955.5	913.5	30170 ug/L	30170 ppb	21:17:27
1	Na 589.592 Radial†	20713.0	21176.0	6070.1 ug/L	6070.1 ppb	21:17:07
1	Sr 421.552†	130089.0	124766.3	796.37 ug/L	796.37 ppb	21:17:07
1	Sc 361.383	869952.5	869952.5	101.38 %		21:18:26
1	Y 371.029	789811.2	789811.2	108.54 %		21:18:31
1	Ag 328.068†	102207.8	100454.8	516.20 ug/L	516.20 ppb	21:18:31
1	As 188.979†	1029.0	1038.9	549.13 ug/L	549.13 ppb	21:18:51
1	B 249.677†	24070.8	24357.2	518.84 ug/L	518.84 ppb	21:18:31
1	Ba 233.527†	358929.7	354036.4	2749.9 ug/L	2749.9 ppb	21:18:31
1	Be 313.107†	1392508.6	1377965.7	538.51 ug/L	538.51 ppb	21:18:26
1	Cd 226.502†	45781.7	45358.1	482.76 ug/L	482.76 ppb	21:18:31
1	Co 228.616†	27744.9	27443.3	540.03 ug/L	540.03 ppb	21:18:51
1	Cr 267.716†	84509.3	83276.2	928.13 ug/L	928.13 ppb	21:18:31
1	Cu 324.752†	211606.7	202314.4	611.92 ug/L	611.92 ppb	21:18:31
1	Mn 257.610†	5004270.3	4935497.1	5427.3 ug/L	5427.3 ppb	21:18:26
1	Mo 202.031†	6878.9	6763.4	484.80 ug/L	484.80 ppb	21:18:51
1	Ni 231.604†	28774.2	28314.2	700.35 ug/L	700.35 ppb	21:18:51
1	P 214.914†	3030.8	2769.1	1451.2 ug/L	1451.2 ppb	21:18:51
1	Pb 220.353†	4803.5	4800.1	621.17 ug/L	621.17 ppb	21:18:51
1	S 181.975 Axial†	4248.0	4146.1	5726.1 ug/L	5726.1 ppb	21:18:51
1	Sb 206.836†	1353.3	1301.4	430.54 ug/L	430.54 ppb	21:18:51
1	Se 196.026†	1.2	33.2	514.92 ug/L	514.92 ppb	21:18:51
1	Si 251.611†	784994.8	773813.4	24490 ug/L	24490 ppb	21:18:26
1	Sn 189.927†	2803.5	2763.5	488.69 ug/L	488.69 ppb	21:18:51
1	Ti 334.940†	4986074.9	4919314.0	7877.8 ug/L	7877.8 ppb	21:18:26
1	Tl 190.801†	1280.1	1296.7	478.70 ug/L	478.70 ppb	21:18:51
1	U 409.014†	9265.0	11002.4	303.39 ug/L	303.39 ppb	21:18:31
1	V 292.402†	122824.7	122507.0	803.73 ug/L	803.73 ppb	21:18:31
1	Zn 213.857†	88505.9	86672.5	792.64 ug/L	792.64 ppb	21:18:31
1	SiO2†	785917.6	774725.3	52241 ug/L	52241 ppb	21:20:02
2	Sc Radial	5352.4	5352.4	105 %		21:17:52
2	Y RADIAL	6371.7	6371.7	115.7 %		21:17:52
2	Al 396.153Radial†	296989.3	284152.4	227230 ug/L	227230 ppb	21:17:32
2	Ca 317.933Radial†	17104.3	16345.5	26386 ug/L	26386 ppb	21:17:32
2	Fe 238.204 Radial†	19222.4	18379.6	156290 ug/L	156290 ppb	21:17:32
2	K 766.490 Radial†	165490.6	155822.5	28363 ug/L	28363 ppb	21:17:32
2	Mg 279.077 IEC†	956.4	912.0	30127 ug/L	30127 ppb	21:17:52
2	Na 589.592 Radial†	19960.5	20406.2	5849.5 ug/L	5849.5 ppb	21:17:32
2	Sr 421.552†	126252.5	120783.0	770.95 ug/L	770.95 ppb	21:17:32
2	Sc 361.383	869513.5	869513.5	101.33 %		21:18:58
2	Y 371.029	787141.4	787141.4	108.17 %		21:19:04
2	Ag 328.068†	102048.0	100348.1	513.93 ug/L	513.93 ppb	21:19:04
2	As 188.979†	1030.8	1041.2	548.86 ug/L	548.86 ppb	21:19:24
2	B 249.677†	24080.7	24378.9	520.21 ug/L	520.21 ppb	21:19:04
2	Ba 233.527†	358213.4	353508.2	2745.6 ug/L	2745.6 ppb	21:19:04
2	Be 313.107†	1391585.2	1377748.0	538.43 ug/L	538.43 ppb	21:18:58
2	Cd 226.502†	45599.5	45201.1	481.60 ug/L	481.60 ppb	21:19:04
2	Co 228.616†	27861.8	27572.4	542.72 ug/L	542.72 ppb	21:19:24
2	Cr 267.716†	84229.4	83042.1	925.42 ug/L	925.42 ppb	21:19:04
2	Cu 324.752†	211532.4	202346.4	611.72 ug/L	611.72 ppb	21:19:04
2	Mn 257.610†	5001556.5	4935311.2	5426.6 ug/L	5426.6 ppb	21:18:58
2	Mo 202.031†	6876.7	6764.6	484.45 ug/L	484.45 ppb	21:19:24
2	Ni 231.604†	28831.5	28385.1	702.10 ug/L	702.10 ppb	21:19:24

2	P 214.914†	3020.9	2760.8	1449.0 ug/L	1449.0 ppb	21:19:24
2	Pb 220.353†	4795.7	4794.8	619.48 ug/L	619.48 ppb	21:19:24
2	S 181.975 Axial†	4270.9	4170.9	5761.8 ug/L	5761.8 ppb	21:19:24
2	Sb 206.836†	1359.0	1307.7	432.80 ug/L	432.80 ppb	21:19:24
2	Se 196.026†	-21.8	10.6	483.96 ug/L	483.96 ppb	21:19:24
2	Si 251.611†	784120.8	773341.9	24475 ug/L	24475 ppb	21:18:58
2	Sn 189.927†	2808.6	2770.0	489.60 ug/L	489.60 ppb	21:19:24
2	Ti 334.940†	4985191.4	4920925.5	7880.3 ug/L	7880.3 ppb	21:18:58
2	Tl 190.801†	1285.1	1302.2	480.38 ug/L	480.38 ppb	21:19:24
2	U 409.014†	9319.6	11060.8	305.74 ug/L	305.74 ppb	21:19:04
2	V 292.402†	122459.4	122207.7	802.60 ug/L	802.60 ppb	21:19:04
2	Zn 213.857†	88219.6	86434.1	790.93 ug/L	790.93 ppb	21:19:04
2	SiO2†	792414.4	781528.0	52700 ug/L	52700 ppb	21:20:08
3	Sc Radial	5365.2	5365.2	105 %		21:18:18
3	Y RADIAL	6381.5	6381.5	115.9 %		21:18:18
3	Al 396.153Radial†	305199.7	291308.7	232960 ug/L	232960 ppb	21:17:58
3	Ca 317.933Radial†	17510.9	16694.3	26949 ug/L	26949 ppb	21:17:58
3	Fe 238.204 Radial†	19702.1	18793.5	159810 ug/L	159810 ppb	21:17:58
3	K 766.490 Radial†	169694.8	159456.3	29024 ug/L	29024 ppb	21:17:58
3	Mg 279.077 IEC†	962.1	915.2	30230 ug/L	30230 ppb	21:18:18
3	Na 589.592 Radial†	20515.4	20890.1	5988.2 ug/L	5988.2 ppb	21:17:58
3	Sr 421.552†	129980.9	124052.6	791.82 ug/L	791.82 ppb	21:17:58
3	Sc 361.383	875235.6	875235.6	102.00 %		21:19:31
3	Y 371.029	790026.8	790026.8	108.57 %		21:19:36
3	Ag 328.068†	101999.8	99642.4	511.80 ug/L	511.80 ppb	21:19:36
3	As 188.979†	1026.6	1030.4	545.02 ug/L	545.02 ppb	21:19:56
3	B 249.677†	23939.7	24085.3	513.06 ug/L	513.06 ppb	21:19:36
3	Ba 233.527†	358415.0	351394.8	2729.4 ug/L	2729.4 ppb	21:19:36
3	Be 313.107†	1403179.5	1380136.8	539.33 ug/L	539.33 ppb	21:19:31
3	Cd 226.502†	45610.2	44917.4	478.12 ug/L	478.12 ppb	21:19:36
3	Co 228.616†	27875.9	27406.5	539.31 ug/L	539.31 ppb	21:19:56
3	Cr 267.716†	84198.6	82468.4	919.12 ug/L	919.12 ppb	21:19:36
3	Cu 324.752†	211336.9	200790.0	607.27 ug/L	607.27 ppb	21:19:36
3	Mn 257.610†	5033429.3	4934290.1	5425.8 ug/L	5425.8 ppb	21:19:31
3	Mo 202.031†	6905.7	6748.6	483.62 ug/L	483.62 ppb	21:19:56
3	Ni 231.604†	28853.9	28221.1	698.05 ug/L	698.05 ppb	21:19:56
3	P 214.914†	3036.5	2756.6	1446.2 ug/L	1446.2 ppb	21:19:56
3	Pb 220.353†	4803.8	4771.8	617.71 ug/L	617.71 ppb	21:19:56
3	S 181.975 Axial†	4279.1	4151.3	5733.5 ug/L	5733.5 ppb	21:19:56
3	Sb 206.836†	1357.9	1297.9	429.32 ug/L	429.32 ppb	21:19:56
3	Se 196.026†	-2.7	29.4	506.57 ug/L	506.57 ppb	21:19:56
3	Si 251.611†	789428.5	773486.6	24480 ug/L	24480 ppb	21:19:31
3	Sn 189.927†	2819.9	2763.0	488.52 ug/L	488.52 ppb	21:19:56
3	Ti 334.940†	5015416.5	4918394.5	7876.3 ug/L	7876.3 ppb	21:19:31
3	Tl 190.801†	1288.4	1297.2	478.85 ug/L	478.85 ppb	21:19:56
3	U 409.014†	9187.7	10871.4	299.78 ug/L	299.78 ppb	21:19:36
3	V 292.402†	122360.2	121320.3	795.99 ug/L	795.99 ppb	21:19:36
3	Zn 213.857†	88311.1	85954.6	786.12 ug/L	786.12 ppb	21:19:36
3	SiO2†	777911.9	762197.4	51396 ug/L	51396 ppb	21:20:14

Mean Data: 1202006035|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	871567.2	101.57 %	0.371			0.37%
Sc Radial	5352.2	105 %	0.3			0.25%
Y 371.029	788993.1	108.43 %	0.221			0.20%
Y RADIAL	6374.8	115.8 %	0.11			0.09%
Ag 328.068†	100148.5	513.98 ug/L	2.200	513.98 ppb	2.200	0.43%
Al 396.153Radial†	289309.6	231360 ug/L	3602.0	231360 ppb	3602.0	1.56%
As 188.979†	1036.8	547.67 ug/L	2.295	547.67 ppb	2.295	0.42%
B 249.677†	24273.8	517.37 ug/L	3.795	517.37 ppb	3.795	0.73%
Ba 233.527†	352979.8	2741.6 ug/L	10.84	2741.6 ppb	10.84	0.40%
Be 313.107†	1378616.8	538.76 ug/L	0.495	538.76 ppb	0.495	0.09%
Ca 317.933Radial†	16626.9	26840 ug/L	410.8	26840 ppb	410.8	1.53%
Cd 226.502†	45158.9	480.83 ug/L	2.418	480.83 ppb	2.418	0.50%
Co 228.616†	27474.0	540.69 ug/L	1.800	540.69 ppb	1.800	0.33%
Cr 267.716†	82928.9	924.22 ug/L	4.623	924.22 ppb	4.623	0.50%
Cu 324.752†	201816.9	610.30 ug/L	2.630	610.30 ppb	2.630	0.43%
Fe 238.204 Radial†	18733.3	159300 ug/L	2787.2	159300 ppb	2787.2	1.75%
K 766.490 Radial†	158537.1	28857 ug/L	435.3	28857 ppb	435.3	1.51%

Mg 279.077 IEC†	913.6	30175 ug/L	51.5	30175 ppb	51.5	0.17%
Mn 257.610†	4935032.8	5426.6 ug/L	0.76	5426.6 ppb	0.76	0.01%
Mo 202.031†	6758.9	484.29 ug/L	0.609	484.29 ppb	0.609	0.13%
Na 589.592 Radial†	20824.1	5969.2 ug/L	111.53	5969.2 ppb	111.53	1.87%
Ni 231.604†	28306.8	700.17 ug/L	2.034	700.17 ppb	2.034	0.29%
P 214.914†	2762.2	1448.8 ug/L	2.52	1448.8 ppb	2.52	0.17%
Pb 220.353†	4788.9	619.45 ug/L	1.730	619.45 ppb	1.730	0.28%
S 181.975 Axial†	4156.1	5740.5 ug/L	18.84	5740.5 ppb	18.84	0.33%
Sb 206.836†	1302.3	430.89 ug/L	1.767	430.89 ppb	1.767	0.41%
Se 196.026†	24.4	501.82 ug/L	16.020	501.82 ppb	16.020	3.19%
Si 251.611†	773547.3	24482 ug/L	7.6	24482 ppb	7.6	0.03%
Sn 189.927†	2765.5	488.94 ug/L	0.578	488.94 ppb	0.578	0.12%
Sr 421.552†	123200.6	786.38 ug/L	13.557	786.38 ppb	13.557	1.72%
Ti 334.940†	4919544.7	7878.2 ug/L	2.01	7878.2 ppb	2.01	0.03%
Tl 190.801†	1298.7	479.31 ug/L	0.932	479.31 ppb	0.932	0.19%
U 409.014†	10978.2	302.97 ug/L	3.004	302.97 ppb	3.004	0.99%
V 292.402†	122011.7	800.77 ug/L	4.179	800.77 ppb	4.179	0.52%
Zn 213.857†	86353.7	789.90 ug/L	3.383	789.90 ppb	3.383	0.43%
SiO2†	772816.9	52113 ug/L	661.4	52113 ppb	661.4	1.27%

Sequence No.: 51

Sample ID: 1202006034|937483|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 1/12/2010 21:22:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006034|937483|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5315.1	5315.1	104 %		21:24:18
1	Y RADIAL	5787.9	5787.9	105.1 %		21:24:18
1	Al 396.153Radial†	36553.7	35224.5	28172 ug/L	28172 ppb	21:24:18
1	Ca 317.933Radial†	2713.7	2595.4	4189.6 ug/L	4189.6 ppb	21:24:38
1	Fe 238.204 Radial†	3597.1	3454.2	29371 ug/L	29371 ppb	21:24:18
1	K 766.490 Radial†	25556.3	22111.1	4023.7 ug/L	4023.7 ppb	21:24:18
1	Mg 279.077 IEC†	133.7	125.7	4144.7 ug/L	4144.7 ppb	21:24:38
1	Na 589.592 Radial†	-806.1	532.3	152.58 ug/L	152.58 ppb	21:24:18
1	Sr 421.552†	8784.4	8453.8	53.942 ug/L	53.942 ppb	21:24:18
1	Sc 361.383	881550.2	881550.2	102.74 %		21:25:35
1	Y 371.029	752007.8	752007.8	103.35 %		21:25:35
1	Ag 328.068†	-1610.2	-1924.3	0.9859 ug/L	0.9859 ppb	21:25:40
1	As 188.979†	-45.8	-20.6	8.7814 ug/L	8.7814 ppb	21:26:00
1	B 249.677†	-37.0	579.1	8.1083 ug/L	8.1083 ppb	21:25:40
1	Ba 233.527†	93654.6	91168.8	707.44 ug/L	707.44 ppb	21:25:40
1	Be 313.107†	-5814.1	-1184.6	2.3583 ug/L	2.3583 ppb	21:25:40
1	Cd 226.502†	123.2	321.5	0.5295 ug/L	0.5295 ppb	21:26:00
1	Co 228.616†	2039.0	2062.0	39.115 ug/L	39.115 ppb	21:26:00
1	Cr 267.716†	10886.2	10517.3	117.38 ug/L	117.38 ppb	21:25:40
1	Cu 324.752†	10781.1	4091.5	13.797 ug/L	13.797 ppb	21:25:40
1	Mn 257.610†	3429107.3	3337348.9	3662.7 ug/L	3662.7 ppb	21:25:35
1	Mo 202.031†	20.2	-2.0	2.1935 ug/L	2.1935 ppb	21:26:00
1	Ni 231.604†	2619.6	2482.8	61.415 ug/L	61.415 ppb	21:26:00
1	P 214.914†	610.3	373.7	204.77 ug/L	204.77 ppb	21:26:00
1	Pb 220.353†	244.4	300.1	40.133 ug/L	40.133 ppb	21:26:00
1	S 181.975 Axial†	152.7	104.8	140.51 ug/L	140.51 ppb	21:26:00
1	Sb 206.836†	58.9	23.9	3.7642 ug/L	3.7642 ppb	21:26:00
1	Se 196.026†	-164.7	-128.3	7.8996 ug/L	7.8996 ppb	21:26:00
1	Si 251.611†	143392.2	139112.6	4403.8 ug/L	4403.8 ppb	21:25:35
1	Sn 189.927†	-30.9	-31.8	-4.3343 ug/L	-4.3343 ppb	21:26:00
1	Ti 334.940†	791583.9	771835.6	1236.1 ug/L	1236.1 ppb	21:25:35
1	Tl 190.801†	-132.6	-95.0	-1.2443 ug/L	-1.2443 ppb	21:26:00
1	U 409.014†	-4225.6	-2249.2	-69.822 ug/L	-69.822 ppb	21:25:35
1	V 292.402†	8775.5	9901.5	60.954 ug/L	60.954 ppb	21:25:40
1	Zn 213.857†	6967.6	6157.4	54.544 ug/L	54.544 ppb	21:25:40
1	SiO2†	143539.4	139257.4	9392.7 ug/L	9392.7 ppb	21:27:08
2	Sc Radial	5388.8	5388.8	105 %		21:24:43
2	Y RADIAL	5836.6	5836.6	106.0 %		21:24:43
2	Al 396.153Radial†	36806.5	34982.8	27978 ug/L	27978 ppb	21:24:43
2	Ca 317.933Radial†	2730.5	2575.5	4157.5 ug/L	4157.5 ppb	21:25:03
2	Fe 238.204 Radial†	3597.8	3407.4	28974 ug/L	28974 ppb	21:24:43
2	K 766.490 Radial†	25708.2	21918.5	3988.6 ug/L	3988.6 ppb	21:24:43
2	Mg 279.077 IEC†	133.7	124.0	4088.8 ug/L	4088.8 ppb	21:25:03
2	Na 589.592 Radial†	-772.4	574.9	164.79 ug/L	164.79 ppb	21:24:43
2	Sr 421.552†	8823.2	8374.8	53.438 ug/L	53.438 ppb	21:24:43
2	Sc 361.383	900332.5	900332.5	104.93 %		21:26:06
2	Y 371.029	769385.2	769385.2	105.73 %		21:26:06
2	Ag 328.068†	-1515.7	-1801.6	1.4113 ug/L	1.4113 ppb	21:26:11
2	As 188.979†	-38.5	-12.7	12.062 ug/L	12.062 ppb	21:26:31
2	B 249.677†	22.5	636.6	9.4662 ug/L	9.4662 ppb	21:26:11
2	Ba 233.527†	93761.6	89369.0	693.47 ug/L	693.47 ppb	21:26:11
2	Be 313.107†	-5998.4	-1242.2	2.3375 ug/L	2.3375 ppb	21:26:11
2	Cd 226.502†	123.8	319.6	0.5495 ug/L	0.5495 ppb	21:26:31
2	Co 228.616†	2034.2	2016.0	38.181 ug/L	38.181 ppb	21:26:31
2	Cr 267.716†	10836.1	10248.5	114.39 ug/L	114.39 ppb	21:26:11
2	Cu 324.752†	10801.1	3891.7	13.178 ug/L	13.178 ppb	21:26:11
2	Mn 257.610†	3499907.0	3335194.0	3660.3 ug/L	3660.3 ppb	21:26:06
2	Mo 202.031†	23.9	1.1	2.3767 ug/L	2.3767 ppb	21:26:31
2	Ni 231.604†	2652.4	2460.9	60.874 ug/L	60.874 ppb	21:26:31

2	P 214.914†	611.6	362.5	198.47 ug/L	198.47 ppb	21:26:31
2	Pb 220.353†	231.2	282.6	38.010 ug/L	38.010 ppb	21:26:31
2	S 181.975 Axial†	149.3	98.5	131.78 ug/L	131.78 ppb	21:26:31
2	Sb 206.836†	53.1	17.2	1.4758 ug/L	1.4758 ppb	21:26:31
2	Se 196.026†	-162.1	-122.4	10.395 ug/L	10.395 ppb	21:26:31
2	Si 251.611†	146483.9	139147.4	4404.9 ug/L	4404.9 ppb	21:26:06
2	Sn 189.927†	-33.9	-33.9	-4.7254 ug/L	-4.7254 ppb	21:26:31
2	Ti 334.940†	808730.5	772103.4	1236.6 ug/L	1236.6 ppb	21:26:06
2	Tl 190.801†	-137.9	-97.4	-1.9575 ug/L	-1.9575 ppb	21:26:31
2	U 409.014†	-4232.8	-2170.3	-67.447 ug/L	-67.447 ppb	21:26:06
2	V 292.402†	8715.2	9665.9	59.429 ug/L	59.429 ppb	21:26:11
2	Zn 213.857†	7055.2	6099.4	54.043 ug/L	54.043 ppb	21:26:11
2	SiO2†	144023.2	136803.8	9227.2 ug/L	9227.2 ppb	21:27:13
3	Sc Radial	5283.1	5283.1	103 %		21:25:08
3	Y RADIAL	5777.1	5777.1	104.9 %		21:25:08
3	Al 396.153Radial†	36414.4	35302.6	28234 ug/L	28234 ppb	21:25:08
3	Ca 317.933Radial†	2725.1	2622.3	4233.0 ug/L	4233.0 ppb	21:25:28
3	Fe 238.204 Radial†	3569.4	3448.3	29321 ug/L	29321 ppb	21:25:08
3	K 766.490 Radial†	25407.5	22115.9	4024.5 ug/L	4024.5 ppb	21:25:08
3	Mg 279.077 IEC†	133.4	126.2	4160.9 ug/L	4160.9 ppb	21:25:28
3	Na 589.592 Radial†	-781.0	551.8	158.18 ug/L	158.18 ppb	21:25:08
3	Sr 421.552†	8715.5	8438.2	53.842 ug/L	53.842 ppb	21:25:08
3	Sc 361.383	881831.7	881831.7	102.77 %		21:26:37
3	Y 371.029	753730.5	753730.5	103.58 %		21:26:37
3	Ag 328.068†	-1461.8	-1779.5	1.6303 ug/L	1.6303 ppb	21:26:42
3	As 188.979†	-36.8	-11.9	12.481 ug/L	12.481 ppb	21:27:02
3	B 249.677†	58.1	671.7	10.194 ug/L	10.194 ppb	21:26:42
3	Ba 233.527†	92938.9	90443.4	701.81 ug/L	701.81 ppb	21:26:42
3	Be 313.107†	-5881.7	-1248.6	2.3343 ug/L	2.3343 ppb	21:26:42
3	Cd 226.502†	116.0	314.5	0.4574 ug/L	0.4574 ppb	21:27:02
3	Co 228.616†	2045.7	2067.9	39.232 ug/L	39.232 ppb	21:27:02
3	Cr 267.716†	10791.9	10422.2	116.32 ug/L	116.32 ppb	21:26:42
3	Cu 324.752†	10749.6	4057.5	13.693 ug/L	13.693 ppb	21:26:42
3	Mn 257.610†	3429396.6	3336564.9	3661.8 ug/L	3661.8 ppb	21:26:37
3	Mo 202.031†	17.2	-4.9	1.9832 ug/L	1.9832 ppb	21:27:02
3	Ni 231.604†	2638.0	2499.9	61.840 ug/L	61.840 ppb	21:27:02
3	P 214.914†	611.5	374.8	205.46 ug/L	205.46 ppb	21:27:02
3	Pb 220.353†	245.4	301.0	40.264 ug/L	40.264 ppb	21:27:02
3	S 181.975 Axial†	161.5	113.3	152.41 ug/L	152.41 ppb	21:27:02
3	Sb 206.836†	51.8	17.0	1.3685 ug/L	1.3685 ppb	21:27:02
3	Se 196.026†	-162.4	-125.9	9.2180 ug/L	9.2180 ppb	21:27:02
3	Si 251.611†	143180.6	138862.1	4395.9 ug/L	4395.9 ppb	21:26:37
3	Sn 189.927†	-38.9	-39.5	-5.6770 ug/L	-5.6770 ppb	21:27:02
3	Ti 334.940†	791895.5	771892.7	1236.2 ug/L	1236.2 ppb	21:26:37
3	Tl 190.801†	-128.8	-91.3	-0.1181 ug/L	-0.1181 ppb	21:27:02
3	U 409.014†	-4228.7	-2250.9	-69.865 ug/L	-69.865 ppb	21:26:37
3	V 292.402†	8672.1	9798.2	60.259 ug/L	60.259 ppb	21:26:42
3	Zn 213.857†	6913.0	6102.1	54.027 ug/L	54.027 ppb	21:26:42
3	SiO2†	145138.6	140769.0	9494.7 ug/L	9494.7 ppb	21:27:18

Mean Data: 1202006034|937483|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	887904.8	103.48 %	1.254			1.21%
Sc Radial	5329.0	104 %	1.1			1.02%
Y 371.029	758374.5	104.22 %	1.316			1.26%
Y RADIAL	5800.6	105.4 %	0.58			0.55%
Ag 328.068†	-1835.1	1.3425 ug/L	0.32767	1.3425 ppb	0.32767	24.41%
Al 396.153Radial†	35170.0	28128 ug/L	133.4	28128 ppb	133.4	0.47%
As 188.979†	-15.1	11.108 ug/L	2.0258	11.108 ppb	2.0258	18.24%
B 249.677†	629.1	9.2563 ug/L	1.05881	9.2563 ppb	1.05881	11.44%
Ba 233.527†	90327.1	700.91 ug/L	7.024	700.91 ppb	7.024	1.00%
Be 313.107†	-1225.2	2.3433 ug/L	0.01301	2.3433 ppb	0.01301	0.56%
Ca 317.933Radial†	2597.7	4193.4 ug/L	37.88	4193.4 ppb	37.88	0.90%
Cd 226.502†	318.5	0.5121 ug/L	0.04841	0.5121 ppb	0.04841	9.45%
Co 228.616†	2048.6	38.843 ug/L	0.5755	38.843 ppb	0.5755	1.48%
Cr 267.716†	10396.0	116.03 ug/L	1.518	116.03 ppb	1.518	1.31%
Cu 324.752†	4013.6	13.556 ug/L	0.3312	13.556 ppb	0.3312	2.44%
Fe 238.204 Radial†	3436.6	29222 ug/L	216.6	29222 ppb	216.6	0.74%
K 766.490 Radial†	22048.5	4012.3 ug/L	20.49	4012.3 ppb	20.49	0.51%

Mg 279.077 IEC†	125.3	4131.5 ug/L	37.83	4131.5 ppb	37.83	0.92%
Mn 257.610†	3336369.3	3661.6 ug/L	1.22	3661.6 ppb	1.22	0.03%
Mo 202.031†	-1.9	2.1845 ug/L	0.19692	2.1845 ppb	0.19692	9.01%
Na 589.592 Radial†	553.0	158.52 ug/L	6.111	158.52 ppb	6.111	3.86%
Ni 231.604†	2481.2	61.377 ug/L	0.4842	61.377 ppb	0.4842	0.79%
P 214.914†	370.3	202.90 ug/L	3.850	202.90 ppb	3.850	1.90%
Pb 220.353†	294.6	39.469 ug/L	1.2655	39.469 ppb	1.2655	3.21%
S 181.975 Axial†	105.5	141.57 ug/L	10.352	141.57 ppb	10.352	7.31%
Sb 206.836†	19.4	2.2028 ug/L	1.35323	2.2028 ppb	1.35323	61.43%
Se 196.026†	-125.5	9.1707 ug/L	1.24819	9.1707 ppb	1.24819	13.61%
Si 251.611†	139040.7	4401.5 ug/L	4.92	4401.5 ppb	4.92	0.11%
Sn 189.927†	-35.1	-4.9122 ug/L	0.69056	-4.9122 ppb	0.69056	14.06%
Sr 421.552†	8422.3	53.741 ug/L	0.2668	53.741 ppb	0.2668	0.50%
Ti 334.940†	771943.9	1236.3 ug/L	0.23	1236.3 ppb	0.23	0.02%
Tl 190.801†	-94.5	-1.1066 ug/L	0.92741	-1.1066 ppb	0.92741	83.81%
U 409.014†	-2223.4	-69.045 ug/L	1.3838	-69.045 ppb	1.3838	2.00%
V 292.402†	9788.5	60.214 ug/L	0.7636	60.214 ppb	0.7636	1.27%
Zn 213.857†	6119.6	54.205 ug/L	0.2942	54.205 ppb	0.2942	0.54%
SiO2†	138943.4	9371.5 ug/L	134.98	9371.5 ppb	134.98	1.44%

Sequence No.: 52

Sample ID: 243626002|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 1/12/2010 21:29:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626002|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5332.1	5332.1	104 %		21:31:43
1	Y RADIAL	6115.6	6115.6	111.1 %		21:31:43
1	Al 396.153Radial†	101148.6	97148.7	77697 ug/L	77697 ppb	21:31:23
1	Ca 317.933Radial†	11286.1	10819.9	17466 ug/L	17466 ppb	21:31:23
1	Fe 238.204 Radial†	12117.2	11625.7	98852 ug/L	98852 ppb	21:31:23
1	K 766.490 Radial†	77621.6	72035.8	13111 ug/L	13111 ppb	21:31:23
1	Mg 279.077 IEC†	485.7	463.4	15284 ug/L	15284 ppb	21:31:43
1	Na 589.592 Radial†	1231.4	2491.5	714.20 ug/L	714.20 ppb	21:31:23
1	Sr 421.552†	28498.7	27360.2	174.55 ug/L	174.55 ppb	21:31:23
1	Sc 361.383	894540.4	894540.4	104.25 %		21:32:40
1	Y 371.029	808813.4	808813.4	111.15 %		21:32:40
1	Ag 328.068†	-6261.8	-6363.6	3.6685 ug/L	3.6685 ppb	21:32:45
1	As 188.979†	-85.8	-58.3	33.984 ug/L	33.984 ppb	21:33:05
1	B 249.677†	893.5	1472.2	16.859 ug/L	16.859 ppb	21:32:45
1	Ba 233.527†	149895.8	143793.4	1117.6 ug/L	1117.6 ppb	21:32:45
1	Be 313.107†	-14072.7	-9024.3	5.9612 ug/L	5.9612 ppb	21:32:45
1	Cd 226.502†	806.6	975.3	0.5309 ug/L	0.5309 ppb	21:33:05
1	Co 228.616†	2277.0	2261.4	36.304 ug/L	36.304 ppb	21:33:05
1	Cr 267.716†	7037.5	6671.6	76.296 ug/L	76.296 ppb	21:32:45
1	Cu 324.752†	26771.4	19277.5	62.805 ug/L	62.805 ppb	21:32:45
1	Mn 257.610†	2735933.8	2623964.6	2886.8 ug/L	2886.8 ppb	21:32:40
1	Mo 202.031†	-43.9	-63.8	3.4327 ug/L	3.4327 ppb	21:33:05
1	Ni 231.604†	2407.3	2242.2	55.458 ug/L	55.458 ppb	21:33:05
1	P 214.914†	4142.9	3753.7	2179.4 ug/L	2179.4 ppb	21:33:05
1	Pb 220.353†	646.4	682.2	91.476 ug/L	91.476 ppb	21:33:05
1	S 181.975 Axial†	511.8	447.1	607.65 ug/L	607.65 ppb	21:33:05
1	Sb 206.836†	62.9	26.9	-5.2015 ug/L	-5.2015 ppb	21:33:05
1	Se 196.026†	-476.4	-425.0	29.926 ug/L	29.926 ppb	21:33:05
1	Si 251.611†	900106.0	862949.5	27318 ug/L	27318 ppb	21:32:40
1	Sn 189.927†	-113.6	-110.6	-14.668 ug/L	-14.668 ppb	21:33:05
1	Ti 334.940†	2685891.0	2577726.0	4128.7 ug/L	4128.7 ppb	21:32:40
1	Tl 190.801†	-197.6	-155.5	0.4494 ug/L	0.4494 ppb	21:33:05
1	U 409.014†	-6089.2	-3977.1	-128.52 ug/L	-128.52 ppb	21:32:45
1	V 292.402†	32069.9	32122.2	197.32 ug/L	197.32 ppb	21:32:45
1	Zn 213.857†	25761.5	24086.6	216.09 ug/L	216.09 ppb	21:32:45
1	SiO2†	884835.8	848303.5	57217 ug/L	57217 ppb	21:34:14
2	Sc Radial	5367.9	5367.9	105 %		21:32:08
2	Y RADIAL	6143.5	6143.5	111.6 %		21:32:08
2	Al 396.153Radial†	102038.3	97349.4	77857 ug/L	77857 ppb	21:31:48
2	Ca 317.933Radial†	11367.5	10825.2	17475 ug/L	17475 ppb	21:31:48
2	Fe 238.204 Radial†	12145.5	11575.1	98422 ug/L	98422 ppb	21:31:48
2	K 766.490 Radial†	78063.3	71959.8	13097 ug/L	13097 ppb	21:31:48
2	Mg 279.077 IEC†	480.9	455.7	15030 ug/L	15030 ppb	21:32:08
2	Na 589.592 Radial†	1119.2	2376.6	681.26 ug/L	681.26 ppb	21:31:48
2	Sr 421.552†	28647.3	27319.4	174.29 ug/L	174.29 ppb	21:31:48
2	Sc 361.383	872638.9	872638.9	101.70 %		21:33:11
2	Y 371.029	789171.8	789171.8	108.45 %		21:33:11
2	Ag 328.068†	-6306.5	-6558.3	2.6669 ug/L	2.6669 ppb	21:33:17
2	As 188.979†	-74.2	-49.0	37.959 ug/L	37.959 ppb	21:33:37
2	B 249.677†	906.5	1506.5	17.697 ug/L	17.697 ppb	21:33:17
2	Ba 233.527†	151276.1	148759.4	1156.1 ug/L	1156.1 ppb	21:33:17
2	Be 313.107†	-14085.9	-9376.1	5.8489 ug/L	5.8489 ppb	21:33:17
2	Cd 226.502†	786.6	975.1	0.5731 ug/L	0.5731 ppb	21:33:37
2	Co 228.616†	2248.7	2288.4	36.859 ug/L	36.859 ppb	21:33:37
2	Cr 267.716†	7170.5	6971.9	79.629 ug/L	79.629 ppb	21:33:17
2	Cu 324.752†	26977.7	20124.9	65.310 ug/L	65.310 ppb	21:33:17
2	Mn 257.610†	2678980.0	2633828.6	2897.5 ug/L	2897.5 ppb	21:33:11
2	Mo 202.031†	-31.5	-52.6	4.1789 ug/L	4.1789 ppb	21:33:37
2	Ni 231.604†	2386.4	2279.5	56.384 ug/L	56.384 ppb	21:33:37

2	P 214.914†	4090.8	3802.2	2208.3 ug/L	2208.3 ppb	21:33:37
2	Pb 220.353†	638.3	689.9	92.479 ug/L	92.479 ppb	21:33:37
2	S 181.975 Axial†	517.1	464.6	631.95 ug/L	631.95 ppb	21:33:37
2	Sb 206.836†	74.2	39.5	-0.9074 ug/L	-0.9074 ppb	21:33:37
2	Se 196.026†	-482.2	-442.1	17.855 ug/L	17.855 ppb	21:33:37
2	Si 251.611†	879236.9	864098.8	27354 ug/L	27354 ppb	21:33:11
2	Sn 189.927†	-97.7	-97.8	-12.439 ug/L	-12.439 ppb	21:33:37
2	Ti 334.940†	2625921.1	2583419.5	4137.9 ug/L	4137.9 ppb	21:33:11
2	Tl 190.801†	-189.1	-151.9	1.6573 ug/L	1.6573 ppb	21:33:37
2	U 409.014†	-5974.1	-4010.5	-129.46 ug/L	-129.46 ppb	21:33:17
2	V 292.402†	32282.5	33103.3	204.03 ug/L	204.03 ppb	21:33:17
2	Zn 213.857†	25883.4	24826.7	223.07 ug/L	223.07 ppb	21:33:17
2	SiO2†	884539.6	869314.6	58634 ug/L	58634 ppb	21:34:20
3	Sc Radial	5268.3	5268.3	103 %		21:32:33
3	Y RADIAL	6053.0	6053.0	109.9 %		21:32:33
3	Al 396.153Radial†	101924.7	99080.3	79242 ug/L	79242 ppb	21:32:13
3	Ca 317.933Radial†	11358.8	11021.9	17792 ug/L	17792 ppb	21:32:13
3	Fe 238.204 Radial†	12191.7	11839.2	100670 ug/L	100670 ppb	21:32:13
3	K 766.490 Radial†	78085.3	73389.8	13357 ug/L	13357 ppb	21:32:13
3	Mg 279.077 IEC†	484.1	467.6	15421 ug/L	15421 ppb	21:32:33
3	Na 589.592 Radial†	1128.6	2405.9	689.65 ug/L	689.65 ppb	21:32:13
3	Sr 421.552†	28583.1	27773.9	177.19 ug/L	177.19 ppb	21:32:13
3	Sc 361.383	877648.9	877648.9	102.28 %		21:33:42
3	Y 371.029	793468.4	793468.4	109.04 %		21:33:42
3	Ag 328.068†	-6288.5	-6505.3	3.6329 ug/L	3.6329 ppb	21:33:48
3	As 188.979†	-77.2	-51.5	37.363 ug/L	37.363 ppb	21:34:08
3	B 249.677†	986.7	1579.8	18.981 ug/L	18.981 ppb	21:33:48
3	Ba 233.527†	151492.4	148121.7	1151.2 ug/L	1151.2 ppb	21:33:48
3	Be 313.107†	-14010.9	-9223.8	5.8977 ug/L	5.8977 ppb	21:33:48
3	Cd 226.502†	790.8	974.8	0.3365 ug/L	0.3365 ppb	21:34:08
3	Co 228.616†	2244.5	2271.7	36.490 ug/L	36.490 ppb	21:34:08
3	Cr 267.716†	7150.6	6912.1	79.010 ug/L	79.010 ppb	21:33:48
3	Cu 324.752†	26876.1	19874.2	64.684 ug/L	64.684 ppb	21:33:48
3	Mn 257.610†	2691550.6	2631081.4	2894.7 ug/L	2894.7 ppb	21:33:42
3	Mo 202.031†	-47.9	-68.4	3.2510 ug/L	3.2510 ppb	21:34:08
3	Ni 231.604†	2395.6	2275.2	56.276 ug/L	56.276 ppb	21:34:08
3	P 214.914†	4124.5	3812.2	2213.0 ug/L	2213.0 ppb	21:34:08
3	Pb 220.353†	650.3	698.0	93.575 ug/L	93.575 ppb	21:34:08
3	S 181.975 Axial†	526.7	471.1	640.77 ug/L	640.77 ppb	21:34:08
3	Sb 206.836†	58.9	24.2	-6.1901 ug/L	-6.1901 ppb	21:34:08
3	Se 196.026†	-485.7	-442.8	24.162 ug/L	24.162 ppb	21:34:08
3	Si 251.611†	884125.9	863943.4	27349 ug/L	27349 ppb	21:33:42
3	Sn 189.927†	-119.7	-118.7	-15.998 ug/L	-15.998 ppb	21:34:08
3	Ti 334.940†	2638518.3	2580996.0	4134.0 ug/L	4134.0 ppb	21:33:42
3	Tl 190.801†	-207.6	-168.9	-3.5302 ug/L	-3.5302 ppb	21:34:08
3	U 409.014†	-6192.3	-4190.3	-135.01 ug/L	-135.01 ppb	21:33:48
3	V 292.402†	32338.5	32976.9	202.80 ug/L	202.80 ppb	21:33:48
3	Zn 213.857†	25930.9	24727.8	221.92 ug/L	221.92 ppb	21:33:48
3	SiO2†	873732.4	853783.3	57587 ug/L	57587 ppb	21:34:26

Mean Data: 243626002|937483|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	881609.4	102.74 %		1.337			1.30%
Sc Radial	5322.8	104 %		1.0			0.95%
Y 371.029	797151.2	109.55 %		1.419			1.30%
Y RADIAL	6104.1	110.9 %		0.84			0.76%
Ag 328.068†	-6475.7	3.3228 ug/L		0.56826	3.3228 ppb	0.56826	17.10%
Al 396.153Radial†	97859.4	78265 ug/L		849.4	78265 ppb	849.4	1.09%
As 188.979†	-53.0	36.435 ug/L		2.1438	36.435 ppb	2.1438	5.88%
B 249.677†	1519.5	17.846 ug/L		1.0686	17.846 ppb	1.0686	5.99%
Ba 233.527†	146891.5	1141.7 ug/L		20.95	1141.7 ppb	20.95	1.84%
Be 313.107†	-9208.0	5.9026 ug/L		0.05627	5.9026 ppb	0.05627	0.95%
Ca 317.933Radial†	10889.0	17578 ug/L		185.9	17578 ppb	185.9	1.06%
Cd 226.502†	975.1	0.4802 ug/L		0.12618	0.4802 ppb	0.12618	26.28%
Co 228.616†	2273.8	36.551 ug/L		0.2825	36.551 ppb	0.2825	0.77%
Cr 267.716†	6851.9	78.312 ug/L		1.7729	78.312 ppb	1.7729	2.26%
Cu 324.752†	19758.9	64.266 ug/L		1.3040	64.266 ppb	1.3040	2.03%
Fe 238.204 Radial†	11680.0	99314 ug/L		1191.6	99314 ppb	1191.6	1.20%
K 766.490 Radial†	72461.8	13188 ug/L		146.5	13188 ppb	146.5	1.11%

Mg 279.077 IEC†	462.2	15245 ug/L	198.4	15245 ppb	198.4	1.30%
Mn 257.610†	2629624.9	2893.0 ug/L	5.60	2893.0 ppb	5.60	0.19%
Mo 202.031†	-61.6	3.6209 ug/L	0.49175	3.6209 ppb	0.49175	13.58%
Na 589.592 Radial†	2424.7	695.04 ug/L	17.121	695.04 ppb	17.121	2.46%
Ni 231.604†	2265.6	56.039 ug/L	0.5059	56.039 ppb	0.5059	0.90%
P 214.914†	3789.4	2200.2 ug/L	18.21	2200.2 ppb	18.21	0.83%
Pb 220.353†	690.0	92.510 ug/L	1.0497	92.510 ppb	1.0497	1.13%
S 181.975 Axial†	460.9	626.79 ug/L	17.153	626.79 ppb	17.153	2.74%
Sb 206.836†	30.2	-4.0997 ug/L	2.80844	-4.0997 ppb	2.80844	68.50%
Se 196.026†	-436.6	23.981 ug/L	6.0376	23.981 ppb	6.0376	25.18%
Si 251.611†	863663.9	27340 ug/L	19.7	27340 ppb	19.7	0.07%
Sn 189.927†	-109.0	-14.368 ug/L	1.7982	-14.368 ppb	1.7982	12.52%
Sr 421.552†	27484.5	175.34 ug/L	1.604	175.34 ppb	1.604	0.91%
Ti 334.940†	2580713.8	4133.5 ug/L	4.59	4133.5 ppb	4.59	0.11%
Tl 190.801†	-158.8	-0.4745 ug/L	2.71436	-0.4745 ppb	2.71436	572.04%
U 409.014†	-4059.3	-130.99 ug/L	3.507	-130.99 ppb	3.507	2.68%
V 292.402†	32734.1	201.38 ug/L	3.573	201.38 ppb	3.573	1.77%
Zn 213.857†	24547.0	220.36 ug/L	3.743	220.36 ppb	3.743	1.70%
SiO2†	857133.8	57813 ug/L	735.1	57813 ppb	735.1	1.27%

Sequence No.: 53

Sample ID: 243626003|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 77

Date Collected: 1/12/2010 21:36:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626003|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5372.5	5372.5	105 %		21:38:50
1	Y RADIAL	6268.4	6268.4	113.9 %		21:38:50
1	Al 396.153Radial†	202600.3	193120.0	154450 ug/L	154450 ppb	21:38:30
1	Ca 317.933Radial†	13570.9	12916.3	20850 ug/L	20850 ppb	21:38:30
1	Fe 238.204 Radial†	16555.8	15769.1	134080 ug/L	134080 ppb	21:38:30
1	K 766.490 Radial†	106146.6	98664.9	17959 ug/L	17959 ppb	21:38:30
1	Mg 279.077 IEC†	665.1	630.9	20811 ug/L	20811 ppb	21:38:50
1	Na 589.592 Radial†	1204.5	2457.0	704.29 ug/L	704.29 ppb	21:38:30
1	Sr 421.552†	42392.3	40397.6	257.76 ug/L	257.76 ppb	21:38:30
1	Sc 361.383	866894.2	866894.2	101.03 %		21:39:53
1	Y 371.029	793310.4	793310.4	109.02 %		21:39:53
1	Ag 328.068†	-8789.1	-9056.7	3.0617 ug/L	3.0617 ppb	21:39:53
1	As 188.979†	-94.4	-69.5	52.185 ug/L	52.185 ppb	21:40:13
1	B 249.677†	1276.5	1878.7	20.208 ug/L	20.208 ppb	21:39:53
1	Ba 233.527†	239465.2	237036.7	1841.3 ug/L	1841.3 ppb	21:39:53
1	Be 313.107†	-10682.5	-6099.1	10.926 ug/L	10.926 ppb	21:39:53
1	Cd 226.502†	1147.9	1337.8	0.8843 ug/L	0.8843 ppb	21:40:13
1	Co 228.616†	3137.8	3183.1	51.259 ug/L	51.259 ppb	21:40:13
1	Cr 267.716†	11604.8	11407.7	129.66 ug/L	129.66 ppb	21:40:13
1	Cu 324.752†	27785.5	21100.3	70.142 ug/L	70.142 ppb	21:39:53
1	Mn 257.610†	3452000.2	3416438.1	3759.1 ug/L	3759.1 ppb	21:39:48
1	Mo 202.031†	-52.8	-73.9	5.5008 ug/L	5.5008 ppb	21:40:13
1	Ni 231.604†	3411.5	3309.7	81.866 ug/L	81.866 ppb	21:40:13
1	P 214.914†	2031.5	1790.5	990.29 ug/L	990.29 ppb	21:40:13
1	Pb 220.353†	845.8	899.4	132.31 ug/L	132.31 ppb	21:40:13
1	S 181.975 Axial†	469.6	421.0	556.92 ug/L	556.92 ppb	21:40:13
1	Sb 206.836†	100.5	66.0	1.0040 ug/L	1.0040 ppb	21:40:13
1	Se 196.026†	-668.5	-629.6	9.6386 ug/L	9.6386 ppb	21:40:13
1	Si 251.611†	956457.8	946262.9	29955 ug/L	29955 ppb	21:39:48
1	Sn 189.927†	-107.5	-108.0	-13.063 ug/L	-13.063 ppb	21:40:13
1	Ti 334.940†	3675480.0	3639407.4	5828.8 ug/L	5828.8 ppb	21:39:48
1	Tl 190.801†	-247.8	-211.2	1.6786 ug/L	1.6786 ppb	21:40:13
1	U 409.014†	-8057.8	-6111.9	-195.50 ug/L	-195.50 ppb	21:39:53
1	V 292.402†	41979.4	42911.8	262.90 ug/L	262.90 ppb	21:39:53
1	Zn 213.857†	30177.5	29245.7	260.92 ug/L	260.92 ppb	21:40:13
1	SiO2†	956988.9	946790.3	63860 ug/L	63860 ppb	21:41:23
2	Sc Radial	5319.3	5319.3	104 %		21:39:15
2	Y RADIAL	6224.4	6224.4	113.1 %		21:39:15
2	Al 396.153Radial†	201867.7	194344.3	155430 ug/L	155430 ppb	21:38:55
2	Ca 317.933Radial†	13501.9	12979.0	20952 ug/L	20952 ppb	21:38:55
2	Fe 238.204 Radial†	16463.7	15838.1	134670 ug/L	134670 ppb	21:38:55
2	K 766.490 Radial†	105550.1	99101.6	18038 ug/L	18038 ppb	21:38:55
2	Mg 279.077 IEC†	658.8	631.2	20819 ug/L	20819 ppb	21:39:15
2	Na 589.592 Radial†	1113.5	2380.8	682.46 ug/L	682.46 ppb	21:38:55
2	Sr 421.552†	42034.7	40457.1	258.14 ug/L	258.14 ppb	21:38:55
2	Sc 361.383	862591.4	862591.4	100.53 %		21:40:25
2	Y 371.029	789897.3	789897.3	108.55 %		21:40:25
2	Ag 328.068†	-8801.2	-9112.2	3.0020 ug/L	3.0020 ppb	21:40:25
2	As 188.979†	-111.7	-87.2	44.947 ug/L	44.947 ppb	21:40:45
2	B 249.677†	1371.7	1979.7	22.379 ug/L	22.379 ppb	21:40:25
2	Ba 233.527†	238625.4	237383.6	1844.0 ug/L	1844.0 ppb	21:40:25
2	Be 313.107†	-10520.1	-5990.3	11.017 ug/L	11.017 ppb	21:40:25
2	Cd 226.502†	1142.2	1337.8	0.8230 ug/L	0.8230 ppb	21:40:45
2	Co 228.616†	3144.1	3204.8	51.646 ug/L	51.646 ppb	21:40:45
2	Cr 267.716†	11617.7	11477.9	130.45 ug/L	130.45 ppb	21:40:45
2	Cu 324.752†	27659.2	21111.9	70.210 ug/L	70.210 ppb	21:40:25
2	Mn 257.610†	3454558.4	3436027.3	3780.6 ug/L	3780.6 ppb	21:40:20
2	Mo 202.031†	-58.1	-79.5	5.1588 ug/L	5.1588 ppb	21:40:45
2	Ni 231.604†	3414.4	3329.5	82.356 ug/L	82.356 ppb	21:40:45

2	P 214.914†	2045.7	1814.6	1004.5 ug/L	1004.5 ppb	21:40:45
2	Pb 220.353†	816.8	874.7	129.50 ug/L	129.50 ppb	21:40:45
2	S 181.975 Axial†	459.0	412.7	545.21 ug/L	545.21 ppb	21:40:45
2	Sb 206.836†	100.5	66.5	1.0330 ug/L	1.0330 ppb	21:40:45
2	Se 196.026†	-684.0	-648.3	-0.3449 ug/L	-0.3449 ppb	21:40:45
2	Si 251.611†	956031.4	950561.3	30091 ug/L	30091 ppb	21:40:20
2	Sn 189.927†	-122.6	-123.6	-15.742 ug/L	-15.742 ppb	21:40:45
2	Ti 334.940†	3671080.0	3653178.3	5850.9 ug/L	5850.9 ppb	21:40:20
2	Tl 190.801†	-252.3	-216.9	0.2458 ug/L	0.2458 ppb	21:40:45
2	U 409.014†	-8173.9	-6267.2	-200.13 ug/L	-200.13 ppb	21:40:25
2	V 292.402†	41849.4	42989.8	263.29 ug/L	263.29 ppb	21:40:25
2	Zn 213.857†	30170.2	29387.5	262.19 ug/L	262.19 ppb	21:40:45
2	SiO2†	946976.3	941555.3	63507 ug/L	63507 ppb	21:41:29
3	Sc Radial	5352.9	5352.9	105 %		21:39:40
3	Y RADIAL	6268.7	6268.7	113.9 %		21:39:40
3	Al 396.153Radial†	203107.6	194312.0	155410 ug/L	155410 ppb	21:39:20
3	Ca 317.933Radial†	13572.9	12965.5	20930 ug/L	20930 ppb	21:39:20
3	Fe 238.204 Radial†	16507.9	15781.0	134180 ug/L	134180 ppb	21:39:20
3	K 766.490 Radial†	105913.9	98812.5	17986 ug/L	17986 ppb	21:39:20
3	Mg 279.077 IEC†	669.7	637.6	21032 ug/L	21032 ppb	21:39:40
3	Na 589.592 Radial†	1153.7	2412.6	691.57 ug/L	691.57 ppb	21:39:20
3	Sr 421.552†	42274.3	40432.6	257.99 ug/L	257.99 ppb	21:39:20
3	Sc 361.383	864764.0	864764.0	100.78 %		21:40:57
3	Y 371.029	791342.2	791342.2	108.75 %		21:40:57
3	Ag 328.068†	-8819.2	-9108.1	2.8606 ug/L	2.8606 ppb	21:40:57
3	As 188.979†	-99.2	-74.5	49.777 ug/L	49.777 ppb	21:41:17
3	B 249.677†	1483.0	2086.6	24.859 ug/L	24.859 ppb	21:40:57
3	Ba 233.527†	238948.4	237107.8	1841.9 ug/L	1841.9 ppb	21:40:57
3	Be 313.107†	-10742.1	-6184.3	10.813 ug/L	10.813 ppb	21:40:57
3	Cd 226.502†	1144.6	1337.4	0.8685 ug/L	0.8685 ppb	21:41:17
3	Co 228.616†	3134.9	3187.9	51.430 ug/L	51.430 ppb	21:41:17
3	Cr 267.716†	11533.6	11365.3	129.19 ug/L	129.19 ppb	21:41:17
3	Cu 324.752†	27757.7	21140.4	70.268 ug/L	70.268 ppb	21:40:57
3	Mn 257.610†	3425657.3	3398716.1	3739.7 ug/L	3739.7 ppb	21:40:51
3	Mo 202.031†	-48.9	-70.2	5.7679 ug/L	5.7679 ppb	21:41:17
3	Ni 231.604†	3409.1	3315.7	82.014 ug/L	82.014 ppb	21:41:17
3	P 214.914†	2037.2	1801.2	996.78 ug/L	996.78 ppb	21:41:17
3	Pb 220.353†	817.1	872.9	129.32 ug/L	129.32 ppb	21:41:17
3	S 181.975 Axial†	458.1	410.7	542.39 ug/L	542.39 ppb	21:41:17
3	Sb 206.836†	96.9	62.7	-0.0571 ug/L	-0.0571 ppb	21:41:17
3	Se 196.026†	-669.2	-632.0	8.4832 ug/L	8.4832 ppb	21:41:17
3	Si 251.611†	947901.7	940105.2	29760 ug/L	29760 ppb	21:40:51
3	Sn 189.927†	-122.5	-123.2	-15.691 ug/L	-15.691 ppb	21:41:17
3	Ti 334.940†	3644113.4	3617245.6	5793.3 ug/L	5793.3 ppb	21:40:51
3	Tl 190.801†	-263.5	-227.4	-3.5955 ug/L	-3.5955 ppb	21:41:17
3	U 409.014†	-8087.7	-6161.2	-196.96 ug/L	-196.96 ppb	21:40:57
3	V 292.402†	41928.4	42963.6	263.28 ug/L	263.28 ppb	21:40:57
3	Zn 213.857†	30022.7	29165.7	260.16 ug/L	260.16 ppb	21:41:17
3	SiO2†	949365.4	941559.1	63507 ug/L	63507 ppb	21:41:35

Mean Data: 243626003|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864749.9	100.78 %	0.251			0.25%
Sc Radial	5348.2	104 %	0.5			0.50%
Y 371.029	791516.6	108.78 %	0.235			0.22%
Y RADIAL	6253.9	113.6 %	0.46			0.41%
Ag 328.068†	-9092.3	2.9748 ug/L	0.10329	2.9748 ppb	0.10329	3.47%
Al 396.153Radial†	193925.4	155100 ug/L	558.0	155100 ppb	558.0	0.36%
As 188.979†	-77.1	48.970 ug/L	3.6859	48.970 ppb	3.6859	7.53%
B 249.677†	1981.6	22.482 ug/L	2.3270	22.482 ppb	2.3270	10.35%
Ba 233.527†	237176.0	1842.4 ug/L	1.43	1842.4 ppb	1.43	0.08%
Be 313.107†	-6091.3	10.919 ug/L	0.1022	10.919 ppb	0.1022	0.94%
Ca 317.933Radial†	12953.6	20910 ug/L	53.3	20910 ppb	53.3	0.26%
Cd 226.502†	1337.7	0.8586 ug/L	0.03187	0.8586 ppb	0.03187	3.71%
Co 228.616†	3191.9	51.445 ug/L	0.1940	51.445 ppb	0.1940	0.38%
Cr 267.716†	11417.0	129.76 ug/L	0.637	129.76 ppb	0.637	0.49%
Cu 324.752†	21117.5	70.206 ug/L	0.0630	70.206 ppb	0.0630	0.09%
Fe 238.204 Radial†	15796.0	134310 ug/L	313.7	134310 ppb	313.7	0.23%
K 766.490 Radial†	98859.7	17994 ug/L	40.4	17994 ppb	40.4	0.22%

Mg 279.077 IEC†	633.2	20887 ug/L	125.6	20887 ppb	125.6	0.60%
Mn 257.610†	3417060.5	3759.8 ug/L	20.50	3759.8 ppb	20.50	0.55%
Mo 202.031†	-74.5	5.4758 ug/L	0.30531	5.4758 ppb	0.30531	5.58%
Na 589.592 Radial†	2416.8	692.78 ug/L	10.965	692.78 ppb	10.965	1.58%
Ni 231.604†	3318.3	82.078 ug/L	0.2511	82.078 ppb	0.2511	0.31%
P 214.914†	1802.1	997.19 ug/L	7.113	997.19 ppb	7.113	0.71%
Pb 220.353†	882.4	130.38 ug/L	1.676	130.38 ppb	1.676	1.29%
S 181.975 Axial†	414.8	548.17 ug/L	7.704	548.17 ppb	7.704	1.41%
Sb 206.836†	65.1	0.6600 ug/L	0.62116	0.6600 ppb	0.62116	94.12%
Se 196.026†	-636.7	5.9256 ug/L	5.46108	5.9256 ppb	5.46108	92.16%
Si 251.611†	945643.2	29936 ug/L	166.4	29936 ppb	166.4	0.56%
Sn 189.927†	-118.3	-14.832 ug/L	1.5323	-14.832 ppb	1.5323	10.33%
Sr 421.552†	40429.1	257.96 ug/L	0.191	257.96 ppb	0.191	0.07%
Ti 334.940†	3636610.4	5824.3 ug/L	29.04	5824.3 ppb	29.04	0.50%
Tl 190.801†	-218.5	-0.5570 ug/L	2.72718	-0.5570 ppb	2.72718	489.61%
U 409.014†	-6180.1	-197.53 ug/L	2.372	-197.53 ppb	2.372	1.20%
V 292.402†	42955.1	263.16 ug/L	0.223	263.16 ppb	0.223	0.08%
Zn 213.857†	29266.3	261.09 ug/L	1.027	261.09 ppb	1.027	0.39%
SiO2†	943301.6	63624 ug/L	203.8	63624 ppb	203.8	0.32%

Sequence No.: 54
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/12/2010 21:43:45
 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	5257.5	5257.5	103 %		21:45:38
1	Y RADIAL	5561.1	5561.1	101.0 %		21:45:38
1	Al 396.153Radial†	6648.3	6481.8	5159.6 ug/L	5159.6 ppb	21:45:38
1	Ca 317.933Radial†	3291.5	3186.8	5144.3 ug/L	5144.3 ppb	21:45:58
1	Fe 238.204 Radial†	636.7	608.6	5190.1 ug/L	5190.1 ppb	21:45:58
1	K 766.490 Radial†	30383.1	27082.2	4925.5 ug/L	4925.5 ppb	21:45:38
1	Mg 279.077 IEC†	165.7	158.3	5257.9 ug/L	5257.9 ppb	21:45:58
1	Na 589.592 Radial†	34022.5	34447.5	9874.4 ug/L	9874.4 ppb	21:45:38
1	Sr 421.552†	80208.1	78114.6	498.69 ug/L	498.69 ppb	21:45:38
1	Sc 361.383	879029.5	879029.5	102.44 %		21:46:55
1	Y 371.029	732253.9	732253.9	100.63 %		21:46:55
1	Ag 328.068†	112625.8	109583.5	506.02 ug/L	506.02 ppb	21:47:00
1	As 188.979†	1197.2	1192.6	514.09 ug/L	514.09 ppb	21:47:20
1	B 249.677†	22161.7	22248.4	497.10 ug/L	497.10 ppb	21:47:00
1	Ba 233.527†	66092.9	64525.7	501.22 ug/L	501.22 ppb	21:47:00
1	Be 313.107†	1384069.5	1355545.0	513.27 ug/L	513.27 ppb	21:46:55
1	Cd 226.502†	46858.2	45942.6	505.28 ug/L	505.28 ppb	21:47:00
1	Co 228.616†	25267.0	24741.9	502.13 ug/L	502.13 ppb	21:47:00
1	Cr 267.716†	46438.8	45252.7	502.68 ug/L	502.68 ppb	21:47:00
1	Cu 324.752†	176614.7	166001.4	495.20 ug/L	495.20 ppb	21:47:00
1	Mn 257.610†	470806.1	459151.3	503.83 ug/L	503.83 ppb	21:46:55
1	Mo 202.031†	7392.7	7194.8	502.49 ug/L	502.49 ppb	21:47:20
1	Ni 231.604†	20993.3	20425.8	505.17 ug/L	505.17 ppb	21:47:00
1	P 214.914†	4499.4	4171.8	2388.5 ug/L	2388.5 ppb	21:47:20
1	Pb 220.353†	4174.8	4137.5	502.44 ug/L	502.44 ppb	21:47:20
1	S 181.975 Axial†	781.4	718.9	999.45 ug/L	999.45 ppb	21:47:20
1	Sb 206.836†	1519.0	1449.4	509.41 ug/L	509.41 ppb	21:47:20
1	Se 196.026†	794.3	807.4	525.64 ug/L	525.64 ppb	21:47:20
1	Si 251.611†	81989.0	79573.6	2512.8 ug/L	2512.8 ppb	21:47:00
1	Sn 189.927†	2961.8	2889.5	504.30 ug/L	504.30 ppb	21:47:20
1	Ti 334.940†	312954.5	306827.1	491.18 ug/L	491.18 ppb	21:47:00
1	Tl 190.801†	1668.3	1662.6	505.28 ug/L	505.28 ppb	21:47:20
1	U 409.014†	15463.9	16959.1	497.54 ug/L	497.54 ppb	21:47:00
1	V 292.402†	74341.2	73928.5	508.12 ug/L	508.12 ppb	21:47:00
1	Zn 213.857†	55834.2	53878.4	501.38 ug/L	501.38 ppb	21:47:00
1	SiO2†	81639.0	79233.5	5330.5 ug/L	5330.5 ppb	21:48:28
2	Sc Radial	5296.4	5296.4	103 %		21:46:03
2	Y RADIAL	5631.3	5631.3	102.3 %		21:46:03
2	Al 396.153Radial†	6712.3	6496.1	5170.6 ug/L	5170.6 ppb	21:46:03
2	Ca 317.933Radial†	3261.7	3134.5	5059.8 ug/L	5059.8 ppb	21:46:23
2	Fe 238.204 Radial†	633.5	601.0	5125.5 ug/L	5125.5 ppb	21:46:23
2	K 766.490 Radial†	30527.7	27004.7	4911.4 ug/L	4911.4 ppb	21:46:03
2	Mg 279.077 IEC†	166.9	158.3	5256.6 ug/L	5256.6 ppb	21:46:23
2	Na 589.592 Radial†	34100.1	34279.1	9826.1 ug/L	9826.1 ppb	21:46:03
2	Sr 421.552†	80742.9	78057.9	498.33 ug/L	498.33 ppb	21:46:03
2	Sc 361.383	864977.3	864977.3	100.80 %		21:47:26
2	Y 371.029	721286.8	721286.8	99.124 %		21:47:26
2	Ag 328.068†	112435.7	111181.0	513.35 ug/L	513.35 ppb	21:47:31
2	As 188.979†	1197.1	1211.5	522.21 ug/L	522.21 ppb	21:47:51
2	B 249.677†	21977.2	22416.9	500.87 ug/L	500.87 ppb	21:47:31
2	Ba 233.527†	65806.7	65289.9	507.15 ug/L	507.15 ppb	21:47:31
2	Be 313.107†	1361160.8	1354768.3	512.99 ug/L	512.99 ppb	21:47:26
2	Cd 226.502†	46582.0	46411.7	510.45 ug/L	510.45 ppb	21:47:31
2	Co 228.616†	25231.7	25107.5	509.55 ug/L	509.55 ppb	21:47:31
2	Cr 267.716†	46302.5	45853.9	509.36 ug/L	509.36 ppb	21:47:31
2	Cu 324.752†	176056.1	168248.1	501.90 ug/L	501.90 ppb	21:47:31
2	Mn 257.610†	463024.0	458897.5	503.55 ug/L	503.55 ppb	21:47:26
2	Mo 202.031†	7400.4	7319.6	511.19 ug/L	511.19 ppb	21:47:51
2	Ni 231.604†	20862.3	20628.7	510.19 ug/L	510.19 ppb	21:47:31

2	P 214.914†	4496.0	4239.7	2427.8 ug/L	2427.8 ppb	21:47:51
2	Pb 220.353†	4202.4	4231.0	513.78 ug/L	513.78 ppb	21:47:51
2	S 181.975 Axial†	788.6	738.4	1026.6 ug/L	1026.6 ppb	21:47:51
2	Sb 206.836†	1547.8	1502.0	527.58 ug/L	527.58 ppb	21:47:51
2	Se 196.026†	795.8	821.5	534.34 ug/L	534.34 ppb	21:47:51
2	Si 251.611†	81591.2	80479.2	2541.4 ug/L	2541.4 ppb	21:47:31
2	Sn 189.927†	2975.0	2949.6	514.76 ug/L	514.76 ppb	21:47:51
2	Ti 334.940†	312285.1	311126.0	498.04 ug/L	498.04 ppb	21:47:31
2	Tl 190.801†	1656.5	1677.4	509.74 ug/L	509.74 ppb	21:47:51
2	U 409.014†	15471.9	17212.3	504.99 ug/L	504.99 ppb	21:47:31
2	V 292.402†	74143.4	74911.1	514.92 ug/L	514.92 ppb	21:47:31
2	Zn 213.857†	55677.4	54608.3	508.20 ug/L	508.20 ppb	21:47:31
2	SiO2†	82792.3	81672.3	5494.8 ug/L	5494.8 ppb	21:48:33
3	Sc Radial	5202.1	5202.1	102 %		21:46:28
3	Y RADIAL	5556.9	5556.9	100.9 %		21:46:28
3	Al 396.153Radial†	6591.8	6495.1	5170.3 ug/L	5170.3 ppb	21:46:28
3	Ca 317.933Radial†	3277.1	3206.8	5176.5 ug/L	5176.5 ppb	21:46:48
3	Fe 238.204 Radial†	632.7	611.3	5212.9 ug/L	5212.9 ppb	21:46:48
3	K 766.490 Radial†	30147.9	27166.1	4940.8 ug/L	4940.8 ppb	21:46:28
3	Mg 279.077 IEC†	165.4	159.8	5306.3 ug/L	5306.3 ppb	21:46:48
3	Na 589.592 Radial†	33579.6	34364.7	9850.7 ug/L	9850.7 ppb	21:46:28
3	Sr 421.552†	79464.7	78215.4	499.33 ug/L	499.33 ppb	21:46:28
3	Sc 361.383	879418.9	879418.9	102.49 %		21:47:57
3	Y 371.029	732975.4	732975.4	100.73 %		21:47:57
3	Ag 328.068†	113080.1	109978.1	507.84 ug/L	507.84 ppb	21:48:02
3	As 188.979†	1186.9	1182.0	509.60 ug/L	509.60 ppb	21:48:22
3	B 249.677†	22340.6	22413.4	500.80 ug/L	500.80 ppb	21:48:02
3	Ba 233.527†	66137.8	64540.9	501.34 ug/L	501.34 ppb	21:48:02
3	Be 313.107†	1383855.3	1354737.7	512.97 ug/L	512.97 ppb	21:47:57
3	Cd 226.502†	46769.5	45835.8	504.10 ug/L	504.10 ppb	21:48:02
3	Co 228.616†	25304.8	24767.8	502.65 ug/L	502.65 ppb	21:48:02
3	Cr 267.716†	46437.0	45230.8	502.44 ug/L	502.44 ppb	21:48:02
3	Cu 324.752†	177777.3	167059.5	498.36 ug/L	498.36 ppb	21:48:02
3	Mn 257.610†	469746.1	457913.4	502.48 ug/L	502.48 ppb	21:47:57
3	Mo 202.031†	7400.0	7198.8	502.77 ug/L	502.77 ppb	21:48:22
3	Ni 231.604†	20985.2	20408.7	504.75 ug/L	504.75 ppb	21:48:02
3	P 214.914†	4481.4	4152.3	2376.0 ug/L	2376.0 ppb	21:48:22
3	Pb 220.353†	4213.7	4173.6	506.81 ug/L	506.81 ppb	21:48:22
3	S 181.975 Axial†	786.6	723.6	1006.1 ug/L	1006.1 ppb	21:48:22
3	Sb 206.836†	1538.7	1467.9	515.68 ug/L	515.68 ppb	21:48:22
3	Se 196.026†	794.7	807.4	525.71 ug/L	525.71 ppb	21:48:22
3	Si 251.611†	82404.8	79943.9	2524.5 ug/L	2524.5 ppb	21:48:02
3	Sn 189.927†	2962.0	2888.4	504.12 ug/L	504.12 ppb	21:48:22
3	Ti 334.940†	314009.2	307721.0	492.61 ug/L	492.61 ppb	21:48:02
3	Tl 190.801†	1661.0	1654.8	502.92 ug/L	502.92 ppb	21:48:22
3	U 409.014†	15614.4	17099.3	501.67 ug/L	501.67 ppb	21:48:02
3	V 292.402†	74351.5	73906.4	507.98 ug/L	507.98 ppb	21:48:02
3	Zn 213.857†	55951.5	53968.7	502.22 ug/L	502.22 ppb	21:48:02
3	SiO2†	80753.9	78334.6	5269.9 ug/L	5269.9 ppb	21:48:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	874475.2	101.91 %	0.959			0.94%
Sc Radial	5252.0	103 %	0.9			0.90%
Y 371.029	728838.7	100.16 %	0.900			0.90%
Y RADIAL	5583.1	101.4 %	0.76			0.75%
Ag 328.068†	110247.5	509.07 ug/L	3.818	509.07 ppb	3.818	0.75%
QC value within limits for Ag 328.068 Recovery = 101.81%						
Al 396.153Radial†	6491.0	5166.8 ug/L	6.25	5166.8 ppb	6.25	0.12%
QC value within limits for Al 396.153Radial Recovery = 103.34%						
As 188.979†	1195.4	515.30 ug/L	6.393	515.30 ppb	6.393	1.24%
QC value within limits for As 188.979 Recovery = 103.06%						
B 249.677†	22359.6	499.59 ug/L	2.157	499.59 ppb	2.157	0.43%
QC value within limits for B 249.677 Recovery = 99.92%						
Ba 233.527†	64785.5	503.24 ug/L	3.392	503.24 ppb	3.392	0.67%
QC value within limits for Ba 233.527 Recovery = 100.65%						
Be 313.107†	1355017.0	513.08 ug/L	0.168	513.08 ppb	0.168	0.03%
QC value within limits for Be 313.107 Recovery = 102.62%						
Ca 317.933Radial†	3176.0	5126.9 ug/L	60.27	5126.9 ppb	60.27	1.18%

QC value within limits for Ca 317.933 Radial Recovery = 102.54%									
Cd	226.502†	46063.4	506.61 ug/L	3.377	506.61 ppb	3.377	0.67%		
QC value within limits for Cd 226.502 Recovery = 101.32%									
Co	228.616†	24872.4	504.78 ug/L	4.144	504.78 ppb	4.144	0.82%		
QC value within limits for Co 228.616 Recovery = 100.96%									
Cr	267.716†	45445.8	504.83 ug/L	3.927	504.83 ppb	3.927	0.78%		
QC value within limits for Cr 267.716 Recovery = 100.97%									
Cu	324.752†	167103.0	498.49 ug/L	3.349	498.49 ppb	3.349	0.67%		
QC value within limits for Cu 324.752 Recovery = 99.70%									
Fe	238.204 Radial†	607.0	5176.1 ug/L	45.35	5176.1 ppb	45.35	0.88%		
QC value within limits for Fe 238.204 Radial Recovery = 103.52%									
K	766.490 Radial†	27084.3	4925.9 ug/L	14.68	4925.9 ppb	14.68	0.30%		
QC value within limits for K 766.490 Radial Recovery = 98.52%									
Mg	279.077 IEC†	158.8	5273.6 ug/L	28.37	5273.6 ppb	28.37	0.54%		
QC value within limits for Mg 279.077 IEC Recovery = 105.47%									
Mn	257.610†	458654.1	503.29 ug/L	0.716	503.29 ppb	0.716	0.14%		
QC value within limits for Mn 257.610 Recovery = 100.66%									
Mo	202.031†	7237.7	505.48 ug/L	4.947	505.48 ppb	4.947	0.98%		
QC value within limits for Mo 202.031 Recovery = 101.10%									
Na	589.592 Radial†	34363.8	9850.4 ug/L	24.14	9850.4 ppb	24.14	0.25%		
QC value within limits for Na 589.592 Radial Recovery = 98.50%									
Ni	231.604†	20487.8	506.70 ug/L	3.026	506.70 ppb	3.026	0.60%		
QC value within limits for Ni 231.604 Recovery = 101.34%									
P	214.914†	4188.0	2397.4 ug/L	27.04	2397.4 ppb	27.04	1.13%		
QC value within limits for P 214.914 Recovery = 95.90%									
Pb	220.353†	4180.7	507.68 ug/L	5.720	507.68 ppb	5.720	1.13%		
QC value within limits for Pb 220.353 Recovery = 101.54%									
S	181.975 Axial†	727.0	1010.7 ug/L	14.18	1010.7 ppb	14.18	1.40%		
QC value within limits for S 181.975 Axial Recovery = 101.07%									
Sb	206.836†	1473.1	517.56 ug/L	9.233	517.56 ppb	9.233	1.78%		
QC value within limits for Sb 206.836 Recovery = 103.51%									
Se	196.026†	812.1	528.56 ug/L	5.003	528.56 ppb	5.003	0.95%		
QC value within limits for Se 196.026 Recovery = 105.71%									
Si	251.611†	79998.9	2526.3 ug/L	14.36	2526.3 ppb	14.36	0.57%		
QC value within limits for Si 251.611 Recovery = 101.05%									
Sn	189.927†	2909.2	507.72 ug/L	6.089	507.72 ppb	6.089	1.20%		
QC value within limits for Sn 189.927 Recovery = 101.54%									
Sr	421.552†	78129.3	498.78 ug/L	0.509	498.78 ppb	0.509	0.10%		
QC value within limits for Sr 421.552 Recovery = 99.76%									
Ti	334.940†	308558.0	493.94 ug/L	3.623	493.94 ppb	3.623	0.73%		
QC value within limits for Ti 334.940 Recovery = 98.79%									
Tl	190.801†	1664.9	505.98 ug/L	3.465	505.98 ppb	3.465	0.68%		
QC value within limits for Tl 190.801 Recovery = 101.20%									
U	409.014†	17090.2	501.40 ug/L	3.729	501.40 ppb	3.729	0.74%		
QC value within limits for U 409.014 Recovery = 100.28%									
V	292.402†	74248.7	510.34 ug/L	3.971	510.34 ppb	3.971	0.78%		
QC value within limits for V 292.402 Recovery = 102.07%									
Zn	213.857†	54151.8	503.93 ug/L	3.716	503.93 ppb	3.716	0.74%		
QC value within limits for Zn 213.857 Recovery = 100.79%									
SiO2†		79746.8	5365.0 ug/L	116.36	5365.0 ppb	116.36	2.17%		
QC value within limits for SiO2 Recovery = 100.33%									

All analyte(s) passed QC.

Sequence No.: 55

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 21:50:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5818.9	5818.9	114 %		21:52:39
1	Y RADIAL	6224.2	6224.2	113.1 %		21:52:39
1	Al 396.153Radial†	-11.9	-4.3	-3.4614 ug/L	-3.4614 ppb	21:52:39
1	Ca 317.933Radial†	22.1	0.2	0.3272 ug/L	0.3272 ppb	21:52:59
1	Fe 238.204 Radial†	7.8	-4.7	-39.965 ug/L	-39.965 ppb	21:52:59
1	K 766.490 Radial†	2946.4	81.4	14.821 ug/L	14.821 ppb	21:52:39
1	Mg 279.077 IEC†	4.7	1.1	36.955 ug/L	36.955 ppb	21:52:59
1	Na 589.592 Radial†	-1418.4	60.6	17.376 ug/L	17.376 ppb	21:52:39
1	Sr 421.552†	4.6	-5.7	-0.0363 ug/L	-0.0363 ppb	21:52:39
1	Sc 361.383	881581.2	881581.2	102.74 %		21:53:56
1	Y 371.029	747066.1	747066.1	102.67 %		21:53:56
1	Ag 328.068†	310.4	-54.9	-0.2598 ug/L	-0.2598 ppb	21:53:56
1	As 188.979†	-19.2	5.2	2.2331 ug/L	2.2331 ppb	21:54:16
1	B 249.677†	-420.2	206.1	4.6326 ug/L	4.6326 ppb	21:54:16
1	Ba 233.527†	-3.5	5.2	0.0396 ug/L	0.0396 ppb	21:54:16
1	Be 313.107†	-4322.3	267.6	0.1015 ug/L	0.1015 ppb	21:53:56
1	Cd 226.502†	-187.3	19.4	0.2162 ug/L	0.2162 ppb	21:54:16
1	Co 228.616†	-87.0	-7.4	-0.1509 ug/L	-0.1509 ppb	21:54:16
1	Cr 267.716†	80.7	-0.4	-0.0030 ug/L	-0.0030 ppb	21:54:16
1	Cu 324.752†	6354.8	-217.0	-0.6469 ug/L	-0.6469 ppb	21:53:56
1	Mn 257.610†	453.3	11.4	0.0071 ug/L	0.0071 ppb	21:54:16
1	Mo 202.031†	22.1	-0.1	-0.0104 ug/L	-0.0104 ppb	21:54:16
1	Ni 231.604†	75.2	6.1	0.1517 ug/L	0.1517 ppb	21:54:16
1	P 214.914†	219.8	-6.3	-3.6074 ug/L	-3.6074 ppb	21:54:16
1	Pb 220.353†	-56.0	7.7	0.9337 ug/L	0.9337 ppb	21:54:16
1	S 181.975 Axial†	41.3	-3.7	-5.0845 ug/L	-5.0845 ppb	21:54:16
1	Sb 206.836†	48.2	13.5	4.5807 ug/L	4.5807 ppb	21:54:16
1	Se 196.026†	-36.0	-3.0	-2.0002 ug/L	-2.0002 ppb	21:54:16
1	Si 251.611†	563.7	88.0	2.7865 ug/L	2.7865 ppb	21:54:16
1	Sn 189.927†	6.1	4.2	0.7387 ug/L	0.7387 ppb	21:54:16
1	Ti 334.940†	-1254.8	112.8	0.1798 ug/L	0.1798 ppb	21:53:56
1	Tl 190.801†	-32.8	2.2	0.6558 ug/L	0.6558 ppb	21:54:16
1	U 409.014†	-2082.0	-162.6	-4.7816 ug/L	-4.7816 ppb	21:53:56
1	V 292.402†	-1356.7	39.2	0.2634 ug/L	0.2634 ppb	21:53:56
1	Zn 213.857†	660.0	17.7	0.1699 ug/L	0.1699 ppb	21:54:16
1	SiO2†	563.5	89.5	6.0355 ug/L	6.0355 ppb	21:55:12
2	Sc Radial	5277.1	5277.1	103 %		21:53:04
2	Y RADIAL	5648.1	5648.1	102.6 %		21:53:04
2	Al 396.153Radial†	23.4	28.9	23.070 ug/L	23.070 ppb	21:53:04
2	Ca 317.933Radial†	21.6	1.8	2.8633 ug/L	2.8633 ppb	21:53:24
2	Fe 238.204 Radial†	9.6	-2.2	-18.901 ug/L	-18.901 ppb	21:53:24
2	K 766.490 Radial†	2825.2	230.0	41.897 ug/L	41.897 ppb	21:53:04
2	Mg 279.077 IEC†	-1.7	-4.7	-156.81 ug/L	-156.81 ppb	21:53:24
2	Na 589.592 Radial†	-1442.1	-90.6	-25.957 ug/L	-25.957 ppb	21:53:04
2	Sr 421.552†	-18.6	-27.8	-0.1774 ug/L	-0.1774 ppb	21:53:04
2	Sc 361.383	872194.2	872194.2	101.65 %		21:54:21
2	Y 371.029	739541.7	739541.7	101.63 %		21:54:21
2	Ag 328.068†	332.0	-30.4	-0.1407 ug/L	-0.1407 ppb	21:54:21
2	As 188.979†	-30.2	-5.8	-2.4685 ug/L	-2.4685 ppb	21:54:41
2	B 249.677†	-408.8	212.9	4.7812 ug/L	4.7812 ppb	21:54:41
2	Ba 233.527†	-23.6	-14.6	-0.1135 ug/L	-0.1135 ppb	21:54:41
2	Be 313.107†	-4387.2	158.4	0.0599 ug/L	0.0599 ppb	21:54:21
2	Cd 226.502†	-191.1	13.7	0.1512 ug/L	0.1512 ppb	21:54:41
2	Co 228.616†	-66.3	12.0	0.2440 ug/L	0.2440 ppb	21:54:41
2	Cr 267.716†	58.5	-21.4	-0.2355 ug/L	-0.2355 ppb	21:54:41
2	Cu 324.752†	6342.8	-162.3	-0.4827 ug/L	-0.4827 ppb	21:54:21
2	Mn 257.610†	451.6	14.5	0.0204 ug/L	0.0204 ppb	21:54:41
2	Mo 202.031†	25.1	3.1	0.2140 ug/L	0.2140 ppb	21:54:41
2	Ni 231.604†	64.2	-3.9	-0.0957 ug/L	-0.0957 ppb	21:54:41

2	P 214.914†	234.5	10.4	6.3486 ug/L	6.3486 ppb	21:54:41
2	Pb 220.353†	-68.6	-5.3	-0.6329 ug/L	-0.6329 ppb	21:54:41
2	S 181.975 Axial†	42.5	-2.1	-2.9003 ug/L	-2.9003 ppb	21:54:41
2	Sb 206.836†	34.3	0.3	0.0921 ug/L	0.0921 ppb	21:54:41
2	Se 196.026†	-27.9	4.6	2.8306 ug/L	2.8306 ppb	21:54:41
2	Si 251.611†	554.0	84.4	2.6676 ug/L	2.6676 ppb	21:54:41
2	Sn 189.927†	-2.7	-4.3	-0.7526 ug/L	-0.7526 ppb	21:54:41
2	Ti 334.940†	-1357.4	-1.3	0.0132 ug/L	0.0132 ppb	21:54:21
2	Tl 190.801†	-35.7	-1.1	-0.3225 ug/L	-0.3225 ppb	21:54:41
2	U 409.014†	-2053.5	-156.3	-4.5999 ug/L	-4.5999 ppb	21:54:21
2	V 292.402†	-1343.9	37.6	0.2495 ug/L	0.2495 ppb	21:54:21
2	Zn 213.857†	656.0	20.7	0.1977 ug/L	0.1977 ppb	21:54:41
2	SiO2†	572.1	103.8	6.9944 ug/L	6.9944 ppb	21:55:17
3	Sc Radial	5319.5	5319.5	104 %		21:53:29
3	Y RADIAL	5702.0	5702.0	103.6 %		21:53:29
3	Al 396.153Radial†	15.1	20.7	16.579 ug/L	16.579 ppb	21:53:29
3	Ca 317.933Radial†	14.3	-5.5	-8.8704 ug/L	-8.8704 ppb	21:53:49
3	Fe 238.204 Radial†	9.8	-2.1	-17.855 ug/L	-17.855 ppb	21:53:49
3	K 766.490 Radial†	2899.9	280.1	51.016 ug/L	51.016 ppb	21:53:29
3	Mg 279.077 IEC†	2.7	-0.4	-14.926 ug/L	-14.926 ppb	21:53:49
3	Na 589.592 Radial†	-1406.6	-45.2	-12.945 ug/L	-12.945 ppb	21:53:29
3	Sr 421.552†	-7.8	-17.2	-0.1101 ug/L	-0.1101 ppb	21:53:29
3	Sc 361.383	869534.2	869534.2	101.34 %		21:54:47
3	Y 371.029	736544.1	736544.1	101.22 %		21:54:47
3	Ag 328.068†	286.4	-74.4	-0.3439 ug/L	-0.3439 ppb	21:54:47
3	As 188.979†	-20.7	3.5	1.4909 ug/L	1.4909 ppb	21:55:07
3	B 249.677†	-398.0	222.3	4.9935 ug/L	4.9935 ppb	21:55:07
3	Ba 233.527†	-4.4	4.2	0.0318 ug/L	0.0318 ppb	21:55:07
3	Be 313.107†	-4348.2	183.8	0.0691 ug/L	0.0691 ppb	21:54:47
3	Cd 226.502†	-188.1	16.0	0.1771 ug/L	0.1771 ppb	21:55:07
3	Co 228.616†	-84.6	-6.3	-0.1274 ug/L	-0.1274 ppb	21:55:07
3	Cr 267.716†	80.1	0.1	0.0027 ug/L	0.0027 ppb	21:55:07
3	Cu 324.752†	6298.7	-186.8	-0.5553 ug/L	-0.5553 ppb	21:54:47
3	Mn 257.610†	457.6	21.8	0.0227 ug/L	0.0227 ppb	21:55:07
3	Mo 202.031†	17.7	-4.2	-0.2953 ug/L	-0.2953 ppb	21:55:07
3	Ni 231.604†	47.1	-20.5	-0.5073 ug/L	-0.5073 ppb	21:55:07
3	P 214.914†	224.4	1.2	0.8692 ug/L	0.8692 ppb	21:55:07
3	Pb 220.353†	-72.5	-9.3	-1.1234 ug/L	-1.1234 ppb	21:55:07
3	S 181.975 Axial†	44.7	0.2	0.3400 ug/L	0.3400 ppb	21:55:07
3	Sb 206.836†	38.0	4.1	1.4070 ug/L	1.4070 ppb	21:55:07
3	Se 196.026†	-35.8	-3.3	-2.1462 ug/L	-2.1462 ppb	21:55:07
3	Si 251.611†	567.6	99.4	3.1507 ug/L	3.1507 ppb	21:55:07
3	Sn 189.927†	12.6	10.8	1.8752 ug/L	1.8752 ppb	21:55:07
3	Ti 334.940†	-1439.1	-86.0	-0.1355 ug/L	-0.1355 ppb	21:54:47
3	Tl 190.801†	-32.9	1.6	0.4875 ug/L	0.4875 ppb	21:55:07
3	U 409.014†	-2061.1	-170.0	-5.0030 ug/L	-5.0030 ppb	21:54:47
3	V 292.402†	-1410.9	-32.5	-0.2317 ug/L	-0.2317 ppb	21:54:47
3	Zn 213.857†	653.7	20.5	0.1979 ug/L	0.1979 ppb	21:55:07
3	SiO2†	546.1	79.9	5.3944 ug/L	5.3944 ppb	21:55:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	874436.5	101.91 %	0.738			0.72%
Sc Radial	5471.9	107 %	5.9			5.51%
Y 371.029	741050.7	101.84 %	0.745			0.73%
Y RADIAL	5858.1	106.4 %	5.78			5.43%
Ag 328.068†	-53.3	-0.2481 ug/L	0.10214	-0.2481 ppb	0.10214	41.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	15.1	12.063 ug/L	13.8303	12.063 ppb	13.8303	114.65%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	0.4185 ug/L	2.52758	0.4185 ppb	2.52758	603.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	213.8	4.8024 ug/L	0.18139	4.8024 ppb	0.18139	3.78%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.7	-0.0140 ug/L	0.08621	-0.0140 ppb	0.08621	614.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	203.3	0.0768 ug/L	0.02188	0.0768 ppb	0.02188	28.48%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.2	-1.8933 ug/L	6.17397	-1.8933 ppb	6.17397	326.10%

QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	16.4 0.1815 ug/L	0.03274 0.1815 ppb	0.03274 18.04%
QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	-0.6 -0.0114 ug/L	0.22150 -0.0114 ppb	0.22150 >999.9%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-7.2 -0.0786 ug/L	0.13591 -0.0786 ppb	0.13591 172.94%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-188.7 -0.5616 ug/L	0.08230 -0.5616 ppb	0.08230 14.65%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-3.0 -25.574 ug/L	12.4743 -25.574 ppb	12.4743 48.78%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	197.2 35.911 ug/L	18.8253 35.911 ppb	18.8253 52.42%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-1.4 -44.926 ug/L	100.3040 -44.926 ppb	100.3040 223.27%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	15.9 0.0167 ug/L	0.00846 0.0167 ppb	0.00846 50.53%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-0.4 -0.0306 ug/L	0.25525 -0.0306 ppb	0.25525 834.19%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-25.0 -7.1754 ug/L	22.23534 -7.1754 ppb	22.23534 309.88%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-6.1 -0.1504 ug/L	0.33290 -0.1504 ppb	0.33290 221.31%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	1.7 1.2035 ug/L	4.98642 1.2035 ppb	4.98642 414.34%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-2.3 -0.2742 ug/L	1.07446 -0.2742 ppb	1.07446 391.85%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-1.8 -2.5483 ug/L	2.72929 -2.5483 ppb	2.72929 107.10%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.9 2.0266 ug/L	2.30751 2.0266 ppb	2.30751 113.86%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-0.6 -0.4386 ug/L	2.83216 -0.4386 ppb	2.83216 645.75%
QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	90.6 2.8683 ug/L	0.25170 2.8683 ppb	0.25170 8.78%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	3.6 0.6204 ug/L	1.31785 0.6204 ppb	1.31785 212.41%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-16.9 -0.1079 ug/L	0.07055 -0.1079 ppb	0.07055 65.36%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	8.5 0.0192 ug/L	0.15774 0.0192 ppb	0.15774 822.37%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.9 0.2736 ug/L	0.52306 0.2736 ppb	0.52306 191.17%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-163.0 -4.7948 ug/L	0.20187 -4.7948 ppb	0.20187 4.21%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	14.8 0.0937 ug/L	0.28192 0.0937 ppb	0.28192 300.76%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	19.6 0.1885 ug/L	0.01609 0.1885 ppb	0.01609 8.54%
QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	91.0 6.1414 ug/L	0.80522 6.1414 ppb	0.80522 13.11%
QC value within limits for SiO2	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 56

Sample ID: 243626004|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 78

Date Collected: 1/12/2010 21:57:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626004|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5275.0	5275.0	103 %		21:59:46
1	Y RADIAL	6174.3	6174.3	112.1 %		21:59:46
1	Al 396.153Radial†	149306.0	144950.9	115930 ug/L	115930 ppb	21:59:26
1	Ca 317.933Radial†	11947.5	11579.3	18692 ug/L	18692 ppb	21:59:26
1	Fe 238.204 Radial†	14575.8	14138.5	120220 ug/L	120220 ppb	21:59:26
1	K 766.490 Radial†	108395.7	102717.9	18698 ug/L	18698 ppb	21:59:26
1	Mg 279.077 IEC†	584.0	563.9	18601 ug/L	18601 ppb	21:59:46
1	Na 589.592 Radial†	632.1	1922.5	551.10 ug/L	551.10 ppb	21:59:26
1	Sr 421.552†	37799.2	36685.3	234.08 ug/L	234.08 ppb	21:59:26
1	Sc 361.383	856971.9	856971.9	99.872 %		22:00:49
1	Y 371.029	792355.6	792355.6	108.89 %		22:00:49
1	Ag 328.068†	-7536.3	-7903.1	3.7184 ug/L	3.7184 ppb	22:00:49
1	As 188.979†	-94.4	-70.6	44.536 ug/L	44.536 ppb	22:01:09
1	B 249.677†	1275.8	1892.5	22.784 ug/L	22.784 ppb	22:00:49
1	Ba 233.527†	214653.1	214937.1	1669.6 ug/L	1669.6 ppb	22:00:49
1	Be 313.107†	-12805.2	-8347.0	9.0481 ug/L	9.0481 ppb	22:00:49
1	Cd 226.502†	987.1	1190.0	0.6898 ug/L	0.6898 ppb	22:01:09
1	Co 228.616†	2873.8	2954.7	47.711 ug/L	47.711 ppb	22:01:09
1	Cr 267.716†	8456.7	8388.6	95.831 ug/L	95.831 ppb	22:01:09
1	Cu 324.752†	29991.1	23627.2	76.930 ug/L	76.930 ppb	22:00:49
1	Mn 257.610†	3112227.8	3115791.4	3428.1 ug/L	3428.1 ppb	22:00:44
1	Mo 202.031†	-29.3	-51.0	5.9991 ug/L	5.9991 ppb	22:01:09
1	Ni 231.604†	2964.5	2901.3	71.761 ug/L	71.761 ppb	22:01:09
1	P 214.914†	2117.5	1899.9	1055.7 ug/L	1055.7 ppb	22:01:09
1	Pb 220.353†	806.0	869.3	120.98 ug/L	120.98 ppb	22:01:09
1	S 181.975 Axial†	644.7	601.7	815.59 ug/L	815.59 ppb	22:01:09
1	Sb 206.836†	79.4	46.1	-3.4810 ug/L	-3.4810 ppb	22:01:09
1	Se 196.026†	-568.1	-536.7	24.969 ug/L	24.969 ppb	22:01:09
1	Si 251.611†	1038083.9	1038955.2	32890 ug/L	32890 ppb	22:00:44
1	Sn 189.927†	-121.8	-123.7	-16.379 ug/L	-16.379 ppb	22:01:09
1	Ti 334.940†	3350872.4	3356506.1	5375.7 ug/L	5375.7 ppb	22:00:44
1	Tl 190.801†	-234.7	-201.0	-0.4897 ug/L	-0.4897 ppb	22:01:09
1	U 409.014†	-6969.5	-5114.5	-164.48 ug/L	-164.48 ppb	22:00:49
1	V 292.402†	36618.8	38025.5	232.55 ug/L	232.55 ppb	22:00:49
1	Zn 213.857†	27507.9	26918.5	240.48 ug/L	240.48 ppb	22:01:09
1	SiO2†	1039003.8	1039878.0	70138 ug/L	70138 ppb	22:02:19
2	Sc Radial	5273.7	5273.7	103 %		22:00:11
2	Y RADIAL	6159.7	6159.7	111.9 %		22:00:11
2	Al 396.153Radial†	148447.2	144153.0	115290 ug/L	115290 ppb	21:59:51
2	Ca 317.933Radial†	11858.3	11495.6	18557 ug/L	18557 ppb	21:59:51
2	Fe 238.204 Radial†	14417.0	13987.8	118940 ug/L	118940 ppb	21:59:51
2	K 766.490 Radial†	107739.3	102106.7	18587 ug/L	18587 ppb	21:59:51
2	Mg 279.077 IEC†	583.0	563.1	18573 ug/L	18573 ppb	22:00:11
2	Na 589.592 Radial†	617.3	1908.3	547.01 ug/L	547.01 ppb	21:59:51
2	Sr 421.552†	37531.0	36434.0	232.48 ug/L	232.48 ppb	21:59:51
2	Sc 361.383	858616.2	858616.2	100.06 %		22:01:21
2	Y 371.029	796318.1	796318.1	109.43 %		22:01:21
2	Ag 328.068†	-7579.8	-7932.1	3.1692 ug/L	3.1692 ppb	22:01:21
2	As 188.979†	-93.7	-69.7	44.325 ug/L	44.325 ppb	22:01:41
2	B 249.677†	1207.5	1821.9	21.408 ug/L	21.408 ppb	22:01:21
2	Ba 233.527†	215080.5	214952.7	1669.7 ug/L	1669.7 ppb	22:01:21
2	Be 313.107†	-12998.8	-8515.9	8.9057 ug/L	8.9057 ppb	22:01:21
2	Cd 226.502†	1007.8	1208.8	1.0292 ug/L	1.0292 ppb	22:01:41
2	Co 228.616†	2851.7	2927.1	47.243 ug/L	47.243 ppb	22:01:41
2	Cr 267.716†	8497.4	8413.1	96.076 ug/L	96.076 ppb	22:01:41
2	Cu 324.752†	29843.8	23422.4	76.249 ug/L	76.249 ppb	22:01:21
2	Mn 257.610†	3097363.0	3094968.3	3405.1 ug/L	3405.1 ppb	22:01:15
2	Mo 202.031†	-16.9	-38.5	6.7687 ug/L	6.7687 ppb	22:01:41
2	Ni 231.604†	2957.6	2888.7	71.450 ug/L	71.450 ppb	22:01:41

2	P 214.914†	2101.8	1880.2	1044.9 ug/L	1044.9 ppb	22:01:41
2	Pb 220.353†	789.5	851.2	118.77 ug/L	118.77 ppb	22:01:41
2	S 181.975 Axial†	636.8	592.5	802.91 ug/L	802.91 ppb	22:01:41
2	Sb 206.836†	79.7	46.2	-3.3009 ug/L	-3.3009 ppb	22:01:41
2	Se 196.026†	-578.0	-545.6	15.549 ug/L	15.549 ppb	22:01:41
2	Si 251.611†	1031884.4	1030769.1	32630 ug/L	32630 ppb	22:01:15
2	Sn 189.927†	-112.6	-114.2	-14.773 ug/L	-14.773 ppb	22:01:41
2	Ti 334.940†	3335659.6	3334877.7	5341.0 ug/L	5341.0 ppb	22:01:15
2	Tl 190.801†	-234.9	-200.6	-0.7820 ug/L	-0.7820 ppb	22:01:41
2	U 409.014†	-6867.2	-4999.0	-160.93 ug/L	-160.93 ppb	22:01:21
2	V 292.402†	36678.8	38015.3	232.75 ug/L	232.75 ppb	22:01:21
2	Zn 213.857†	27585.4	26943.3	240.84 ug/L	240.84 ppb	22:01:41
2	SiO2†	1044901.4	1043779.5	70401 ug/L	70401 ppb	22:02:24
3	Sc Radial	5337.7	5337.7	104 %		22:00:36
3	Y RADIAL	6263.4	6263.4	113.8 %		22:00:36
3	Al 396.153Radial†	149712.4	143639.1	114880 ug/L	114880 ppb	22:00:16
3	Ca 317.933Radial†	11923.9	11420.5	18436 ug/L	18436 ppb	22:00:16
3	Fe 238.204 Radial†	14500.3	13899.9	118190 ug/L	118190 ppb	22:00:16
3	K 766.490 Radial†	108287.1	101378.2	18454 ug/L	18454 ppb	22:00:16
3	Mg 279.077 IEC†	586.5	559.6	18459 ug/L	18459 ppb	22:00:36
3	Na 589.592 Radial†	583.6	1868.8	535.69 ug/L	535.69 ppb	22:00:16
3	Sr 421.552†	37760.6	36217.4	231.09 ug/L	231.09 ppb	22:00:16
3	Sc 361.383	861853.0	861853.0	100.44 %		22:01:52
3	Y 371.029	800368.3	800368.3	109.99 %		22:01:52
3	Ag 328.068†	-7521.3	-7845.4	3.3199 ug/L	3.3199 ppb	22:01:52
3	As 188.979†	-95.7	-71.3	43.294 ug/L	43.294 ppb	22:02:12
3	B 249.677†	1245.3	1855.0	22.274 ug/L	22.274 ppb	22:01:52
3	Ba 233.527†	214977.2	214042.5	1662.6 ug/L	1662.6 ppb	22:01:52
3	Be 313.107†	-13129.7	-8597.4	8.8280 ug/L	8.8280 ppb	22:01:52
3	Cd 226.502†	1002.8	1200.1	1.0101 ug/L	1.0101 ppb	22:02:12
3	Co 228.616†	2842.3	2907.1	46.886 ug/L	46.886 ppb	22:02:12
3	Cr 267.716†	8479.1	8362.9	95.503 ug/L	95.503 ppb	22:02:12
3	Cu 324.752†	29940.4	23406.6	76.162 ug/L	76.162 ppb	22:01:52
3	Mn 257.610†	3095782.8	3081769.9	3390.6 ug/L	3390.6 ppb	22:01:47
3	Mo 202.031†	-27.2	-48.7	5.9980 ug/L	5.9980 ppb	22:02:12
3	Ni 231.604†	2961.5	2881.5	71.271 ug/L	71.271 ppb	22:02:12
3	P 214.914†	2089.5	1860.0	1033.3 ug/L	1033.3 ppb	22:02:12
3	Pb 220.353†	766.0	824.8	115.55 ug/L	115.55 ppb	22:02:12
3	S 181.975 Axial†	645.7	599.0	812.11 ug/L	812.11 ppb	22:02:12
3	Sb 206.836†	79.0	45.2	-3.5548 ug/L	-3.5548 ppb	22:02:12
3	Se 196.026†	-580.5	-545.9	13.128 ug/L	13.128 ppb	22:02:12
3	Si 251.611†	1031262.3	1026276.8	32488 ug/L	32488 ppb	22:01:47
3	Sn 189.927†	-102.6	-103.8	-12.993 ug/L	-12.993 ppb	22:02:12
3	Ti 334.940†	3335286.0	3321986.1	5320.4 ug/L	5320.4 ppb	22:01:47
3	Tl 190.801†	-243.1	-207.9	-3.2155 ug/L	-3.2155 ppb	22:02:12
3	U 409.014†	-6873.4	-4979.3	-160.27 ug/L	-160.27 ppb	22:01:52
3	V 292.402†	36625.7	37824.7	231.59 ug/L	231.59 ppb	22:01:52
3	Zn 213.857†	27557.0	26811.5	239.67 ug/L	239.67 ppb	22:02:12
3	SiO2†	1038692.7	1033676.3	69720 ug/L	69720 ppb	22:02:30

Mean Data: 243626004|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859147.1	100.13 %	0.289			0.29%
Sc Radial	5295.5	103 %	0.7			0.69%
Y 371.029	796347.3	109.44 %	0.551			0.50%
Y RADIAL	6199.1	112.6 %	1.02			0.91%
Ag 328.068†	-7893.5	3.4025 ug/L	0.28372	3.4025 ppb	0.28372	8.34%
Al 396.153Radial†	144247.7	115370 ug/L	528.7	115370 ppb	528.7	0.46%
As 188.979†	-70.5	44.052 ug/L	0.6649	44.052 ppb	0.6649	1.51%
B 249.677†	1856.5	22.155 ug/L	0.6954	22.155 ppb	0.6954	3.14%
Ba 233.527†	214644.1	1667.3 ug/L	4.06	1667.3 ppb	4.06	0.24%
Be 313.107†	-8486.8	8.9273 ug/L	0.11163	8.9273 ppb	0.11163	1.25%
Ca 317.933Radial†	11498.4	18561 ug/L	128.3	18561 ppb	128.3	0.69%
Cd 226.502†	1199.6	0.9097 ug/L	0.19069	0.9097 ppb	0.19069	20.96%
Co 228.616†	2929.6	47.280 ug/L	0.4138	47.280 ppb	0.4138	0.88%
Cr 267.716†	8388.2	95.804 ug/L	0.2877	95.804 ppb	0.2877	0.30%
Cu 324.752†	23485.4	76.447 ug/L	0.4202	76.447 ppb	0.4202	0.55%
Fe 238.204 Radial†	14008.7	119120 ug/L	1025.9	119120 ppb	1025.9	0.86%
K 766.490 Radial†	102067.6	18579 ug/L	122.1	18579 ppb	122.1	0.66%

Mg 279.077 IEC†	562.2	18544 ug/L	75.4	18544 ppb	75.4	0.41%
Mn 257.610†	3097509.9	3407.9 ug/L	18.91	3407.9 ppb	18.91	0.55%
Mo 202.031†	-46.0	6.2553 ug/L	0.44468	6.2553 ppb	0.44468	7.11%
Na 589.592 Radial†	1899.9	544.60 ug/L	7.981	544.60 ppb	7.981	1.47%
Ni 231.604†	2890.5	71.494 ug/L	0.2479	71.494 ppb	0.2479	0.35%
P 214.914†	1880.0	1044.6 ug/L	11.20	1044.6 ppb	11.20	1.07%
Pb 220.353†	848.4	118.43 ug/L	2.732	118.43 ppb	2.732	2.31%
S 181.975 Axial†	597.7	810.20 ug/L	6.550	810.20 ppb	6.550	0.81%
Sb 206.836†	45.8	-3.4456 ug/L	0.13059	-3.4456 ppb	0.13059	3.79%
Se 196.026†	-542.8	17.882 ug/L	6.2560	17.882 ppb	6.2560	34.98%
Si 251.611†	1032000.4	32669 ug/L	203.5	32669 ppb	203.5	0.62%
Sn 189.927†	-113.9	-14.715 ug/L	1.6937	-14.715 ppb	1.6937	11.51%
Sr 421.552†	36445.6	232.55 ug/L	1.494	232.55 ppb	1.494	0.64%
Ti 334.940†	3337790.0	5345.7 ug/L	27.94	5345.7 ppb	27.94	0.52%
Tl 190.801†	-203.2	-1.4957 ug/L	1.49649	-1.4957 ppb	1.49649	100.05%
U 409.014†	-5030.9	-161.89 ug/L	2.265	-161.89 ppb	2.265	1.40%
V 292.402†	37955.2	232.30 ug/L	0.621	232.30 ppb	0.621	0.27%
Zn 213.857†	26891.1	240.33 ug/L	0.596	240.33 ppb	0.596	0.25%
SiO2†	1039111.2	70087 ug/L	343.6	70087 ppb	343.6	0.49%

Sequence No.: 57

Sample ID: 243626005|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 1/12/2010 22:04:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626005|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5366.6	5366.6	105 %		22:06:54
1	Y RADIAL	5958.4	5958.4	108.2 %		22:06:54
1	Al 396.153Radial†	57748.6	55111.3	44077 ug/L	44077 ppb	22:06:34
1	Ca 317.933Radial†	10907.8	10389.2	16771 ug/L	16771 ppb	22:06:34
1	Fe 238.204 Radial†	9400.8	8958.9	76177 ug/L	76177 ppb	22:06:34
1	K 766.490 Radial†	61576.6	56246.3	10236 ug/L	10236 ppb	22:06:34
1	Mg 279.077 IEC†	322.9	305.0	10050 ug/L	10050 ppb	22:06:54
1	Na 589.592 Radial†	1423.8	2667.5	764.65 ug/L	764.65 ppb	22:06:34
1	Sr 421.552†	21532.2	20536.8	130.99 ug/L	130.99 ppb	22:06:34
1	Sc 361.383	886652.1	886652.1	103.33 %		22:07:52
1	Y 371.029	774379.6	774379.6	106.42 %		22:07:52
1	Ag 328.068†	-4686.9	-4892.9	2.8295 ug/L	2.8295 ppb	22:07:57
1	As 188.979†	-82.8	-56.2	19.675 ug/L	19.675 ppb	22:08:17
1	B 249.677†	444.6	1045.4	11.003 ug/L	11.003 ppb	22:07:57
1	Ba 233.527†	113334.5	109689.8	852.59 ug/L	852.59 ppb	22:07:57
1	Be 313.107†	-14502.3	-9560.2	3.1596 ug/L	3.1596 ppb	22:07:57
1	Cd 226.502†	571.7	754.9	0.4565 ug/L	0.4565 ppb	22:08:17
1	Co 228.616†	1535.5	1563.3	24.740 ug/L	24.740 ppb	22:08:17
1	Cr 267.716†	7427.3	7108.9	80.622 ug/L	80.622 ppb	22:07:57
1	Cu 324.752†	24029.3	16852.3	54.344 ug/L	54.344 ppb	22:07:57
1	Mn 257.610†	1975568.2	1911457.5	2103.3 ug/L	2103.3 ppb	22:07:52
1	Mo 202.031†	-13.0	-34.2	3.7252 ug/L	3.7252 ppb	22:08:17
1	Ni 231.604†	2314.8	2173.2	53.761 ug/L	53.761 ppb	22:08:17
1	P 214.914†	4970.1	4589.6	2692.8 ug/L	2692.8 ppb	22:08:17
1	Pb 220.353†	467.7	514.8	65.555 ug/L	65.555 ppb	22:08:17
1	S 181.975 Axial†	752.2	684.1	943.77 ug/L	943.77 ppb	22:08:17
1	Sb 206.836†	74.7	38.9	3.1609 ug/L	3.1609 ppb	22:08:17
1	Se 196.026†	-371.9	-327.9	21.984 ug/L	21.984 ppb	22:08:17
1	Si 251.611†	872300.6	843722.0	26709 ug/L	26709 ppb	22:07:52
1	Sn 189.927†	-126.2	-123.8	-17.474 ug/L	-17.474 ppb	22:08:17
1	Ti 334.940†	1923416.1	1862750.4	2984.2 ug/L	2984.2 ppb	22:07:52
1	Tl 190.801†	-156.6	-117.4	-1.1440 ug/L	-1.1440 ppb	22:08:17
1	U 409.014†	-4440.3	-2433.3	-80.494 ug/L	-80.494 ppb	22:07:57
1	V 292.402†	24597.5	25164.3	155.06 ug/L	155.06 ppb	22:07:57
1	Zn 213.857†	19078.8	17839.2	159.66 ug/L	159.66 ppb	22:07:57
1	SiO2†	874950.4	846288.0	57081 ug/L	57081 ppb	22:09:26
2	Sc Radial	5399.2	5399.2	105 %		22:07:20
2	Y RADIAL	5989.6	5989.6	108.8 %		22:07:20
2	Al 396.153Radial†	59163.1	56120.4	44884 ug/L	44884 ppb	22:06:59
2	Ca 317.933Radial†	11123.1	10530.7	16999 ug/L	16999 ppb	22:06:59
2	Fe 238.204 Radial†	9571.3	9066.5	77091 ug/L	77091 ppb	22:06:59
2	K 766.490 Radial†	62945.2	57189.9	10408 ug/L	10408 ppb	22:06:59
2	Mg 279.077 IEC†	323.8	304.0	10015 ug/L	10015 ppb	22:07:20
2	Na 589.592 Radial†	1479.0	2711.7	777.31 ug/L	777.31 ppb	22:06:59
2	Sr 421.552†	22115.2	20965.7	133.73 ug/L	133.73 ppb	22:06:59
2	Sc 361.383	900130.1	900130.1	104.90 %		22:08:23
2	Y 371.029	786678.3	786678.3	108.11 %		22:08:23
2	Ag 328.068†	-4682.7	-4821.0	3.4506 ug/L	3.4506 ppb	22:08:28
2	As 188.979†	-84.2	-56.4	19.818 ug/L	19.818 ppb	22:08:48
2	B 249.677†	499.6	1091.3	11.886 ug/L	11.886 ppb	22:08:28
2	Ba 233.527†	114638.7	109290.8	849.53 ug/L	849.53 ppb	22:08:28
2	Be 313.107†	-14896.6	-9725.9	3.1007 ug/L	3.1007 ppb	22:08:28
2	Cd 226.502†	590.7	764.7	0.4683 ug/L	0.4683 ppb	22:08:48
2	Co 228.616†	1553.2	1557.9	24.613 ug/L	24.613 ppb	22:08:48
2	Cr 267.716†	7475.0	7046.7	79.950 ug/L	79.950 ppb	22:08:28
2	Cu 324.752†	24267.8	16731.5	54.033 ug/L	54.033 ppb	22:08:28
2	Mn 257.610†	2003678.4	1909626.9	2101.4 ug/L	2101.4 ppb	22:08:23
2	Mo 202.031†	-10.1	-31.3	4.0035 ug/L	4.0035 ppb	22:08:48
2	Ni 231.604†	2287.5	2113.6	52.286 ug/L	52.286 ppb	22:08:48

2	P 214.914†	4957.9	4506.0	2642.2 ug/L	2642.2 ppb	22:08:48
2	Pb 220.353†	445.0	486.4	62.231 ug/L	62.231 ppb	22:08:48
2	S 181.975 Axial†	770.6	690.8	952.88 ug/L	952.88 ppb	22:08:48
2	Sb 206.836†	62.7	26.4	-1.1138 ug/L	-1.1138 ppb	22:08:48
2	Se 196.026†	-369.2	-319.9	29.775 ug/L	29.775 ppb	22:08:48
2	Si 251.611†	884733.6	842933.8	26684 ug/L	26684 ppb	22:08:23
2	Sn 189.927†	-132.7	-128.1	-18.167 ug/L	-18.167 ppb	22:08:48
2	Ti 334.940†	1953734.5	1863780.5	2985.9 ug/L	2985.9 ppb	22:08:23
2	Tl 190.801†	-148.9	-107.9	1.7513 ug/L	1.7513 ppb	22:08:48
2	U 409.014†	-4563.4	-2486.3	-82.156 ug/L	-82.156 ppb	22:08:28
2	V 292.402†	24868.4	25066.2	154.24 ug/L	154.24 ppb	22:08:28
2	Zn 213.857†	19262.1	17737.4	158.63 ug/L	158.63 ppb	22:08:28
2	SiO2†	869235.9	828161.9	55858 ug/L	55858 ppb	22:09:31
3	Sc Radial	5350.1	5350.1	104 %		22:07:45
3	Y RADIAL	5950.5	5950.5	108.1 %		22:07:45
3	Al 396.153Radial†	57569.7	55110.1	44076 ug/L	44076 ppb	22:07:25
3	Ca 317.933Radial†	10789.2	10307.8	16639 ug/L	16639 ppb	22:07:25
3	Fe 238.204 Radial†	9321.8	8911.0	75769 ug/L	75769 ppb	22:07:25
3	K 766.490 Radial†	61305.4	56168.0	10222 ug/L	10222 ppb	22:07:25
3	Mg 279.077 IEC†	325.6	308.6	10170 ug/L	10170 ppb	22:07:45
3	Na 589.592 Radial†	1357.9	2608.6	747.76 ug/L	747.76 ppb	22:07:25
3	Sr 421.552†	21440.7	20512.6	130.84 ug/L	130.84 ppb	22:07:25
3	Sc 361.383	898286.6	898286.6	104.69 %		22:08:54
3	Y 371.029	786512.7	786512.7	108.09 %		22:08:54
3	Ag 328.068†	-4770.0	-4913.5	2.6035 ug/L	2.6035 ppb	22:08:59
3	As 188.979†	-79.4	-51.9	21.464 ug/L	21.464 ppb	22:09:19
3	B 249.677†	494.6	1087.6	12.019 ug/L	12.019 ppb	22:08:59
3	Ba 233.527†	114264.9	109158.0	848.46 ug/L	848.46 ppb	22:08:59
3	Be 313.107†	-14945.1	-9801.4	3.0870 ug/L	3.0870 ppb	22:08:59
3	Cd 226.502†	595.2	770.2	0.6659 ug/L	0.6659 ppb	22:09:19
3	Co 228.616†	1520.6	1529.8	24.049 ug/L	24.049 ppb	22:09:19
3	Cr 267.716†	7475.4	7061.8	80.092 ug/L	80.092 ppb	22:08:59
3	Cu 324.752†	24130.1	16647.4	53.713 ug/L	53.713 ppb	22:08:59
3	Mn 257.610†	2005472.4	1915260.4	2107.5 ug/L	2107.5 ppb	22:08:54
3	Mo 202.031†	-4.4	-25.9	4.2757 ug/L	4.2757 ppb	22:09:19
3	Ni 231.604†	2315.3	2144.6	53.054 ug/L	53.054 ppb	22:09:19
3	P 214.914†	4951.2	4509.2	2645.1 ug/L	2645.1 ppb	22:09:19
3	Pb 220.353†	462.1	503.6	64.243 ug/L	64.243 ppb	22:09:19
3	S 181.975 Axial†	756.0	678.3	935.63 ug/L	935.63 ppb	22:09:19
3	Sb 206.836†	59.3	23.2	-2.1723 ug/L	-2.1723 ppb	22:09:19
3	Se 196.026†	-376.5	-327.6	20.961 ug/L	20.961 ppb	22:09:19
3	Si 251.611†	886191.3	846057.1	26783 ug/L	26783 ppb	22:08:54
3	Sn 189.927†	-127.4	-123.3	-17.414 ug/L	-17.414 ppb	22:09:19
3	Ti 334.940†	1954000.4	1867856.6	2992.3 ug/L	2992.3 ppb	22:08:54
3	Tl 190.801†	-160.2	-119.0	-1.5144 ug/L	-1.5144 ppb	22:09:19
3	U 409.014†	-4588.9	-2519.6	-82.988 ug/L	-82.988 ppb	22:08:59
3	V 292.402†	24811.0	25060.0	154.41 ug/L	154.41 ppb	22:08:59
3	Zn 213.857†	19149.9	17667.9	158.10 ug/L	158.10 ppb	22:08:59
3	SiO2†	880921.5	841024.8	56726 ug/L	56726 ppb	22:09:37

Mean Data: 243626005|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	895022.9	104.31 %	0.852			0.82%
Sc Radial	5371.9	105 %	0.5			0.46%
Y 371.029	782523.5	107.54 %	0.969			0.90%
Y RADIAL	5966.2	108.4 %	0.38			0.35%
Ag 328.068†	-4875.8	2.9612 ug/L	0.43864	2.9612 ppb	0.43864	14.81%
Al 396.153Radial†	55447.3	44345 ug/L	466.2	44345 ppb	466.2	1.05%
As 188.979†	-54.8	20.319 ug/L	0.9945	20.319 ppb	0.9945	4.89%
B 249.677†	1074.8	11.636 ug/L	0.5522	11.636 ppb	0.5522	4.75%
Ba 233.527†	109379.5	850.19 ug/L	2.146	850.19 ppb	2.146	0.25%
Be 313.107†	-9695.8	3.1157 ug/L	0.03856	3.1157 ppb	0.03856	1.24%
Ca 317.933Radial†	10409.2	16803 ug/L	182.0	16803 ppb	182.0	1.08%
Cd 226.502†	763.3	0.5302 ug/L	0.11761	0.5302 ppb	0.11761	22.18%
Co 228.616†	1550.3	24.468 ug/L	0.3677	24.468 ppb	0.3677	1.50%
Cr 267.716†	7072.5	80.221 ug/L	0.3543	80.221 ppb	0.3543	0.44%
Cu 324.752†	16743.7	54.030 ug/L	0.3158	54.030 ppb	0.3158	0.58%
Fe 238.204 Radial†	8978.8	76346 ug/L	677.2	76346 ppb	677.2	0.89%
K 766.490 Radial†	56534.7	10289 ug/L	103.5	10289 ppb	103.5	1.01%

Mg 279.077 IEC†	305.9	10078 ug/L	81.1	10078 ppb	81.1	0.80%
Mn 257.610†	1912114.9	2104.1 ug/L	3.09	2104.1 ppb	3.09	0.15%
Mo 202.031†	-30.5	4.0015 ug/L	0.27526	4.0015 ppb	0.27526	6.88%
Na 589.592 Radial†	2662.6	763.24 ug/L	14.825	763.24 ppb	14.825	1.94%
Ni 231.604†	2143.8	53.034 ug/L	0.7377	53.034 ppb	0.7377	1.39%
P 214.914†	4534.9	2660.0 ug/L	28.44	2660.0 ppb	28.44	1.07%
Pb 220.353†	501.6	64.010 ug/L	1.6744	64.010 ppb	1.6744	2.62%
S 181.975 Axial†	684.4	944.09 ug/L	8.632	944.09 ppb	8.632	0.91%
Sb 206.836†	29.5	-0.0418 ug/L	2.82360	-0.0418 ppb	2.82360	>999.9%
Se 196.026†	-325.1	24.240 ug/L	4.8206	24.240 ppb	4.8206	19.89%
Si 251.611†	844237.6	26725 ug/L	51.4	26725 ppb	51.4	0.19%
Sn 189.927†	-125.1	-17.685 ug/L	0.4182	-17.685 ppb	0.4182	2.36%
Sr 421.552†	20671.7	131.85 ug/L	1.626	131.85 ppb	1.626	1.23%
Ti 334.940†	1864795.8	2987.5 ug/L	4.30	2987.5 ppb	4.30	0.14%
Tl 190.801†	-114.8	-0.3023 ug/L	1.78815	-0.3023 ppb	1.78815	591.43%
U 409.014†	-2479.7	-81.879 ug/L	1.2698	-81.879 ppb	1.2698	1.55%
V 292.402†	25096.8	154.57 ug/L	0.430	154.57 ppb	0.430	0.28%
Zn 213.857†	17748.2	158.80 ug/L	0.795	158.80 ppb	0.795	0.50%
SiO2†	838491.6	56555 ug/L	628.9	56555 ppb	628.9	1.11%

Sequence No.: 58

Sample ID: 243626006|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 80

Date Collected: 1/12/2010 22:11:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626006|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5355.0	5355.0	105 %		22:14:01
1	Y RADIAL	6266.2	6266.2	113.8 %		22:14:01
1	Al 396.153Radial†	144942.5	138613.7	110860 ug/L	110860 ppb	22:13:41
1	Ca 317.933Radial†	11771.7	11238.0	18141 ug/L	18141 ppb	22:13:41
1	Fe 238.204 Radial†	14599.0	13949.4	118610 ug/L	118610 ppb	22:13:41
1	K 766.490 Radial†	100298.1	93402.8	17001 ug/L	17001 ppb	22:13:41
1	Mg 279.077 IEC†	552.3	525.1	17313 ug/L	17313 ppb	22:14:01
1	Na 589.592 Radial†	1266.0	2519.6	722.24 ug/L	722.24 ppb	22:13:41
1	Sr 421.552†	36350.0	34751.5	221.74 ug/L	221.74 ppb	22:13:41
1	Sc 361.383	862820.6	862820.6	100.55 %		22:15:05
1	Y 371.029	791930.4	791930.4	108.83 %		22:15:05
1	Ag 328.068†	-7776.2	-8090.5	2.4419 ug/L	2.4419 ppb	22:15:05
1	As 188.979†	-106.1	-81.6	42.729 ug/L	42.729 ppb	22:15:25
1	B 249.677†	1229.6	1837.9	21.794 ug/L	21.794 ppb	22:15:05
1	Ba 233.527†	220552.4	219347.1	1703.8 ug/L	1703.8 ppb	22:15:05
1	Be 313.107†	-15469.7	-10909.9	8.9299 ug/L	8.9299 ppb	22:15:05
1	Cd 226.502†	995.1	1191.2	0.8860 ug/L	0.8860 ppb	22:15:25
1	Co 228.616†	3339.9	3398.8	55.948 ug/L	55.948 ppb	22:15:25
1	Cr 267.716†	14334.8	14177.0	160.05 ug/L	160.05 ppb	22:15:25
1	Cu 324.752†	25592.3	19049.0	63.194 ug/L	63.194 ppb	22:15:05
1	Mn 257.610†	3705063.4	3684240.5	4051.4 ug/L	4051.4 ppb	22:14:59
1	Mo 202.031†	-36.9	-58.3	5.3534 ug/L	5.3534 ppb	22:15:25
1	Ni 231.604†	4211.1	4120.9	101.94 ug/L	101.94 ppb	22:15:25
1	P 214.914†	2074.3	1842.6	1024.6 ug/L	1024.6 ppb	22:15:25
1	Pb 220.353†	861.2	918.7	125.93 ug/L	125.93 ppb	22:15:25
1	S 181.975 Axial†	624.0	576.7	781.84 ug/L	781.84 ppb	22:15:25
1	Sb 206.836†	88.2	54.3	-1.7264 ug/L	-1.7264 ppb	22:15:25
1	Se 196.026†	-591.8	-556.5	7.5196 ug/L	7.5196 ppb	22:15:25
1	Si 251.611†	1031847.4	1025707.3	32470 ug/L	32470 ppb	22:14:59
1	Sn 189.927†	-108.9	-109.9	-14.107 ug/L	-14.107 ppb	22:15:25
1	Ti 334.940†	3608862.1	3590332.6	5750.1 ug/L	5750.1 ppb	22:14:59
1	Tl 190.801†	-262.1	-226.6	-2.2218 ug/L	-2.2218 ppb	22:15:25
1	U 409.014†	-7426.7	-5521.9	-176.43 ug/L	-176.43 ppb	22:15:05
1	V 292.402†	39711.1	40852.3	251.50 ug/L	251.50 ppb	22:15:05
1	Zn 213.857†	26411.2	25641.2	228.47 ug/L	228.47 ppb	22:15:25
1	SiO2†	1038321.5	1032147.4	69617 ug/L	69617 ppb	22:16:34
2	Sc Radial	5364.7	5364.7	105 %		22:14:27
2	Y RADIAL	6277.5	6277.5	114.0 %		22:14:27
2	Al 396.153Radial†	147466.7	140772.8	112590 ug/L	112590 ppb	22:14:07
2	Ca 317.933Radial†	11947.2	11385.1	18379 ug/L	18379 ppb	22:14:07
2	Fe 238.204 Radial†	14855.9	14169.4	120480 ug/L	120480 ppb	22:14:07
2	K 766.490 Radial†	102209.7	95054.3	17302 ug/L	17302 ppb	22:14:07
2	Mg 279.077 IEC†	559.9	531.4	17521 ug/L	17521 ppb	22:14:27
2	Na 589.592 Radial†	1358.6	2605.8	746.96 ug/L	746.96 ppb	22:14:07
2	Sr 421.552†	37121.1	35424.8	226.03 ug/L	226.03 ppb	22:14:07
2	Sc 361.383	870176.7	870176.7	101.41 %		22:15:36
2	Y 371.029	798633.0	798633.0	109.75 %		22:15:36
2	Ag 328.068†	-7715.7	-7965.4	3.6147 ug/L	3.6147 ppb	22:15:36
2	As 188.979†	-91.9	-66.7	49.765 ug/L	49.765 ppb	22:15:57
2	B 249.677†	1116.4	1716.0	18.755 ug/L	18.755 ppb	22:15:36
2	Ba 233.527†	222195.4	219113.0	1702.0 ug/L	1702.0 ppb	22:15:36
2	Be 313.107†	-15867.9	-11172.5	8.8953 ug/L	8.8953 ppb	22:15:36
2	Cd 226.502†	1024.3	1211.7	0.9185 ug/L	0.9185 ppb	22:15:57
2	Co 228.616†	3344.3	3375.0	55.379 ug/L	55.379 ppb	22:15:57
2	Cr 267.716†	14381.2	14102.2	159.26 ug/L	159.26 ppb	22:15:57
2	Cu 324.752†	25654.7	18895.4	62.832 ug/L	62.832 ppb	22:15:36
2	Mn 257.610†	3752684.9	3700050.9	4068.9 ug/L	4068.9 ppb	22:15:31
2	Mo 202.031†	-26.8	-48.1	6.2172 ug/L	6.2172 ppb	22:15:57
2	Ni 231.604†	4193.8	4068.4	100.64 ug/L	100.64 ppb	22:15:57

2	P 214.914†	2078.4	1829.1	1015.6 ug/L	1015.6 ppb	22:15:57
2	Pb 220.353†	880.6	930.5	127.59 ug/L	127.59 ppb	22:15:57
2	S 181.975 Axial†	623.9	571.3	774.02 ug/L	774.02 ppb	22:15:57
2	Sb 206.836†	102.2	67.4	2.6292 ug/L	2.6292 ppb	22:15:57
2	Se 196.026†	-587.0	-546.8	19.278 ug/L	19.278 ppb	22:15:57
2	Si 251.611†	1045588.2	1030582.2	32624 ug/L	32624 ppb	22:15:31
2	Sn 189.927†	-101.0	-101.3	-12.532 ug/L	-12.532 ppb	22:15:57
2	Ti 334.940†	3657666.4	3608118.3	5778.6 ug/L	5778.6 ppb	22:15:31
2	Tl 190.801†	-249.7	-212.1	2.4800 ug/L	2.4800 ppb	22:15:57
2	U 409.014†	-7301.2	-5335.8	-171.16 ug/L	-171.16 ppb	22:15:36
2	V 292.402†	40092.6	40894.6	251.48 ug/L	251.48 ppb	22:15:36
2	Zn 213.857†	26500.7	25507.4	227.04 ug/L	227.04 ppb	22:15:57
2	SiO2†	1032045.1	1017229.2	68611 ug/L	68611 ppb	22:16:40
3	Sc Radial	5336.1	5336.1	104 %		22:14:52
3	Y RADIAL	6255.9	6255.9	113.6 %		22:14:52
3	Al 396.153Radial†	144932.2	139093.8	111240 ug/L	111240 ppb	22:14:32
3	Ca 317.933Radial†	11758.1	11264.8	18184 ug/L	18184 ppb	22:14:32
3	Fe 238.204 Radial†	14615.1	14014.2	119160 ug/L	119160 ppb	22:14:32
3	K 766.490 Radial†	100608.5	94039.9	17117 ug/L	17117 ppb	22:14:32
3	Mg 279.077 IEC†	555.6	530.2	17481 ug/L	17481 ppb	22:14:52
3	Na 589.592 Radial†	1359.0	2613.1	749.05 ug/L	749.05 ppb	22:14:32
3	Sr 421.552†	36436.8	34957.7	223.05 ug/L	223.05 ppb	22:14:32
3	Sc 361.383	860644.5	860644.5	100.30 %		22:16:08
3	Y 371.029	791157.1	791157.1	108.73 %		22:16:08
3	Ag 328.068†	-7636.6	-7970.9	3.1680 ug/L	3.1680 ppb	22:16:08
3	As 188.979†	-102.3	-78.1	44.743 ug/L	44.743 ppb	22:16:28
3	B 249.677†	1125.6	1737.4	19.447 ug/L	19.447 ppb	22:16:08
3	Ba 233.527†	219335.9	218688.8	1698.7 ug/L	1698.7 ppb	22:16:08
3	Be 313.107†	-15327.1	-10806.6	9.0729 ug/L	9.0729 ppb	22:16:08
3	Cd 226.502†	998.6	1197.2	0.8951 ug/L	0.8951 ppb	22:16:28
3	Co 228.616†	3345.4	3412.6	56.120 ug/L	56.120 ppb	22:16:28
3	Cr 267.716†	14403.3	14281.3	161.22 ug/L	161.22 ppb	22:16:28
3	Cu 324.752†	25649.6	19170.5	63.585 ug/L	63.585 ppb	22:16:08
3	Mn 257.610†	3725155.0	3713588.5	4083.6 ug/L	4083.6 ppb	22:16:03
3	Mo 202.031†	-40.7	-62.2	5.1286 ug/L	5.1286 ppb	22:16:28
3	Ni 231.604†	4205.7	4126.1	102.07 ug/L	102.07 ppb	22:16:28
3	P 214.914†	2081.4	1854.9	1031.5 ug/L	1031.5 ppb	22:16:28
3	Pb 220.353†	878.0	937.5	128.25 ug/L	128.25 ppb	22:16:28
3	S 181.975 Axial†	646.8	601.0	815.52 ug/L	815.52 ppb	22:16:28
3	Sb 206.836†	85.8	52.1	-2.6627 ug/L	-2.6627 ppb	22:16:28
3	Se 196.026†	-586.4	-552.6	11.604 ug/L	11.604 ppb	22:16:28
3	Si 251.611†	1039195.7	1035628.3	32784 ug/L	32784 ppb	22:16:03
3	Sn 189.927†	-117.2	-118.5	-15.588 ug/L	-15.588 ppb	22:16:28
3	Ti 334.940†	3628460.1	3618946.7	5795.9 ug/L	5795.9 ppb	22:16:03
3	Tl 190.801†	-248.9	-214.0	2.1055 ug/L	2.1055 ppb	22:16:28
3	U 409.014†	-7392.0	-5506.0	-176.03 ug/L	-176.03 ppb	22:16:08
3	V 292.402†	39619.5	40860.8	251.42 ug/L	251.42 ppb	22:16:08
3	Zn 213.857†	26565.0	25860.9	230.48 ug/L	230.48 ppb	22:16:28
3	SiO2†	1037424.5	1033864.0	69733 ug/L	69733 ppb	22:16:46

Mean Data: 243626006|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864547.3	100.75 %	0.582			0.58%
Sc Radial	5351.9	105 %	0.3			0.27%
Y 371.029	793906.8	109.10 %	0.565			0.52%
Y RADIAL	6266.6	113.8 %	0.20			0.17%
Ag 328.068†	-8008.9	3.0749 ug/L	0.59195	3.0749 ppb	0.59195	19.25%
Al 396.153Radial†	139493.4	111560 ug/L	906.7	111560 ppb	906.7	0.81%
As 188.979†	-75.4	45.746 ug/L	3.6234	45.746 ppb	3.6234	7.92%
B 249.677†	1763.7	19.998 ug/L	1.5927	19.998 ppb	1.5927	7.96%
Ba 233.527†	219049.6	1701.5 ug/L	2.58	1701.5 ppb	2.58	0.15%
Be 313.107†	-10963.0	8.9660 ug/L	0.09417	8.9660 ppb	0.09417	1.05%
Ca 317.933Radial†	11296.0	18235 ug/L	126.5	18235 ppb	126.5	0.69%
Cd 226.502†	1200.1	0.8999 ug/L	0.01678	0.8999 ppb	0.01678	1.86%
Co 228.616†	3395.5	55.815 ug/L	0.3880	55.815 ppb	0.3880	0.70%
Cr 267.716†	14186.8	160.18 ug/L	0.987	160.18 ppb	0.987	0.62%
Cu 324.752†	19038.3	63.204 ug/L	0.3769	63.204 ppb	0.3769	0.60%
Fe 238.204 Radial†	14044.3	119420 ug/L	961.2	119420 ppb	961.2	0.80%
K 766.490 Radial†	94165.7	17140 ug/L	151.6	17140 ppb	151.6	0.88%

Mg 279.077 IEC†	528.9	17438 ug/L	110.5	17438 ppb	110.5	0.63%
Mn 257.610†	3699293.3	4068.0 ug/L	16.14	4068.0 ppb	16.14	0.40%
Mo 202.031†	-56.2	5.5664 ug/L	0.57471	5.5664 ppb	0.57471	10.32%
Na 589.592 Radial†	2579.5	739.42 ug/L	14.911	739.42 ppb	14.911	2.02%
Ni 231.604†	4105.1	101.55 ug/L	0.789	101.55 ppb	0.789	0.78%
P 214.914†	1842.2	1023.9 ug/L	7.99	1023.9 ppb	7.99	0.78%
Pb 220.353†	928.9	127.26 ug/L	1.195	127.26 ppb	1.195	0.94%
S 181.975 Axial†	583.0	790.46 ug/L	22.050	790.46 ppb	22.050	2.79%
Sb 206.836†	57.9	-0.5866 ug/L	2.82408	-0.5866 ppb	2.82408	481.41%
Se 196.026†	-551.9	12.801 ug/L	5.9697	12.801 ppb	5.9697	46.64%
Si 251.611†	1030639.3	32626 ug/L	157.0	32626 ppb	157.0	0.48%
Sn 189.927†	-109.9	-14.076 ug/L	1.5284	-14.076 ppb	1.5284	10.86%
Sr 421.552†	35044.7	223.61 ug/L	2.202	223.61 ppb	2.202	0.98%
Ti 334.940†	3605799.2	5774.9 ug/L	23.13	5774.9 ppb	23.13	0.40%
Tl 190.801†	-217.6	0.7879 ug/L	2.61317	0.7879 ppb	2.61317	331.67%
U 409.014†	-5454.6	-174.54 ug/L	2.932	-174.54 ppb	2.932	1.68%
V 292.402†	40869.2	251.47 ug/L	0.042	251.47 ppb	0.042	0.02%
Zn 213.857†	25669.8	228.66 ug/L	1.726	228.66 ppb	1.726	0.76%
SiO2†	1027746.9	69320 ug/L	617.1	69320 ppb	617.1	0.89%

Sequence No.: 59

Sample ID: 243626007|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 1/12/2010 22:18:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626007|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5242.6	5242.6	102 %		22:21:11
1	Y RADIAL	5914.3	5914.3	107.4 %		22:21:11
1	Al 396.153Radial†	84066.8	82122.5	65679 ug/L	65679 ppb	22:20:51
1	Ca 317.933Radial†	12888.4	12570.1	20291 ug/L	20291 ppb	22:20:51
1	Fe 238.204 Radial†	11280.3	11007.0	93591 ug/L	93591 ppb	22:20:51
1	K 766.490 Radial†	79190.0	74841.2	13621 ug/L	13621 ppb	22:20:51
1	Mg 279.077 IEC†	452.5	438.9	14478 ug/L	14478 ppb	22:21:11
1	Na 589.592 Radial†	1908.1	3172.7	909.47 ug/L	909.47 ppb	22:20:51
1	Sr 421.552†	25986.9	25374.2	161.85 ug/L	161.85 ppb	22:20:51
1	Sc 361.383	892782.3	892782.3	104.05 %		22:22:08
1	Y 371.029	793830.7	793830.7	109.09 %		22:22:08
1	Ag 328.068†	-5767.6	-5900.4	4.0450 ug/L	4.0450 ppb	22:22:13
1	As 188.979†	-102.9	-74.9	24.843 ug/L	24.843 ppb	22:22:33
1	B 249.677†	709.2	1296.8	13.776 ug/L	13.776 ppb	22:22:13
1	Ba 233.527†	174869.9	168079.7	1305.6 ug/L	1305.6 ppb	22:22:13
1	Be 313.107†	-17349.7	-12200.5	4.5521 ug/L	4.5521 ppb	22:22:13
1	Cd 226.502†	763.1	935.1	0.6890 ug/L	0.6890 ppb	22:22:33
1	Co 228.616†	2279.0	2267.7	36.733 ug/L	36.733 ppb	22:22:33
1	Cr 267.716†	21997.1	21062.9	235.86 ug/L	235.86 ppb	22:22:13
1	Cu 324.752†	29394.3	21849.0	70.185 ug/L	70.185 ppb	22:22:13
1	Mn 257.610†	3433859.4	3299923.6	3627.6 ug/L	3627.6 ppb	22:22:08
1	Mo 202.031†	35.2	12.2	8.3550 ug/L	8.3550 ppb	22:22:33
1	Ni 231.604†	5883.0	5587.2	138.24 ug/L	138.24 ppb	22:22:33
1	P 214.914†	3769.8	3403.0	1968.2 ug/L	1968.2 ppb	22:22:33
1	Pb 220.353†	540.8	582.0	77.116 ug/L	77.116 ppb	22:22:33
1	S 181.975 Axial†	589.7	522.9	715.38 ug/L	715.38 ppb	22:22:33
1	Sb 206.836†	74.1	37.8	-0.8398 ug/L	-0.8398 ppb	22:22:33
1	Se 196.026†	-468.3	-418.1	18.051 ug/L	18.051 ppb	22:22:33
1	Si 251.611†	990712.7	951733.8	30128 ug/L	30128 ppb	22:22:08
1	Sn 189.927†	-139.6	-135.8	-18.682 ug/L	-18.682 ppb	22:22:33
1	Ti 334.940†	2620786.1	2520226.0	4037.1 ug/L	4037.1 ppb	22:22:08
1	Tl 190.801†	-221.8	-179.1	-3.9158 ug/L	-3.9158 ppb	22:22:33
1	U 409.014†	-5275.4	-3206.4	-105.59 ug/L	-105.59 ppb	22:22:13
1	V 292.402†	32461.8	32559.4	201.28 ug/L	201.28 ppb	22:22:13
1	Zn 213.857†	22046.9	20565.1	183.00 ug/L	183.00 ppb	22:22:13
1	SiO2†	983376.0	944684.0	63718 ug/L	63718 ppb	22:23:42
2	Sc Radial	5286.5	5286.5	103 %		22:21:36
2	Y RADIAL	5980.5	5980.5	108.6 %		22:21:36
2	Al 396.153Radial†	84556.8	81914.9	65513 ug/L	65513 ppb	22:21:16
2	Ca 317.933Radial†	12976.8	12551.2	20261 ug/L	20261 ppb	22:21:16
2	Fe 238.204 Radial†	11367.4	10999.8	93530 ug/L	93530 ppb	22:21:16
2	K 766.490 Radial†	79715.3	74707.3	13596 ug/L	13596 ppb	22:21:16
2	Mg 279.077 IEC†	450.5	433.3	14292 ug/L	14292 ppb	22:21:36
2	Na 589.592 Radial†	1936.3	3184.6	912.86 ug/L	912.86 ppb	22:21:16
2	Sr 421.552†	26269.2	25436.8	162.25 ug/L	162.25 ppb	22:21:16
2	Sc 361.383	885673.9	885673.9	103.22 %		22:22:39
2	Y 371.029	788411.3	788411.3	108.35 %		22:22:39
2	Ag 328.068†	-5818.9	-5994.7	3.6146 ug/L	3.6146 ppb	22:22:44
2	As 188.979†	-96.0	-69.0	27.383 ug/L	27.383 ppb	22:23:05
2	B 249.677†	711.1	1304.0	13.948 ug/L	13.948 ppb	22:22:44
2	Ba 233.527†	176734.1	171234.7	1330.1 ug/L	1330.1 ppb	22:22:44
2	Be 313.107†	-17358.1	-12342.5	4.5058 ug/L	4.5058 ppb	22:22:44
2	Cd 226.502†	726.4	905.4	0.3692 ug/L	0.3692 ppb	22:23:05
2	Co 228.616†	2273.4	2279.7	36.982 ug/L	36.982 ppb	22:23:05
2	Cr 267.716†	22216.3	21445.0	240.10 ug/L	240.10 ppb	22:22:44
2	Cu 324.752†	29647.4	22321.0	71.590 ug/L	71.590 ppb	22:22:44
2	Mn 257.610†	3412907.3	3306113.0	3634.4 ug/L	3634.4 ppb	22:22:39
2	Mo 202.031†	38.5	15.7	8.5972 ug/L	8.5972 ppb	22:23:05
2	Ni 231.604†	5874.2	5624.1	139.15 ug/L	139.15 ppb	22:23:05

2	P 214.914†	3741.7	3404.8	1969.0 ug/L	1969.0 ppb	22:23:05
2	Pb 220.353†	520.8	566.8	75.246 ug/L	75.246 ppb	22:23:05
2	S 181.975 Axial†	587.6	525.4	718.86 ug/L	718.86 ppb	22:23:05
2	Sb 206.836†	73.6	37.9	-0.8141 ug/L	-0.8141 ppb	22:23:05
2	Se 196.026†	-461.2	-414.8	19.942 ug/L	19.942 ppb	22:23:05
2	Si 251.611†	983801.7	952680.5	30158 ug/L	30158 ppb	22:22:39
2	Sn 189.927†	-145.4	-142.6	-19.859 ug/L	-19.859 ppb	22:23:05
2	Ti 334.940†	2602018.8	2522260.1	4040.3 ug/L	4040.3 ppb	22:22:39
2	Tl 190.801†	-208.2	-167.6	-0.3899 ug/L	-0.3899 ppb	22:23:05
2	U 409.014†	-5298.0	-3269.0	-107.43 ug/L	-107.43 ppb	22:22:44
2	V 292.402†	32863.8	33199.3	205.62 ug/L	205.62 ppb	22:22:44
2	Zn 213.857†	22336.2	21015.4	187.23 ug/L	187.23 ppb	22:22:44
2	SiO2†	977024.3	946116.0	63814 ug/L	63814 ppb	22:23:48
3	Sc Radial	5254.8	5254.8	103 %		22:22:01
3	Y RADIAL	5951.4	5951.4	108.1 %		22:22:01
3	Al 396.153Radial†	85219.6	83054.7	66425 ug/L	66425 ppb	22:21:41
3	Ca 317.933Radial†	13038.9	12687.5	20481 ug/L	20481 ppb	22:21:41
3	Fe 238.204 Radial†	11415.0	11112.6	94490 ug/L	94490 ppb	22:21:41
3	K 766.490 Radial†	80203.2	75648.4	13767 ug/L	13767 ppb	22:21:41
3	Mg 279.077 IEC†	455.4	440.8	14539 ug/L	14539 ppb	22:22:01
3	Na 589.592 Radial†	1895.7	3156.3	904.75 ug/L	904.75 ppb	22:21:41
3	Sr 421.552†	26415.0	25732.3	164.14 ug/L	164.14 ppb	22:21:41
3	Sc 361.383	894044.3	894044.3	104.19 %		22:23:10
3	Y 371.029	794649.7	794649.7	109.21 %		22:23:10
3	Ag 328.068†	-5901.0	-6020.6	3.7977 ug/L	3.7977 ppb	22:23:16
3	As 188.979†	-91.4	-63.8	29.683 ug/L	29.683 ppb	22:23:36
3	B 249.677†	693.4	1280.7	13.270 ug/L	13.270 ppb	22:23:16
3	Ba 233.527†	176394.2	169305.4	1315.2 ug/L	1315.2 ppb	22:23:16
3	Be 313.107†	-17219.2	-12051.7	4.5746 ug/L	4.5746 ppb	22:23:16
3	Cd 226.502†	763.7	934.6	0.5893 ug/L	0.5893 ppb	22:23:36
3	Co 228.616†	2258.3	2244.7	36.288 ug/L	36.288 ppb	22:23:36
3	Cr 267.716†	22164.6	21193.8	237.34 ug/L	237.34 ppb	22:23:16
3	Cu 324.752†	29631.4	22036.8	70.796 ug/L	70.796 ppb	22:23:16
3	Mn 257.610†	3428689.1	3290302.6	3617.1 ug/L	3617.1 ppb	22:23:10
3	Mo 202.031†	34.4	11.4	8.3729 ug/L	8.3729 ppb	22:23:36
3	Ni 231.604†	5886.5	5582.6	138.12 ug/L	138.12 ppb	22:23:36
3	P 214.914†	3761.7	3390.0	1959.8 ug/L	1959.8 ppb	22:23:36
3	Pb 220.353†	534.7	575.4	76.406 ug/L	76.406 ppb	22:23:36
3	S 181.975 Axial†	597.3	529.4	724.34 ug/L	724.34 ppb	22:23:36
3	Sb 206.836†	87.9	51.0	3.6732 ug/L	3.6732 ppb	22:23:36
3	Se 196.026†	-460.6	-410.0	25.806 ug/L	25.806 ppb	22:23:36
3	Si 251.611†	989473.8	949200.7	30048 ug/L	30048 ppb	22:23:10
3	Sn 189.927†	-143.4	-139.3	-19.232 ug/L	-19.232 ppb	22:23:36
3	Ti 334.940†	2614834.9	2510958.6	4022.2 ug/L	4022.2 ppb	22:23:10
3	Tl 190.801†	-209.1	-166.6	-0.3195 ug/L	-0.3195 ppb	22:23:36
3	U 409.014†	-5542.5	-3455.7	-113.03 ug/L	-113.03 ppb	22:23:16
3	V 292.402†	32831.1	32869.8	203.24 ug/L	203.24 ppb	22:23:16
3	Zn 213.857†	22236.2	20716.8	184.34 ug/L	184.34 ppb	22:23:16
3	SiO2†	982201.8	942222.9	63552 ug/L	63552 ppb	22:23:54

Mean Data: 243626007|937483|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	890833.5	103.82 %		0.526			0.51%
Sc Radial	5261.3	103 %		0.4			0.43%
Y 371.029	792297.2	108.88 %		0.466			0.43%
Y RADIAL	5948.7	108.1 %		0.60			0.56%
Ag 328.068†	-5971.9	3.8191 ug/L		0.21598	3.8191 ppb	0.21598	5.66%
Al 396.153Radial†	82364.0	65872 ug/L		485.5	65872 ppb	485.5	0.74%
As 188.979†	-69.3	27.303 ug/L		2.4211	27.303 ppb	2.4211	8.87%
B 249.677†	1293.8	13.665 ug/L		0.3523	13.665 ppb	0.3523	2.58%
Ba 233.527†	169539.9	1317.0 ug/L		12.33	1317.0 ppb	12.33	0.94%
Be 313.107†	-12198.2	4.5442 ug/L		0.03507	4.5442 ppb	0.03507	0.77%
Ca 317.933Radial†	12602.9	20344 ug/L		119.2	20344 ppb	119.2	0.59%
Cd 226.502†	925.1	0.5492 ug/L		0.16365	0.5492 ppb	0.16365	29.80%
Co 228.616†	2264.0	36.668 ug/L		0.3517	36.668 ppb	0.3517	0.96%
Cr 267.716†	21233.9	237.77 ug/L		2.155	237.77 ppb	2.155	0.91%
Cu 324.752†	22068.9	70.857 ug/L		0.7048	70.857 ppb	0.7048	0.99%
Fe 238.204 Radial†	11039.8	93870 ug/L		537.0	93870 ppb	537.0	0.57%
K 766.490 Radial†	75065.6	13661 ug/L		92.7	13661 ppb	92.7	0.68%

Mg 279.077 IEC†	437.7	14436 ug/L	128.5	14436 ppb	128.5	0.89%
Mn 257.610†	3298779.7	3626.3 ug/L	8.69	3626.3 ppb	8.69	0.24%
Mo 202.031†	13.1	8.4417 ug/L	0.13497	8.4417 ppb	0.13497	1.60%
Na 589.592 Radial†	3171.2	909.03 ug/L	4.076	909.03 ppb	4.076	0.45%
Ni 231.604†	5598.0	138.50 ug/L	0.562	138.50 ppb	0.562	0.41%
P 214.914†	3399.2	1965.7 ug/L	5.12	1965.7 ppb	5.12	0.26%
Pb 220.353†	574.7	76.256 ug/L	0.9445	76.256 ppb	0.9445	1.24%
S 181.975 Axial†	525.9	719.53 ug/L	4.516	719.53 ppb	4.516	0.63%
Sb 206.836†	42.2	0.6731 ug/L	2.59819	0.6731 ppb	2.59819	386.02%
Se 196.026†	-414.3	21.267 ug/L	4.0436	21.267 ppb	4.0436	19.01%
Si 251.611†	951205.0	30112 ug/L	57.0	30112 ppb	57.0	0.19%
Sn 189.927†	-139.2	-19.258 ug/L	0.5891	-19.258 ppb	0.5891	3.06%
Sr 421.552†	25514.4	162.75 ug/L	1.220	162.75 ppb	1.220	0.75%
Ti 334.940†	2517814.9	4033.2 ug/L	9.64	4033.2 ppb	9.64	0.24%
Tl 190.801†	-171.1	-1.5417 ug/L	2.05629	-1.5417 ppb	2.05629	133.38%
U 409.014†	-3310.3	-108.68 ug/L	3.876	-108.68 ppb	3.876	3.57%
V 292.402†	32876.2	203.38 ug/L	2.173	203.38 ppb	2.173	1.07%
Zn 213.857†	20765.8	184.86 ug/L	2.160	184.86 ppb	2.160	1.17%
SiO2†	944341.0	63694 ug/L	132.8	63694 ppb	132.8	0.21%

Sequence No.: 60

Sample ID: 243626008|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 82

Date Collected: 1/12/2010 22:26:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626008|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5353.1	5353.1	105 %		22:28:17
1	Y RADIAL	6367.4	6367.4	115.7 %		22:28:17
1	Al 396.153Radial†	170556.5	163164.3	130490 ug/L	130490 ppb	22:27:57
1	Ca 317.933Radial†	19138.2	18288.8	29523 ug/L	29523 ppb	22:27:57
1	Fe 238.204 Radial†	17273.4	16512.5	140410 ug/L	140410 ppb	22:27:57
1	K 766.490 Radial†	111237.0	103900.3	18909 ug/L	18909 ppb	22:27:57
1	Mg 279.077 IEC†	675.3	642.9	21203 ug/L	21203 ppb	22:28:17
1	Na 589.592 Radial†	1928.8	3154.0	904.10 ug/L	904.10 ppb	22:27:57
1	Sr 421.552†	50862.3	48646.2	310.36 ug/L	310.36 ppb	22:27:57
1	Sc 361.383	854761.1	854761.1	99.614 %		22:29:21
1	Y 371.029	803902.6	803902.6	110.48 %		22:29:21
1	Ag 328.068†	-9072.9	-9465.1	3.1947 ug/L	3.1947 ppb	22:29:21
1	As 188.979†	-104.6	-81.0	54.511 ug/L	54.511 ppb	22:29:41
1	B 249.677†	1520.7	2141.7	24.896 ug/L	24.896 ppb	22:29:21
1	Ba 233.527†	270121.7	271176.4	2106.1 ug/L	2106.1 ppb	22:29:21
1	Be 313.107†	-15086.8	-10670.6	10.709 ug/L	10.709 ppb	22:29:21
1	Cd 226.502†	1235.4	1441.8	1.3795 ug/L	1.3795 ppb	22:29:41
1	Co 228.616†	6372.9	6474.9	116.69 ug/L	116.69 ppb	22:29:41
1	Cr 267.716†	11010.4	10974.1	124.99 ug/L	124.99 ppb	22:29:41
1	Cu 324.752†	29478.4	23190.2	76.718 ug/L	76.718 ppb	22:29:21
1	Mn 257.610†	4180360.1	4196120.6	4614.8 ug/L	4614.8 ppb	22:29:15
1	Mo 202.031†	-84.1	-106.0	3.8527 ug/L	3.8527 ppb	22:29:41
1	Ni 231.604†	3783.9	3731.6	92.265 ug/L	92.265 ppb	22:29:41
1	P 214.914†	2306.1	2094.7	1160.3 ug/L	1160.3 ppb	22:29:41
1	Pb 220.353†	956.2	1022.1	141.14 ug/L	141.14 ppb	22:29:41
1	S 181.975 Axial†	697.2	656.1	888.56 ug/L	888.56 ppb	22:29:41
1	Sb 206.836†	83.0	49.9	-6.0598 ug/L	-6.0598 ppb	22:29:41
1	Se 196.026†	-700.0	-670.7	1.3295 ug/L	1.3295 ppb	22:29:41
1	Si 251.611†	835998.6	838775.7	26553 ug/L	26553 ppb	22:29:15
1	Sn 189.927†	-153.4	-155.7	-19.799 ug/L	-19.799 ppb	22:29:41
1	Ti 334.940†	4037821.7	4054794.1	6495.1 ug/L	6495.1 ppb	22:29:15
1	Tl 190.801†	-285.5	-252.5	-1.5256 ug/L	-1.5256 ppb	22:29:41
1	U 409.014†	-8404.1	-6572.7	-209.77 ug/L	-209.77 ppb	22:29:21
1	V 292.402†	43537.9	45066.3	275.72 ug/L	275.72 ppb	22:29:21
1	Zn 213.857†	29564.3	29054.1	258.44 ug/L	258.44 ppb	22:29:41
1	SiO2†	828090.3	830838.4	56039 ug/L	56039 ppb	22:30:50
2	Sc Radial	5314.7	5314.7	104 %		22:28:43
2	Y RADIAL	6340.2	6340.2	115.2 %		22:28:43
2	Al 396.153Radial†	172419.7	166139.1	132870 ug/L	132870 ppb	22:28:23
2	Ca 317.933Radial†	19291.4	18568.8	29975 ug/L	29975 ppb	22:28:23
2	Fe 238.204 Radial†	17455.4	16807.4	142910 ug/L	142910 ppb	22:28:23
2	K 766.490 Radial†	112281.9	105676.3	19232 ug/L	19232 ppb	22:28:23
2	Mg 279.077 IEC†	675.7	648.0	21370 ug/L	21370 ppb	22:28:43
2	Na 589.592 Radial†	1900.9	3140.5	900.23 ug/L	900.23 ppb	22:28:23
2	Sr 421.552†	51497.4	49610.0	316.51 ug/L	316.51 ppb	22:28:23
2	Sc 361.383	852269.7	852269.7	99.324 %		22:29:52
2	Y 371.029	801748.5	801748.5	110.18 %		22:29:52
2	Ag 328.068†	-9114.1	-9533.2	3.6961 ug/L	3.6961 ppb	22:29:52
2	As 188.979†	-102.6	-79.3	56.093 ug/L	56.093 ppb	22:30:13
2	B 249.677†	1605.3	2231.3	26.499 ug/L	26.499 ppb	22:29:52
2	Ba 233.527†	270366.0	272215.1	2114.2 ug/L	2114.2 ppb	22:29:52
2	Be 313.107†	-14869.4	-10495.9	10.844 ug/L	10.844 ppb	22:29:52
2	Cd 226.502†	1260.8	1471.0	1.4403 ug/L	1.4403 ppb	22:30:13
2	Co 228.616†	6364.6	6485.1	116.81 ug/L	116.81 ppb	22:30:13
2	Cr 267.716†	10981.3	10977.1	125.08 ug/L	125.08 ppb	22:30:13
2	Cu 324.752†	29366.7	23164.2	76.775 ug/L	76.775 ppb	22:29:52
2	Mn 257.610†	4188677.6	4216762.4	4637.6 ug/L	4637.6 ppb	22:29:47
2	Mo 202.031†	-81.5	-103.7	4.2175 ug/L	4.2175 ppb	22:30:13
2	Ni 231.604†	3761.1	3719.7	91.971 ug/L	91.971 ppb	22:30:13

2	P 214.914†	2297.2	2092.5	1157.6 ug/L	1157.6 ppb	22:30:13
2	Pb 220.353†	950.3	1019.0	141.08 ug/L	141.08 ppb	22:30:13
2	S 181.975 Axial†	699.4	660.3	894.02 ug/L	894.02 ppb	22:30:13
2	Sb 206.836†	108.6	75.9	2.6398 ug/L	2.6398 ppb	22:30:13
2	Se 196.026†	-690.3	-663.0	13.746 ug/L	13.746 ppb	22:30:13
2	Si 251.611†	837864.8	843107.9	26690 ug/L	26690 ppb	22:29:47
2	Sn 189.927†	-151.3	-154.0	-19.389 ug/L	-19.389 ppb	22:30:13
2	Ti 334.940†	4044972.2	4073842.7	6525.6 ug/L	6525.6 ppb	22:29:47
2	Tl 190.801†	-271.3	-239.0	2.9178 ug/L	2.9178 ppb	22:30:13
2	U 409.014†	-8496.2	-6690.1	-213.51 ug/L	-213.51 ppb	22:29:52
2	V 292.402†	43576.0	45232.4	276.41 ug/L	276.41 ppb	22:29:52
2	Zn 213.857†	29530.4	29106.8	258.69 ug/L	258.69 ppb	22:30:13
2	SiO2†	829738.9	834928.3	56315 ug/L	56315 ppb	22:30:56
3	Sc Radial	5382.5	5382.5	105 %		22:29:08
3	Y RADIAL	6395.5	6395.5	116.2 %		22:29:08
3	Al 396.153Radial†	171642.5	163307.7	130610 ug/L	130610 ppb	22:28:48
3	Ca 317.933Radial†	19213.5	18260.6	29477 ug/L	29477 ppb	22:28:48
3	Fe 238.204 Radial†	17306.3	16453.7	139910 ug/L	139910 ppb	22:28:48
3	K 766.490 Radial†	111594.2	103659.8	18865 ug/L	18865 ppb	22:28:48
3	Mg 279.077 IEC†	680.2	644.1	21241 ug/L	21241 ppb	22:29:08
3	Na 589.592 Radial†	1925.3	3140.6	900.26 ug/L	900.26 ppb	22:28:48
3	Sr 421.552†	50952.0	48466.2	309.21 ug/L	309.21 ppb	22:28:48
3	Sc 361.383	851479.6	851479.6	99.232 %		22:30:24
3	Y 371.029	802370.0	802370.0	110.27 %		22:30:24
3	Ag 328.068†	-9129.7	-9557.4	2.6145 ug/L	2.6145 ppb	22:30:24
3	As 188.979†	-93.0	-69.8	59.485 ug/L	59.485 ppb	22:30:44
3	B 249.677†	1524.3	2151.2	25.195 ug/L	25.195 ppb	22:30:24
3	Ba 233.527†	269603.0	271698.8	2110.1 ug/L	2110.1 ppb	22:30:24
3	Be 313.107†	-15291.4	-10935.1	10.688 ug/L	10.688 ppb	22:30:24
3	Cd 226.502†	1238.1	1449.3	1.5130 ug/L	1.5130 ppb	22:30:44
3	Co 228.616†	6272.8	6398.6	115.08 ug/L	115.08 ppb	22:30:44
3	Cr 267.716†	10877.5	10882.8	123.97 ug/L	123.97 ppb	22:30:44
3	Cu 324.752†	29407.2	23232.4	76.817 ug/L	76.817 ppb	22:30:24
3	Mn 257.610†	4182814.6	4214767.2	4635.1 ug/L	4635.1 ppb	22:30:19
3	Mo 202.031†	-71.9	-94.1	4.6443 ug/L	4.6443 ppb	22:30:44
3	Ni 231.604†	3726.1	3688.0	91.187 ug/L	91.187 ppb	22:30:44
3	P 214.914†	2262.2	2059.4	1139.5 ug/L	1139.5 ppb	22:30:44
3	Pb 220.353†	937.9	1007.4	139.43 ug/L	139.43 ppb	22:30:44
3	S 181.975 Axial†	692.1	653.6	885.12 ug/L	885.12 ppb	22:30:44
3	Sb 206.836†	68.3	35.4	-11.111 ug/L	-11.111 ppb	22:30:44
3	Se 196.026†	-690.2	-663.5	4.3515 ug/L	4.3515 ppb	22:30:44
3	Si 251.611†	837035.0	843054.5	26688 ug/L	26688 ppb	22:30:19
3	Sn 189.927†	-158.1	-161.0	-20.748 ug/L	-20.748 ppb	22:30:44
3	Ti 334.940†	4043855.8	4076496.5	6529.8 ug/L	6529.8 ppb	22:30:19
3	Tl 190.801†	-279.9	-247.9	0.2543 ug/L	0.2543 ppb	22:30:44
3	U 409.014†	-8352.3	-6553.1	-209.13 ug/L	-209.13 ppb	22:30:24
3	V 292.402†	43529.1	45225.8	276.86 ug/L	276.86 ppb	22:30:24
3	Zn 213.857†	29164.7	28765.9	255.79 ug/L	255.79 ppb	22:30:44
3	SiO2†	827329.0	833274.9	56203 ug/L	56203 ppb	22:31:02

Mean Data: 243626008|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852836.8	99.390 %	0.1996			0.20%
Sc Radial	5350.1	104 %	0.7			0.64%
Y 371.029	802673.7	110.31 %	0.152			0.14%
Y RADIAL	6367.7	115.7 %	0.50			0.43%
Ag 328.068†	-9518.6	3.1684 ug/L	0.54128	3.1684 ppb	0.54128	17.08%
Al 396.153Radial†	164203.7	131330 ug/L	1341.7	131330 ppb	1341.7	1.02%
As 188.979†	-76.7	56.696 ug/L	2.5412	56.696 ppb	2.5412	4.48%
B 249.677†	2174.8	25.530 ug/L	0.8529	25.530 ppb	0.8529	3.34%
Ba 233.527†	271696.8	2110.1 ug/L	4.06	2110.1 ppb	4.06	0.19%
Be 313.107†	-10700.6	10.747 ug/L	0.0848	10.747 ppb	0.0848	0.79%
Ca 317.933Radial†	18372.8	29658 ug/L	275.0	29658 ppb	275.0	0.93%
Cd 226.502†	1454.1	1.4443 ug/L	0.06687	1.4443 ppb	0.06687	4.63%
Co 228.616†	6452.9	116.19 ug/L	0.963	116.19 ppb	0.963	0.83%
Cr 267.716†	10944.7	124.68 ug/L	0.616	124.68 ppb	0.616	0.49%
Cu 324.752†	23195.6	76.770 ug/L	0.0498	76.770 ppb	0.0498	0.06%
Fe 238.204 Radial†	16591.2	141080 ug/L	1611.2	141080 ppb	1611.2	1.14%
K 766.490 Radial†	104412.1	19002 ug/L	200.5	19002 ppb	200.5	1.06%

Mg 279.077 IEC†	645.0	21271 ug/L	87.4	21271 ppb	87.4	0.41%
Mn 257.610†	4209216.7	4629.2 ug/L	12.55	4629.2 ppb	12.55	0.27%
Mo 202.031†	-101.3	4.2381 ug/L	0.39619	4.2381 ppb	0.39619	9.35%
Na 589.592 Radial†	3145.1	901.53 ug/L	2.226	901.53 ppb	2.226	0.25%
Ni 231.604†	3713.1	91.808 ug/L	0.5573	91.808 ppb	0.5573	0.61%
P 214.914†	2082.2	1152.4 ug/L	11.29	1152.4 ppb	11.29	0.98%
Pb 220.353†	1016.2	140.55 ug/L	0.970	140.55 ppb	0.970	0.69%
S 181.975 Axial†	656.7	889.23 ug/L	4.488	889.23 ppb	4.488	0.50%
Sb 206.836†	53.7	-4.8437 ug/L	6.95554	-4.8437 ppb	6.95554	143.60%
Se 196.026†	-665.7	6.4756 ug/L	6.47497	6.4756 ppb	6.47497	99.99%
Si 251.611†	841646.0	26643 ug/L	78.7	26643 ppb	78.7	0.30%
Sn 189.927†	-156.9	-19.979 ug/L	0.6970	-19.979 ppb	0.6970	3.49%
Sr 421.552†	48907.5	312.03 ug/L	3.924	312.03 ppb	3.924	1.26%
Ti 334.940†	4068377.8	6516.8 ug/L	18.96	6516.8 ppb	18.96	0.29%
Tl 190.801†	-246.5	0.5489 ug/L	2.23628	0.5489 ppb	2.23628	407.45%
U 409.014†	-6605.3	-210.81 ug/L	2.367	-210.81 ppb	2.367	1.12%
V 292.402†	45174.8	276.33 ug/L	0.574	276.33 ppb	0.574	0.21%
Zn 213.857†	28975.6	257.64 ug/L	1.608	257.64 ppb	1.608	0.62%
SiO2†	833013.9	56186 ug/L	138.8	56186 ppb	138.8	0.25%

Sequence No.: 61

Sample ID: 243626009|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 1/12/2010 22:33:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626009|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5272.2	5272.2	103 %		22:35:27
1	Y RADIAL	6156.2	6156.2	111.8 %		22:35:27
1	Al 396.153Radial†	153264.4	148872.0	119060 ug/L	119060 ppb	22:35:07
1	Ca 317.933Radial†	12082.2	11716.3	18913 ug/L	18913 ppb	22:35:07
1	Fe 238.204 Radial†	14937.0	14496.8	123270 ug/L	123270 ppb	22:35:07
1	K 766.490 Radial†	104663.8	99148.5	18046 ug/L	18046 ppb	22:35:07
1	Mg 279.077 IEC†	538.4	519.9	17135 ug/L	17135 ppb	22:35:27
1	Na 589.592 Radial†	589.6	1881.6	539.36 ug/L	539.36 ppb	22:35:07
1	Sr 421.552†	36398.1	35343.8	225.51 ug/L	225.51 ppb	22:35:07
1	Sc 361.383	855298.7	855298.7	99.677 %		22:36:30
1	Y 371.029	783927.5	783927.5	107.73 %		22:36:30
1	Ag 328.068†	-7460.9	-7842.1	5.0946 ug/L	5.0946 ppb	22:36:30
1	As 188.979†	-87.1	-63.4	49.408 ug/L	49.408 ppb	22:36:50
1	B 249.677†	1190.3	1809.2	20.122 ug/L	20.122 ppb	22:36:30
1	Ba 233.527†	255096.9	255932.5	1987.4 ug/L	1987.4 ppb	22:36:30
1	Be 313.107†	-13158.6	-8726.6	9.1905 ug/L	9.1905 ppb	22:36:30
1	Cd 226.502†	981.9	1186.7	0.3726 ug/L	0.3726 ppb	22:36:50
1	Co 228.616†	8001.1	8104.3	152.01 ug/L	152.01 ppb	22:36:50
1	Cr 267.716†	19160.7	19143.9	215.26 ug/L	215.26 ppb	22:36:50
1	Cu 324.752†	27545.9	21232.8	69.968 ug/L	69.968 ppb	22:36:30
1	Mn 257.610†	6395710.1	6416015.3	7047.7 ug/L	7047.7 ppb	22:36:25
1	Mo 202.031†	38.5	17.0	10.979 ug/L	10.979 ppb	22:36:50
1	Ni 231.604†	5566.9	5517.9	136.45 ug/L	136.45 ppb	22:36:50
1	P 214.914†	2777.5	2566.2	1455.8 ug/L	1455.8 ppb	22:36:50
1	Pb 220.353†	1135.1	1201.0	161.58 ug/L	161.58 ppb	22:36:50
1	S 181.975 Axial†	705.8	664.2	902.03 ug/L	902.03 ppb	22:36:50
1	Sb 206.836†	101.5	68.4	3.8186 ug/L	3.8186 ppb	22:36:50
1	Se 196.026†	-594.0	-563.9	17.078 ug/L	17.078 ppb	22:36:50
1	Si 251.611†	1014282.1	1017109.7	32198 ug/L	32198 ppb	22:36:25
1	Sn 189.927†	-117.4	-119.4	-15.550 ug/L	-15.550 ppb	22:36:50
1	Ti 334.940†	3422699.6	3435130.2	5501.7 ug/L	5501.7 ppb	22:36:25
1	Tl 190.801†	-308.7	-275.6	-5.1749 ug/L	-5.1749 ppb	22:36:50
1	U 409.014†	-8165.3	-6327.9	-200.81 ug/L	-200.81 ppb	22:36:30
1	V 292.402†	39287.9	40775.0	250.49 ug/L	250.49 ppb	22:36:30
1	Zn 213.857†	26347.6	25808.4	229.36 ug/L	229.36 ppb	22:36:50
1	SiO2†	1025841.3	1028708.1	69385 ug/L	69385 ppb	22:38:00
2	Sc Radial	5327.2	5327.2	104 %		22:35:52
2	Y RADIAL	6223.4	6223.4	113.0 %		22:35:52
2	Al 396.153Radial†	151982.6	146103.6	116850 ug/L	116850 ppb	22:35:32
2	Ca 317.933Radial†	11917.4	11436.7	18462 ug/L	18462 ppb	22:35:32
2	Fe 238.204 Radial†	14781.1	14197.2	120720 ug/L	120720 ppb	22:35:32
2	K 766.490 Radial†	103561.1	97039.4	17662 ug/L	17662 ppb	22:35:32
2	Mg 279.077 IEC†	540.4	516.4	17022 ug/L	17022 ppb	22:35:52
2	Na 589.592 Radial†	601.0	1886.6	540.79 ug/L	540.79 ppb	22:35:32
2	Sr 421.552†	35976.2	34573.4	220.60 ug/L	220.60 ppb	22:35:32
2	Sc 361.383	858007.1	858007.1	99.992 %		22:37:02
2	Y 371.029	786047.2	786047.2	108.02 %		22:37:02
2	Ag 328.068†	-7539.0	-7896.6	4.0216 ug/L	4.0216 ppb	22:37:02
2	As 188.979†	-75.4	-51.4	54.186 ug/L	54.186 ppb	22:37:22
2	B 249.677†	1136.9	1752.1	19.255 ug/L	19.255 ppb	22:37:02
2	Ba 233.527†	255327.6	255355.4	1982.8 ug/L	1982.8 ppb	22:37:02
2	Be 313.107†	-13425.5	-8951.9	9.1699 ug/L	9.1699 ppb	22:37:02
2	Cd 226.502†	1002.0	1203.7	0.8236 ug/L	0.8236 ppb	22:37:22
2	Co 228.616†	8009.9	8087.8	151.64 ug/L	151.64 ppb	22:37:22
2	Cr 267.716†	19234.9	19157.4	215.36 ug/L	215.36 ppb	22:37:22
2	Cu 324.752†	27709.4	21309.0	70.059 ug/L	70.059 ppb	22:37:02
2	Mn 257.610†	6445543.7	6445598.0	7079.9 ug/L	7079.9 ppb	22:36:56
2	Mo 202.031†	34.6	13.0	10.495 ug/L	10.495 ppb	22:37:22
2	Ni 231.604†	5578.1	5511.5	136.29 ug/L	136.29 ppb	22:37:22

2	P 214.914†	2789.0	2568.9	1458.8 ug/L	1458.8 ppb	22:37:22
2	Pb 220.353†	1137.5	1199.8	161.15 ug/L	161.15 ppb	22:37:22
2	S 181.975 Axial†	704.6	660.8	897.68 ug/L	897.68 ppb	22:37:22
2	Sb 206.836†	96.8	63.4	2.0587 ug/L	2.0587 ppb	22:37:22
2	Se 196.026†	-588.3	-556.3	14.216 ug/L	14.216 ppb	22:37:22
2	Si 251.611†	1023502.7	1023118.9	32388 ug/L	32388 ppb	22:36:56
2	Sn 189.927†	-112.0	-113.6	-14.662 ug/L	-14.662 ppb	22:37:22
2	Ti 334.940†	3451281.3	3452874.6	5530.1 ug/L	5530.1 ppb	22:36:56
2	Tl 190.801†	-300.8	-266.8	-2.1097 ug/L	-2.1097 ppb	22:37:22
2	U 409.014†	-8096.4	-6233.1	-197.73 ug/L	-197.73 ppb	22:37:02
2	V 292.402†	39344.2	40706.9	250.41 ug/L	250.41 ppb	22:37:02
2	Zn 213.857†	26417.0	25794.3	229.47 ug/L	229.47 ppb	22:37:22
2	SiO2†	1019646.4	1019264.0	68748 ug/L	68748 ppb	22:38:06
3	Sc Radial	5299.0	5299.0	103 %		22:36:17
3	Y RADIAL	6212.7	6212.7	112.8 %		22:36:17
3	Al 396.153Radial†	152978.7	147844.9	118240 ug/L	118240 ppb	22:35:57
3	Ca 317.933Radial†	12019.8	11596.7	18720 ug/L	18720 ppb	22:35:57
3	Fe 238.204 Radial†	14816.3	14306.9	121650 ug/L	121650 ppb	22:35:57
3	K 766.490 Radial†	104367.1	98349.0	17901 ug/L	17901 ppb	22:35:57
3	Mg 279.077 IEC†	545.4	524.0	17274 ug/L	17274 ppb	22:36:17
3	Na 589.592 Radial†	570.0	1859.7	533.08 ug/L	533.08 ppb	22:35:57
3	Sr 421.552†	36279.7	35051.0	223.64 ug/L	223.64 ppb	22:35:57
3	Sc 361.383	854974.8	854974.8	99.639 %		22:37:33
3	Y 371.029	784352.6	784352.6	107.79 %		22:37:33
3	Ag 328.068†	-7547.9	-7932.3	4.1613 ug/L	4.1613 ppb	22:37:33
3	As 188.979†	-80.6	-56.9	51.690 ug/L	51.690 ppb	22:37:54
3	B 249.677†	1045.1	1664.0	17.125 ug/L	17.125 ppb	22:37:33
3	Ba 233.527†	254406.5	255336.5	1982.7 ug/L	1982.7 ppb	22:37:33
3	Be 313.107†	-13585.0	-9159.6	8.9971 ug/L	8.9971 ppb	22:37:33
3	Cd 226.502†	989.3	1194.6	0.6267 ug/L	0.6267 ppb	22:37:54
3	Co 228.616†	7989.1	8095.3	151.87 ug/L	151.87 ppb	22:37:54
3	Cr 267.716†	19239.5	19230.2	216.19 ug/L	216.19 ppb	22:37:54
3	Cu 324.752†	27529.8	21227.1	69.865 ug/L	69.865 ppb	22:37:33
3	Mn 257.610†	6380068.1	6402747.3	7033.0 ug/L	7033.0 ppb	22:37:28
3	Mo 202.031†	25.1	3.5	9.9118 ug/L	9.9118 ppb	22:37:54
3	Ni 231.604†	5602.2	5555.4	137.38 ug/L	137.38 ppb	22:37:54
3	P 214.914†	2803.1	2593.0	1472.9 ug/L	1472.9 ppb	22:37:54
3	Pb 220.353†	1149.2	1215.6	163.30 ug/L	163.30 ppb	22:37:54
3	S 181.975 Axial†	700.1	658.8	894.61 ug/L	894.61 ppb	22:37:54
3	Sb 206.836†	95.5	62.4	1.7959 ug/L	1.7959 ppb	22:37:54
3	Se 196.026†	-581.6	-551.7	19.931 ug/L	19.931 ppb	22:37:54
3	Si 251.611†	1011086.5	1014288.0	32109 ug/L	32109 ppb	22:37:28
3	Sn 189.927†	-121.0	-123.1	-16.257 ug/L	-16.257 ppb	22:37:54
3	Ti 334.940†	3413224.9	3426921.9	5488.5 ug/L	5488.5 ppb	22:37:28
3	Tl 190.801†	-301.8	-268.8	-3.3008 ug/L	-3.3008 ppb	22:37:54
3	U 409.014†	-8125.5	-6291.0	-199.55 ug/L	-199.55 ppb	22:37:33
3	V 292.402†	39318.7	40820.9	251.07 ug/L	251.07 ppb	22:37:33
3	Zn 213.857†	26437.3	25908.4	230.45 ug/L	230.45 ppb	22:37:54
3	SiO2†	1011153.8	1014357.2	68417 ug/L	68417 ppb	22:38:12

Mean Data: 243626009|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	856093.5	99.769 %	0.1941			0.19%
Sc Radial	5299.5	103 %	0.5			0.52%
Y 371.029	784775.8	107.85 %	0.154			0.14%
Y RADIAL	6197.4	112.6 %	0.66			0.58%
Ag 328.068†	-7890.3	4.4258 ug/L	0.58335	4.4258 ppb	0.58335	13.18%
Al 396.153Radial†	147606.9	118050 ug/L	1119.2	118050 ppb	1119.2	0.95%
As 188.979†	-57.3	51.762 ug/L	2.3897	51.762 ppb	2.3897	4.62%
B 249.677†	1741.8	18.834 ug/L	1.5419	18.834 ppb	1.5419	8.19%
Ba 233.527†	255541.4	1984.3 ug/L	2.66	1984.3 ppb	2.66	0.13%
Be 313.107†	-8946.0	9.1192 ug/L	0.10622	9.1192 ppb	0.10622	1.16%
Ca 317.933Radial†	11583.2	18698 ug/L	226.4	18698 ppb	226.4	1.21%
Cd 226.502†	1195.0	0.6076 ug/L	0.22611	0.6076 ppb	0.22611	37.21%
Co 228.616†	8095.8	151.84 ug/L	0.182	151.84 ppb	0.182	0.12%
Cr 267.716†	19177.2	215.60 ug/L	0.509	215.60 ppb	0.509	0.24%
Cu 324.752†	21256.3	69.964 ug/L	0.0972	69.964 ppb	0.0972	0.14%
Fe 238.204 Radial†	14333.6	121880 ug/L	1288.7	121880 ppb	1288.7	1.06%
K 766.490 Radial†	98179.0	17870 ug/L	193.8	17870 ppb	193.8	1.08%

Mg 279.077 IEC†	520.1	17144 ug/L	125.9	17144 ppb	125.9	0.73%
Mn 257.610†	6421453.5	7053.5 ug/L	23.99	7053.5 ppb	23.99	0.34%
Mo 202.031†	11.2	10.462 ug/L	0.5343	10.462 ppb	0.5343	5.11%
Na 589.592 Radial†	1876.0	537.75 ug/L	4.100	537.75 ppb	4.100	0.76%
Ni 231.604†	5528.3	136.71 ug/L	0.587	136.71 ppb	0.587	0.43%
P 214.914†	2576.0	1462.5 ug/L	9.14	1462.5 ppb	9.14	0.63%
Pb 220.353†	1205.4	162.01 ug/L	1.137	162.01 ppb	1.137	0.70%
S 181.975 Axial†	661.3	898.11 ug/L	3.728	898.11 ppb	3.728	0.42%
Sb 206.836†	64.7	2.5577 ug/L	1.09983	2.5577 ppb	1.09983	43.00%
Se 196.026†	-557.3	17.075 ug/L	2.8572	17.075 ppb	2.8572	16.73%
Si 251.611†	1018172.2	32232 ug/L	142.8	32232 ppb	142.8	0.44%
Sn 189.927†	-118.7	-15.490 ug/L	0.7995	-15.490 ppb	0.7995	5.16%
Sr 421.552†	34989.4	223.25 ug/L	2.481	223.25 ppb	2.481	1.11%
Ti 334.940†	3438308.9	5506.8 ug/L	21.23	5506.8 ppb	21.23	0.39%
Tl 190.801†	-270.4	-3.5284 ug/L	1.54523	-3.5284 ppb	1.54523	43.79%
U 409.014†	-6284.0	-199.36 ug/L	1.549	-199.36 ppb	1.549	0.78%
V 292.402†	40767.6	250.66 ug/L	0.359	250.66 ppb	0.359	0.14%
Zn 213.857†	25837.0	229.76 ug/L	0.599	229.76 ppb	0.599	0.26%
SiO2†	1020776.4	68850 ug/L	492.0	68850 ppb	492.0	0.71%

Sequence No.: 62

Sample ID: 243626010|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 1/12/2010 22:40:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626010|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5222.0	5222.0	102 %		22:42:36
1	Y RADIAL	6134.4	6134.4	111.4 %		22:42:36
1	Al 396.153Radial†	175685.6	172291.7	137790 ug/L	137790 ppb	22:42:16
1	Ca 317.933Radial†	12782.1	12515.5	20203 ug/L	20203 ppb	22:42:16
1	Fe 238.204 Radial†	15189.3	14883.8	126560 ug/L	126560 ppb	22:42:16
1	K 766.490 Radial†	111568.2	106897.4	19458 ug/L	19458 ppb	22:42:16
1	Mg 279.077 IEC†	622.7	607.6	20043 ug/L	20043 ppb	22:42:36
1	Na 589.592 Radial†	909.2	2200.5	630.78 ug/L	630.78 ppb	22:42:16
1	Sr 421.552†	39155.8	38388.3	244.94 ug/L	244.94 ppb	22:42:16
1	Sc 361.383	856942.5	856942.5	99.868 %		22:43:40
1	Y 371.029	792439.0	792439.0	108.90 %		22:43:40
1	Ag 328.068†	-7774.5	-8141.8	4.7185 ug/L	4.7185 ppb	22:43:40
1	As 188.979†	-103.5	-79.7	45.852 ug/L	45.852 ppb	22:44:00
1	B 249.677†	1126.5	1743.1	18.382 ug/L	18.382 ppb	22:43:40
1	Ba 233.527†	229212.5	229523.0	1782.8 ug/L	1782.8 ppb	22:43:40
1	Be 313.107†	-13436.4	-8979.5	9.7759 ug/L	9.7759 ppb	22:43:40
1	Cd 226.502†	1017.8	1220.7	0.3937 ug/L	0.3937 ppb	22:44:00
1	Co 228.616†	3216.2	3297.6	53.697 ug/L	53.697 ppb	22:44:00
1	Cr 267.716†	16497.8	16440.6	185.31 ug/L	185.31 ppb	22:44:00
1	Cu 324.752†	25854.9	19486.6	64.931 ug/L	64.931 ppb	22:43:40
1	Mn 257.610†	3205888.9	3209682.7	3531.6 ug/L	3531.6 ppb	22:43:34
1	Mo 202.031†	-48.2	-69.9	5.1864 ug/L	5.1864 ppb	22:44:00
1	Ni 231.604†	4670.4	4609.5	114.03 ug/L	114.03 ppb	22:44:00
1	P 214.914†	1998.3	1780.7	987.41 ug/L	987.41 ppb	22:44:00
1	Pb 220.353†	759.2	822.4	119.83 ug/L	119.83 ppb	22:44:00
1	S 181.975 Axial†	452.0	408.7	542.97 ug/L	542.97 ppb	22:44:00
1	Sb 206.836†	99.7	66.4	1.5425 ug/L	1.5425 ppb	22:44:00
1	Se 196.026†	-608.0	-576.7	19.729 ug/L	19.729 ppb	22:44:00
1	Si 251.611†	954757.3	955554.5	30249 ug/L	30249 ppb	22:43:34
1	Sn 189.927†	-113.4	-115.2	-14.542 ug/L	-14.542 ppb	22:44:00
1	Ti 334.940†	3616344.5	3622443.1	5801.6 ug/L	5801.6 ppb	22:43:34
1	Tl 190.801†	-239.3	-205.6	2.0971 ug/L	2.0971 ppb	22:44:00
1	U 409.014†	-8052.9	-6199.6	-197.34 ug/L	-197.34 ppb	22:43:40
1	V 292.402†	37827.5	39237.1	239.20 ug/L	239.20 ppb	22:43:40
1	Zn 213.857†	27768.7	27180.7	242.07 ug/L	242.07 ppb	22:44:00
1	SiO2†	961022.9	961830.0	64874 ug/L	64874 ppb	22:45:09
2	Sc Radial	5453.3	5453.3	106 %		22:43:01
2	Y RADIAL	6375.5	6375.5	115.8 %		22:43:01
2	Al 396.153Radial†	172059.5	161578.9	129230 ug/L	129230 ppb	22:42:41
2	Ca 317.933Radial†	12488.0	11707.7	18899 ug/L	18899 ppb	22:42:41
2	Fe 238.204 Radial†	14808.4	13894.3	118140 ug/L	118140 ppb	22:42:41
2	K 766.490 Radial†	109088.8	99928.5	18190 ug/L	18190 ppb	22:42:41
2	Mg 279.077 IEC†	613.7	573.3	18913 ug/L	18913 ppb	22:43:01
2	Na 589.592 Radial†	824.7	2083.3	597.17 ug/L	597.17 ppb	22:42:41
2	Sr 421.552†	38107.2	35774.8	228.26 ug/L	228.26 ppb	22:42:41
2	Sc 361.383	863878.0	863878.0	100.68 %		22:44:11
2	Y 371.029	802307.7	802307.7	110.26 %		22:44:11
2	Ag 328.068†	-7924.8	-8228.6	1.6188 ug/L	1.6188 ppb	22:44:11
2	As 188.979†	-102.5	-77.8	44.538 ug/L	44.538 ppb	22:44:31
2	B 249.677†	1121.1	1728.7	19.428 ug/L	19.428 ppb	22:44:11
2	Ba 233.527†	231753.3	230204.2	1787.9 ug/L	1787.9 ppb	22:44:11
2	Be 313.107†	-13958.7	-9390.2	9.5887 ug/L	9.5887 ppb	22:44:11
2	Cd 226.502†	999.7	1194.6	0.9755 ug/L	0.9755 ppb	22:44:31
2	Co 228.616†	3176.0	3231.9	52.518 ug/L	52.518 ppb	22:44:31
2	Cr 267.716†	16470.3	16280.7	183.38 ug/L	183.38 ppb	22:44:31
2	Cu 324.752†	26116.9	19538.9	64.639 ug/L	64.639 ppb	22:44:11
2	Mn 257.610†	3217859.6	3195801.2	3515.6 ug/L	3515.6 ppb	22:44:06
2	Mo 202.031†	-50.6	-71.9	4.3825 ug/L	4.3825 ppb	22:44:31
2	Ni 231.604†	4680.2	4581.7	113.34 ug/L	113.34 ppb	22:44:31

2	P 214.914†	1982.7	1749.1	973.05 ug/L	973.05 ppb	22:44:31
2	Pb 220.353†	787.6	844.5	121.29 ug/L	121.29 ppb	22:44:31
2	S 181.975 Axial†	451.0	404.1	538.11 ug/L	538.11 ppb	22:44:31
2	Sb 206.836†	80.7	46.7	-4.9554 ug/L	-4.9554 ppb	22:44:31
2	Se 196.026†	-603.9	-567.8	-0.0414 ug/L	-0.0414 ppb	22:44:31
2	Si 251.611†	958515.0	951611.7	30125 ug/L	30125 ppb	22:44:06
2	Sn 189.927†	-108.7	-109.7	-13.942 ug/L	-13.942 ppb	22:44:31
2	Ti 334.940†	3636747.8	3613637.8	5787.4 ug/L	5787.4 ppb	22:44:06
2	Tl 190.801†	-252.1	-216.3	-1.3246 ug/L	-1.3246 ppb	22:44:31
2	U 409.014†	-7937.5	-6020.3	-191.10 ug/L	-191.10 ppb	22:44:11
2	V 292.402†	38453.0	39554.3	242.72 ug/L	242.72 ppb	22:44:11
2	Zn 213.857†	27664.7	26854.1	239.83 ug/L	239.83 ppb	22:44:31
2	SiO2†	964059.5	957120.6	64557 ug/L	64557 ppb	22:45:15
3	Sc Radial	5332.7	5332.7	104 %		22:43:27
3	Y RADIAL	6232.6	6232.6	113.2 %		22:43:27
3	Al 396.153Radial†	173857.8	166958.1	133530 ug/L	133530 ppb	22:43:07
3	Ca 317.933Radial†	12586.5	12067.3	19480 ug/L	19480 ppb	22:43:07
3	Fe 238.204 Radial†	14989.4	14382.4	122290 ug/L	122290 ppb	22:43:07
3	K 766.490 Radial†	110605.0	103700.0	18876 ug/L	18876 ppb	22:43:07
3	Mg 279.077 IEC†	611.2	583.8	19260 ug/L	19260 ppb	22:43:27
3	Na 589.592 Radial†	897.1	2170.4	622.14 ug/L	622.14 ppb	22:43:07
3	Sr 421.552†	38645.4	37100.6	236.72 ug/L	236.72 ppb	22:43:07
3	Sc 361.383	868728.1	868728.1	101.24 %		22:44:43
3	Y 371.029	807757.2	807757.2	111.01 %		22:44:43
3	Ag 328.068†	-7982.1	-8241.3	2.8992 ug/L	2.8992 ppb	22:44:43
3	As 188.979†	-91.6	-66.5	50.585 ug/L	50.585 ppb	22:45:03
3	B 249.677†	1184.9	1785.4	20.027 ug/L	20.027 ppb	22:44:43
3	Ba 233.527†	234389.8	231523.2	1798.2 ug/L	1798.2 ppb	22:44:43
3	Be 313.107†	-13732.1	-9089.0	9.7616 ug/L	9.7616 ppb	22:44:43
3	Cd 226.502†	997.1	1186.5	0.4574 ug/L	0.4574 ppb	22:45:03
3	Co 228.616†	3213.6	3251.5	52.804 ug/L	52.804 ppb	22:45:03
3	Cr 267.716†	16577.9	16295.6	183.62 ug/L	183.62 ppb	22:45:03
3	Cu 324.752†	26413.1	19686.7	65.299 ug/L	65.299 ppb	22:44:43
3	Mn 257.610†	3253858.1	3213513.6	3535.4 ug/L	3535.4 ppb	22:44:38
3	Mo 202.031†	-53.6	-74.6	4.5232 ug/L	4.5232 ppb	22:45:03
3	Ni 231.604†	4675.1	4550.7	112.58 ug/L	112.58 ppb	22:45:03
3	P 214.914†	2009.5	1764.5	979.93 ug/L	979.93 ppb	22:45:03
3	Pb 220.353†	769.9	822.6	119.25 ug/L	119.25 ppb	22:45:03
3	S 181.975 Axial†	451.9	402.4	535.04 ug/L	535.04 ppb	22:45:03
3	Sb 206.836†	101.8	67.1	1.7898 ug/L	1.7898 ppb	22:45:03
3	Se 196.026†	-597.2	-557.9	18.730 ug/L	18.730 ppb	22:45:03
3	Si 251.611†	969168.5	956819.2	30289 ug/L	30289 ppb	22:44:38
3	Sn 189.927†	-116.1	-116.4	-14.942 ug/L	-14.942 ppb	22:45:03
3	Ti 334.940†	3673607.1	3629877.6	5813.4 ug/L	5813.4 ppb	22:44:38
3	Tl 190.801†	-233.2	-196.3	5.0239 ug/L	5.0239 ppb	22:45:03
3	U 409.014†	-7955.0	-5993.5	-190.79 ug/L	-190.79 ppb	22:44:43
3	V 292.402†	38769.5	39653.7	242.70 ug/L	242.70 ppb	22:44:43
3	Zn 213.857†	27979.4	27011.5	240.90 ug/L	240.90 ppb	22:45:03
3	SiO2†	960250.2	948011.9	63942 ug/L	63942 ppb	22:45:21

Mean Data: 243626010|937483|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	863182.9	100.60 %	0.690			0.69%
Sc Radial	5336.0	104 %	2.3			2.17%
Y 371.029	800834.6	110.06 %	1.067			0.97%
Y RADIAL	6247.5	113.5 %	2.20			1.94%
Ag 328.068†	-8203.9	3.0788 ug/L	1.55763	3.0788 ppb	1.55763	50.59%
Al 396.153Radial†	166942.9	133520 ug/L	4283.9	133520 ppb	4283.9	3.21%
As 188.979†	-74.7	46.992 ug/L	3.1804	46.992 ppb	3.1804	6.77%
B 249.677†	1752.4	19.279 ug/L	0.8326	19.279 ppb	0.8326	4.32%
Ba 233.527†	230416.8	1789.6 ug/L	7.84	1789.6 ppb	7.84	0.44%
Be 313.107†	-9152.9	9.7088 ug/L	0.10418	9.7088 ppb	0.10418	1.07%
Ca 317.933Radial†	12096.8	19527 ug/L	653.3	19527 ppb	653.3	3.35%
Cd 226.502†	1200.6	0.6088 ug/L	0.31911	0.6088 ppb	0.31911	52.41%
Co 228.616†	3260.3	53.007 ug/L	0.6151	53.007 ppb	0.6151	1.16%
Cr 267.716†	16338.9	184.11 ug/L	1.054	184.11 ppb	1.054	0.57%
Cu 324.752†	19570.7	64.956 ug/L	0.3308	64.956 ppb	0.3308	0.51%
Fe 238.204 Radial†	14386.8	122330 ug/L	4207.0	122330 ppb	4207.0	3.44%
K 766.490 Radial†	103508.6	18841 ug/L	635.0	18841 ppb	635.0	3.37%

Mg 279.077 IEC†	588.2	19405 ug/L	578.7	19405 ppb	578.7	2.98%
Mn 257.610†	3206332.5	3527.6 ug/L	10.52	3527.6 ppb	10.52	0.30%
Mo 202.031†	-72.1	4.6974 ug/L	0.42928	4.6974 ppb	0.42928	9.14%
Na 589.592 Radial†	2151.4	616.70 ug/L	17.452	616.70 ppb	17.452	2.83%
Ni 231.604†	4580.6	113.32 ug/L	0.728	113.32 ppb	0.728	0.64%
P 214.914†	1764.7	980.13 ug/L	7.185	980.13 ppb	7.185	0.73%
Pb 220.353†	829.9	120.12 ug/L	1.048	120.12 ppb	1.048	0.87%
S 181.975 Axial†	405.1	538.71 ug/L	3.998	538.71 ppb	3.998	0.74%
Sb 206.836†	60.1	-0.5410 ug/L	3.82497	-0.5410 ppb	3.82497	706.97%
Se 196.026†	-567.5	12.806 ug/L	11.1371	12.806 ppb	11.1371	86.97%
Si 251.611†	954661.8	30221 ug/L	86.0	30221 ppb	86.0	0.28%
Sn 189.927†	-113.7	-14.476 ug/L	0.5036	-14.476 ppb	0.5036	3.48%
Sr 421.552†	37087.9	236.64 ug/L	8.338	236.64 ppb	8.338	3.52%
Ti 334.940†	3621986.2	5800.8 ug/L	13.04	5800.8 ppb	13.04	0.22%
Tl 190.801†	-206.0	1.9321 ug/L	3.17746	1.9321 ppb	3.17746	164.45%
U 409.014†	-6071.1	-193.08 ug/L	3.698	-193.08 ppb	3.698	1.92%
V 292.402†	39481.7	241.54 ug/L	2.024	241.54 ppb	2.024	0.84%
Zn 213.857†	27015.4	240.93 ug/L	1.123	240.93 ppb	1.123	0.47%
SiO2†	955654.2	64458 ug/L	473.8	64458 ppb	473.8	0.74%

Sequence No.: 63

Sample ID: 243626011|937483|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 85

Date Collected: 1/12/2010 22:47:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243626011|937483|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5269.0	5269.0	103 %		22:49:45
1	Y RADIAL	6242.6	6242.6	113.4 %		22:49:45
1	Al 396.153Radial†	179959.9	174909.1	139890 ug/L	139890 ppb	22:49:25
1	Ca 317.933Radial†	13059.8	12673.6	20458 ug/L	20458 ppb	22:49:25
1	Fe 238.204 Radial†	16367.9	15896.4	135170 ug/L	135170 ppb	22:49:25
1	K 766.490 Radial†	116386.9	110604.9	20133 ug/L	20133 ppb	22:49:25
1	Mg 279.077 IEC†	658.4	636.8	21006 ug/L	21006 ppb	22:49:45
1	Na 589.592 Radial†	1643.7	2906.4	833.12 ug/L	833.12 ppb	22:49:25
1	Sr 421.552†	41199.5	40032.0	255.43 ug/L	255.43 ppb	22:49:25
1	Sc 361.383	880572.1	880572.1	102.62 %		22:50:43
1	Y 371.029	805819.6	805819.6	110.74 %		22:50:49
1	Ag 328.068†	-8728.8	-8862.8	4.3308 ug/L	4.3308 ppb	22:50:49
1	As 188.979†	-121.2	-94.2	48.331 ug/L	48.331 ppb	22:51:09
1	B 249.677†	1340.6	1921.4	20.945 ug/L	20.945 ppb	22:50:49
1	Ba 233.527†	255983.2	249450.9	1937.6 ug/L	1937.6 ppb	22:50:49
1	Be 313.107†	-16523.1	-11626.2	10.528 ug/L	10.528 ppb	22:50:49
1	Cd 226.502†	1150.1	1322.3	0.6680 ug/L	0.6680 ppb	22:51:09
1	Co 228.616†	4040.6	4014.6	66.521 ug/L	66.521 ppb	22:51:09
1	Cr 267.716†	31134.9	30260.4	338.85 ug/L	338.85 ppb	22:50:49
1	Cu 324.752†	27248.8	20150.1	67.364 ug/L	67.364 ppb	22:50:49
1	Mn 257.610†	3981808.9	3879635.1	4267.2 ug/L	4267.2 ppb	22:50:43
1	Mo 202.031†	25.5	3.3	10.963 ug/L	10.963 ppb	22:51:09
1	Ni 231.604†	7766.0	7500.5	185.56 ug/L	185.56 ppb	22:51:09
1	P 214.914†	1828.3	1561.2	848.79 ug/L	848.79 ppb	22:51:09
1	Pb 220.353†	886.2	925.8	132.02 ug/L	132.02 ppb	22:51:09
1	S 181.975 Axial†	512.3	455.3	607.42 ug/L	607.42 ppb	22:51:09
1	Sb 206.836†	111.2	74.9	2.1258 ug/L	2.1258 ppb	22:51:09
1	Se 196.026†	-670.2	-621.1	17.502 ug/L	17.502 ppb	22:51:09
1	Si 251.611†	1059807.5	1032266.5	32678 ug/L	32678 ppb	22:50:43
1	Sn 189.927†	-126.3	-124.7	-16.012 ug/L	-16.012 ppb	22:51:09
1	Ti 334.940†	4210593.0	4104337.2	6573.1 ug/L	6573.1 ppb	22:50:43
1	Tl 190.801†	-287.0	-245.6	-0.1972 ug/L	-0.1972 ppb	22:51:09
1	U 409.014†	-8165.6	-6093.1	-195.53 ug/L	-195.53 ppb	22:50:49
1	V 292.402†	43467.1	43716.2	267.39 ug/L	267.39 ppb	22:50:49
1	Zn 213.857†	28628.8	27272.6	241.64 ug/L	241.64 ppb	22:51:09
1	SiO2†	1056119.3	1028674.1	69383 ug/L	69383 ppb	22:52:19
2	Sc Radial	5315.6	5315.6	104 %		22:50:10
2	Y RADIAL	6306.8	6306.8	114.6 %		22:50:10
2	Al 396.153Radial†	183257.8	176553.3	141200 ug/L	141200 ppb	22:49:50
2	Ca 317.933Radial†	13237.6	12733.6	20555 ug/L	20555 ppb	22:49:50
2	Fe 238.204 Radial†	16601.1	15981.6	135890 ug/L	135890 ppb	22:49:50
2	K 766.490 Radial†	118145.6	111307.7	20261 ug/L	20261 ppb	22:49:50
2	Mg 279.077 IEC†	668.8	641.3	21152 ug/L	21152 ppb	22:50:10
2	Na 589.592 Radial†	1797.5	3040.6	871.58 ug/L	871.58 ppb	22:49:50
2	Sr 421.552†	41874.3	40331.1	257.34 ug/L	257.34 ppb	22:49:50
2	Sc 361.383	880347.3	880347.3	102.60 %		22:51:15
2	Y 371.029	798304.5	798304.5	109.71 %		22:51:21
2	Ag 328.068†	-8659.9	-8797.9	4.8504 ug/L	4.8504 ppb	22:51:21
2	As 188.979†	-113.3	-86.5	51.818 ug/L	51.818 ppb	22:51:41
2	B 249.677†	1232.2	1816.2	18.463 ug/L	18.463 ppb	22:51:21
2	Ba 233.527†	254213.7	247789.8	1924.7 ug/L	1924.7 ppb	22:51:21
2	Be 313.107†	-16424.7	-11534.4	10.565 ug/L	10.565 ppb	22:51:21
2	Cd 226.502†	1131.5	1304.5	0.3982 ug/L	0.3982 ppb	22:51:41
2	Co 228.616†	4054.3	4028.9	66.792 ug/L	66.792 ppb	22:51:41
2	Cr 267.716†	30917.9	30056.6	336.60 ug/L	336.60 ppb	22:51:21
2	Cu 324.752†	27006.9	19921.1	66.717 ug/L	66.717 ppb	22:51:21
2	Mn 257.610†	3984392.9	3883144.4	4271.1 ug/L	4271.1 ppb	22:51:15
2	Mo 202.031†	11.2	-10.8	10.043 ug/L	10.043 ppb	22:51:41
2	Ni 231.604†	7782.5	7518.6	186.01 ug/L	186.01 ppb	22:51:41

2	P 214.914†	1830.2	1563.6	850.09 ug/L	850.09 ppb	22:51:41
2	Pb 220.353†	874.0	914.1	130.84 ug/L	130.84 ppb	22:51:41
2	S 181.975 Axial†	501.9	445.3	593.22 ug/L	593.22 ppb	22:51:41
2	Sb 206.836†	113.4	77.1	2.8360 ug/L	2.8360 ppb	22:51:41
2	Se 196.026†	-665.2	-616.4	22.680 ug/L	22.680 ppb	22:51:41
2	Si 251.611†	1060558.0	1033261.6	32709 ug/L	32709 ppb	22:51:15
2	Sn 189.927†	-123.3	-121.9	-15.493 ug/L	-15.493 ppb	22:51:41
2	Ti 334.940†	4210372.5	4105169.9	6574.4 ug/L	6574.4 ppb	22:51:15
2	Tl 190.801†	-293.4	-251.9	-2.0522 ug/L	-2.0522 ppb	22:51:41
2	U 409.014†	-8026.4	-5959.4	-191.68 ug/L	-191.68 ppb	22:51:21
2	V 292.402†	43174.5	43441.7	265.41 ug/L	265.41 ppb	22:51:21
2	Zn 213.857†	28685.5	27335.0	242.15 ug/L	242.15 ppb	22:51:41
2	SiO2†	1052767.2	1025669.5	69180 ug/L	69180 ppb	22:52:25
3	Sc Radial	5330.2	5330.2	104 %		22:50:35
3	Y RADIAL	6324.3	6324.3	114.9 %		22:50:35
3	Al 396.153Radial†	183047.8	175865.9	140650 ug/L	140650 ppb	22:50:15
3	Ca 317.933Radial†	13285.8	12744.8	20573 ug/L	20573 ppb	22:50:15
3	Fe 238.204 Radial†	16547.4	15886.0	135080 ug/L	135080 ppb	22:50:15
3	K 766.490 Radial†	117946.3	110803.2	20169 ug/L	20169 ppb	22:50:15
3	Mg 279.077 IEC†	661.8	632.8	20871 ug/L	20871 ppb	22:50:35
3	Na 589.592 Radial†	1718.4	2959.9	848.45 ug/L	848.45 ppb	22:50:15
3	Sr 421.552†	41849.3	40196.2	256.48 ug/L	256.48 ppb	22:50:15
3	Sc 361.383	883153.2	883153.2	102.92 %		22:51:47
3	Y 371.029	801692.6	801692.6	110.17 %		22:51:53
3	Ag 328.068†	-8843.8	-8949.7	3.9011 ug/L	3.9011 ppb	22:51:53
3	As 188.979†	-124.3	-96.9	47.197 ug/L	47.197 ppb	22:52:13
3	B 249.677†	1277.3	1856.2	19.493 ug/L	19.493 ppb	22:51:53
3	Ba 233.527†	256200.8	248933.3	1933.5 ug/L	1933.5 ppb	22:51:53
3	Be 313.107†	-15951.2	-11023.5	10.764 ug/L	10.764 ppb	22:51:53
3	Cd 226.502†	1138.5	1307.8	0.5169 ug/L	0.5169 ppb	22:52:13
3	Co 228.616†	4062.2	4024.1	66.704 ug/L	66.704 ppb	22:52:13
3	Cr 267.716†	31119.1	30156.4	337.70 ug/L	337.70 ppb	22:51:53
3	Cu 324.752†	26960.3	19792.2	66.293 ug/L	66.293 ppb	22:51:53
3	Mn 257.610†	3999814.8	3885789.9	4273.9 ug/L	4273.9 ppb	22:51:47
3	Mo 202.031†	8.1	-13.8	9.7693 ug/L	9.7693 ppb	22:52:13
3	Ni 231.604†	7821.2	7532.0	186.34 ug/L	186.34 ppb	22:52:13
3	P 214.914†	1810.7	1539.0	835.96 ug/L	835.96 ppb	22:52:13
3	Pb 220.353†	890.7	927.6	132.42 ug/L	132.42 ppb	22:52:13
3	S 181.975 Axial†	512.4	453.9	605.35 ug/L	605.35 ppb	22:52:13
3	Sb 206.836†	109.5	73.0	1.4630 ug/L	1.4630 ppb	22:52:13
3	Se 196.026†	-661.3	-610.4	23.975 ug/L	23.975 ppb	22:52:13
3	Si 251.611†	1064628.4	1033932.2	32730 ug/L	32730 ppb	22:51:47
3	Sn 189.927†	-110.3	-108.9	-13.238 ug/L	-13.238 ppb	22:52:13
3	Ti 334.940†	4225371.4	4106704.6	6576.9 ug/L	6576.9 ppb	22:51:47
3	Tl 190.801†	-286.1	-243.9	0.3806 ug/L	0.3806 ppb	22:52:13
3	U 409.014†	-8268.6	-6169.9	-197.78 ug/L	-197.78 ppb	22:51:53
3	V 292.402†	43493.0	43617.5	266.71 ug/L	266.71 ppb	22:51:53
3	Zn 213.857†	28698.1	27258.4	241.51 ug/L	241.51 ppb	22:52:13
3	SiO2†	1061334.0	1030733.0	69521 ug/L	69521 ppb	22:52:31

Mean Data: 243626011|937483|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	881357.5	102.71 %		0.182			0.18%
Sc Radial	5304.9	104 %		0.6			0.60%
Y 371.029	801938.9	110.21 %		0.517			0.47%
Y RADIAL	6291.2	114.3 %		0.78			0.68%
Ag 328.068†	-8870.1	4.3607 ug/L		0.47538	4.3607 ppb	0.47538	10.90%
Al 396.153Radial†	175776.1	140580 ug/L		660.4	140580 ppb	660.4	0.47%
As 188.979†	-92.5	49.115 ug/L		2.4081	49.115 ppb	2.4081	4.90%
B 249.677†	1864.6	19.634 ug/L		1.2467	19.634 ppb	1.2467	6.35%
Ba 233.527†	248724.6	1931.9 ug/L		6.58	1931.9 ppb	6.58	0.34%
Be 313.107†	-11394.7	10.619 ug/L		0.1270	10.619 ppb	0.1270	1.20%
Ca 317.933Radial†	12717.3	20529 ug/L		61.9	20529 ppb	61.9	0.30%
Cd 226.502†	1311.5	0.5277 ug/L		0.13524	0.5277 ppb	0.13524	25.63%
Co 228.616†	4022.5	66.673 ug/L		0.1381	66.673 ppb	0.1381	0.21%
Cr 267.716†	30157.8	337.72 ug/L		1.126	337.72 ppb	1.126	0.33%
Cu 324.752†	19954.5	66.791 ug/L		0.5395	66.791 ppb	0.5395	0.81%
Fe 238.204 Radial†	15921.3	135380 ug/L		446.1	135380 ppb	446.1	0.33%
K 766.490 Radial†	110905.2	20188 ug/L		66.0	20188 ppb	66.0	0.33%

Mg 279.077 IEC†	636.9	21010 ug/L	140.9	21010 ppb	140.9	0.67%
Mn 257.610†	3882856.5	4270.7 ug/L	3.39	4270.7 ppb	3.39	0.08%
Mo 202.031†	-7.1	10.259 ug/L	0.6253	10.259 ppb	0.6253	6.10%
Na 589.592 Radial†	2968.9	851.05 ug/L	19.360	851.05 ppb	19.360	2.27%
Ni 231.604†	7517.0	185.97 ug/L	0.391	185.97 ppb	0.391	0.21%
P 214.914†	1554.6	844.95 ug/L	7.808	844.95 ppb	7.808	0.92%
Pb 220.353†	922.5	131.76 ug/L	0.824	131.76 ppb	0.824	0.63%
S 181.975 Axial†	451.5	602.00 ug/L	7.672	602.00 ppb	7.672	1.27%
Sb 206.836†	75.0	2.1416 ug/L	0.68664	2.1416 ppb	0.68664	32.06%
Se 196.026†	-616.0	21.386 ug/L	3.4254	21.386 ppb	3.4254	16.02%
Si 251.611†	1033153.4	32706 ug/L	26.5	32706 ppb	26.5	0.08%
Sn 189.927†	-118.5	-14.914 ug/L	1.4749	-14.914 ppb	1.4749	9.89%
Sr 421.552†	40186.4	256.42 ug/L	0.956	256.42 ppb	0.956	0.37%
Ti 334.940†	4105403.9	6574.8 ug/L	1.94	6574.8 ppb	1.94	0.03%
Tl 190.801†	-247.1	-0.6230 ug/L	1.27105	-0.6230 ppb	1.27105	204.04%
U 409.014†	-6074.1	-195.00 ug/L	3.089	-195.00 ppb	3.089	1.58%
V 292.402†	43591.8	266.51 ug/L	1.007	266.51 ppb	1.007	0.38%
Zn 213.857†	27288.7	241.77 ug/L	0.339	241.77 ppb	0.339	0.14%
SiO2†	1028358.9	69361 ug/L	171.8	69361 ppb	171.8	0.25%

Sequence No.: 64

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/12/2010 22:54:42

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	5313.2	5313.2	104 %		22:56:34
1	Y RADIAL	5662.8	5662.8	102.9 %		22:56:34
1	Al 396.153Radial†	6703.3	6466.9	5147.7 ug/L	5147.7 ppb	22:56:34
1	Ca 317.933Radial†	3271.4	3133.8	5058.8 ug/L	5058.8 ppb	22:56:54
1	Fe 238.204 Radial†	627.7	593.5	5061.1 ug/L	5061.1 ppb	22:56:54
1	K 766.490 Radial†	30863.2	27234.9	4953.4 ug/L	4953.4 ppb	22:56:34
1	Mg 279.077 IEC†	164.0	155.0	5148.6 ug/L	5148.6 ppb	22:56:54
1	Na 589.592 Radial†	33258.6	33364.0	9563.8 ug/L	9563.8 ppb	22:56:34
1	Sr 421.552†	79908.7	77007.2	491.62 ug/L	491.62 ppb	22:56:34
1	Sc 361.383	873191.9	873191.9	101.76 %		22:57:51
1	Y 371.029	728427.5	728427.5	100.10 %		22:57:51
1	Ag 328.068†	112129.4	109830.6	507.11 ug/L	507.11 ppb	22:57:56
1	As 188.979†	1174.0	1177.6	507.66 ug/L	507.66 ppb	22:58:17
1	B 249.677†	21757.2	21995.6	491.44 ug/L	491.44 ppb	22:57:56
1	Ba 233.527†	65533.8	64407.6	500.30 ug/L	500.30 ppb	22:57:56
1	Be 313.107†	1361830.4	1342723.4	508.43 ug/L	508.43 ppb	22:57:51
1	Cd 226.502†	46300.7	45700.5	502.63 ug/L	502.63 ppb	22:57:56
1	Co 228.616†	25111.0	24753.4	502.36 ug/L	502.36 ppb	22:57:56
1	Cr 267.716†	46141.6	45263.6	502.80 ug/L	502.80 ppb	22:57:56
1	Cu 324.752†	175956.7	166507.3	496.70 ug/L	496.70 ppb	22:57:56
1	Mn 257.610†	461925.0	453496.4	497.62 ug/L	497.62 ppb	22:57:51
1	Mo 202.031†	7345.9	7197.0	502.63 ug/L	502.63 ppb	22:58:17
1	Ni 231.604†	20834.1	20406.3	504.69 ug/L	504.69 ppb	22:57:56
1	P 214.914†	4459.8	4162.2	2382.4 ug/L	2382.4 ppb	22:58:17
1	Pb 220.353†	4165.9	4156.0	504.68 ug/L	504.68 ppb	22:58:17
1	S 181.975 Axial†	776.2	718.9	999.52 ug/L	999.52 ppb	22:58:17
1	Sb 206.836†	1520.1	1460.3	513.08 ug/L	513.08 ppb	22:58:17
1	Se 196.026†	791.6	810.0	526.87 ug/L	526.87 ppb	22:58:17
1	Si 251.611†	81373.1	79503.3	2510.6 ug/L	2510.6 ppb	22:57:56
1	Sn 189.927†	2930.6	2878.2	502.31 ug/L	502.31 ppb	22:58:17
1	Ti 334.940†	311412.0	307353.7	492.02 ug/L	492.02 ppb	22:57:56
1	Tl 190.801†	1647.4	1652.9	502.34 ug/L	502.34 ppb	22:58:17
1	U 409.014†	15497.1	17092.6	501.49 ug/L	501.49 ppb	22:57:56
1	V 292.402†	73845.9	73926.9	508.13 ug/L	508.13 ppb	22:57:56
1	Zn 213.857†	55466.3	53881.2	501.42 ug/L	501.42 ppb	22:57:56
1	SiO2†	81741.9	79867.4	5373.3 ug/L	5373.3 ppb	22:59:24
2	Sc Radial	5318.7	5318.7	104 %		22:56:59
2	Y RADIAL	5601.3	5601.3	101.7 %		22:56:59
2	Al 396.153Radial†	6691.4	6448.8	5133.4 ug/L	5133.4 ppb	22:56:59
2	Ca 317.933Radial†	3272.0	3131.2	5054.5 ug/L	5054.5 ppb	22:57:19
2	Fe 238.204 Radial†	623.0	588.3	5017.0 ug/L	5017.0 ppb	22:57:19
2	K 766.490 Radial†	30517.3	26871.1	4887.2 ug/L	4887.2 ppb	22:56:59
2	Mg 279.077 IEC†	165.0	155.8	5173.8 ug/L	5173.8 ppb	22:57:19
2	Na 589.592 Radial†	32965.1	33048.2	9473.3 ug/L	9473.3 ppb	22:56:59
2	Sr 421.552†	79279.8	76322.2	487.24 ug/L	487.24 ppb	22:56:59
2	Sc 361.383	883781.7	883781.7	103.00 %		22:58:22
2	Y 371.029	737082.2	737082.2	101.29 %		22:58:22
2	Ag 328.068†	112774.1	109136.3	503.90 ug/L	503.90 ppb	22:58:27
2	As 188.979†	1177.4	1167.1	503.16 ug/L	503.16 ppb	22:58:48
2	B 249.677†	22054.0	22027.5	492.17 ug/L	492.17 ppb	22:58:27
2	Ba 233.527†	66009.0	64097.3	497.89 ug/L	497.89 ppb	22:58:27
2	Be 313.107†	1379253.7	1343604.4	508.76 ug/L	508.76 ppb	22:58:22
2	Cd 226.502†	46715.3	45557.9	501.06 ug/L	501.06 ppb	22:58:27
2	Co 228.616†	25340.1	24680.2	500.87 ug/L	500.87 ppb	22:58:27
2	Cr 267.716†	46547.3	45114.2	501.14 ug/L	501.14 ppb	22:58:27
2	Cu 324.752†	176691.0	165148.4	492.65 ug/L	492.65 ppb	22:58:27
2	Mn 257.610†	467749.0	453711.9	497.85 ug/L	497.85 ppb	22:58:22
2	Mo 202.031†	7379.0	7142.7	498.84 ug/L	498.84 ppb	22:58:48
2	Ni 231.604†	20992.0	20314.3	502.41 ug/L	502.41 ppb	22:58:27

2	P 214.914†	4510.8	4159.3	2381.6 ug/L	2381.6 ppb	22:58:48
2	Pb 220.353†	4183.8	4124.3	500.84 ug/L	500.84 ppb	22:58:48
2	S 181.975 Axial†	786.5	719.7	1000.6 ug/L	1000.6 ppb	22:58:48
2	Sb 206.836†	1534.9	1456.8	511.80 ug/L	511.80 ppb	22:58:48
2	Se 196.026†	801.8	810.5	527.08 ug/L	527.08 ppb	22:58:48
2	Si 251.611†	82105.1	79255.9	2502.8 ug/L	2502.8 ppb	22:58:27
2	Sn 189.927†	2954.8	2867.2	500.39 ug/L	500.39 ppb	22:58:48
2	Ti 334.940†	313024.3	305252.2	488.65 ug/L	488.65 ppb	22:58:27
2	Tl 190.801†	1664.6	1650.3	501.52 ug/L	501.52 ppb	22:58:48
2	U 409.014†	15610.9	17020.6	499.38 ug/L	499.38 ppb	22:58:27
2	V 292.402†	74334.8	73532.1	505.41 ug/L	505.41 ppb	22:58:27
2	Zn 213.857†	55847.2	53597.9	498.78 ug/L	498.78 ppb	22:58:27
2	SiO2†	81518.6	78688.1	5293.8 ug/L	5293.8 ppb	22:59:29
3	Sc Radial	5223.3	5223.3	102 %		22:57:24
3	Y RADIAL	5554.3	5554.3	100.9 %		22:57:24
3	Al 396.153Radial†	6611.9	6488.5	5165.3 ug/L	5165.3 ppb	22:57:24
3	Ca 317.933Radial†	3284.8	3201.3	5167.6 ug/L	5167.6 ppb	22:57:44
3	Fe 238.204 Radial†	625.9	602.1	5134.3 ug/L	5134.3 ppb	22:57:44
3	K 766.490 Radial†	30141.8	27039.7	4917.9 ug/L	4917.9 ppb	22:57:24
3	Mg 279.077 IEC†	166.0	159.7	5302.8 ug/L	5302.8 ppb	22:57:44
3	Na 589.592 Radial†	32477.4	33150.0	9502.5 ug/L	9502.5 ppb	22:57:24
3	Sr 421.552†	78239.6	76697.0	489.64 ug/L	489.64 ppb	22:57:24
3	Sc 361.383	889753.3	889753.3	103.69 %		22:58:53
3	Y 371.029	740457.8	740457.8	101.76 %		22:58:53
3	Ag 328.068†	113605.3	109203.0	504.25 ug/L	504.25 ppb	22:58:58
3	As 188.979†	1183.2	1165.0	502.31 ug/L	502.31 ppb	22:59:18
3	B 249.677†	22183.0	22008.3	491.72 ug/L	491.72 ppb	22:58:58
3	Ba 233.527†	66610.9	64247.6	499.06 ug/L	499.06 ppb	22:58:58
3	Be 313.107†	1383551.9	1338762.0	506.93 ug/L	506.93 ppb	22:58:53
3	Cd 226.502†	47008.4	45536.2	500.81 ug/L	500.81 ppb	22:58:58
3	Co 228.616†	25540.8	24708.6	501.44 ug/L	501.44 ppb	22:58:58
3	Cr 267.716†	46770.5	45026.1	500.17 ug/L	500.17 ppb	22:58:58
3	Cu 324.752†	178271.4	165521.2	493.77 ug/L	493.77 ppb	22:58:58
3	Mn 257.610†	470484.8	453302.3	497.41 ug/L	497.41 ppb	22:58:53
3	Mo 202.031†	7368.1	7084.1	494.76 ug/L	494.76 ppb	22:59:18
3	Ni 231.604†	21128.3	20308.9	502.28 ug/L	502.28 ppb	22:58:58
3	P 214.914†	4455.1	4076.2	2331.3 ug/L	2331.3 ppb	22:59:18
3	Pb 220.353†	4170.4	4084.1	495.97 ug/L	495.97 ppb	22:59:18
3	S 181.975 Axial†	769.2	698.0	970.34 ug/L	970.34 ppb	22:59:18
3	Sb 206.836†	1516.0	1428.6	502.08 ug/L	502.08 ppb	22:59:18
3	Se 196.026†	795.0	798.8	520.01 ug/L	520.01 ppb	22:59:18
3	Si 251.611†	82658.6	79254.6	2502.8 ug/L	2502.8 ppb	22:58:58
3	Sn 189.927†	2949.7	2843.0	496.20 ug/L	496.20 ppb	22:59:18
3	Ti 334.940†	315756.3	305847.2	489.61 ug/L	489.61 ppb	22:58:58
3	Tl 190.801†	1642.0	1617.6	491.67 ug/L	491.67 ppb	22:59:18
3	U 409.014†	15602.1	16910.4	496.12 ug/L	496.12 ppb	22:58:58
3	V 292.402†	74914.3	73606.5	505.83 ug/L	505.83 ppb	22:58:58
3	Zn 213.857†	56230.7	53603.8	498.83 ug/L	498.83 ppb	22:58:58
3	SiO2†	82260.3	78872.2	5306.3 ug/L	5306.3 ppb	22:59:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	882242.3	102.82 %	0.977			0.95%
Sc Radial	5285.0	103 %	1.0			1.01%
Y 371.029	735322.5	101.05 %	0.853			0.84%
Y RADIAL	5606.1	101.8 %	0.99			0.97%
Ag 328.068†	109390.0	505.09 ug/L	1.761	505.09 ppb	1.761	0.35%
QC value within limits for Ag 328.068 Recovery = 101.02%						
Al 396.153Radial†	6468.1	5148.8 ug/L	16.00	5148.8 ppb	16.00	0.31%
QC value within limits for Al 396.153Radial Recovery = 102.98%						
As 188.979†	1169.9	504.38 ug/L	2.873	504.38 ppb	2.873	0.57%
QC value within limits for As 188.979 Recovery = 100.88%						
B 249.677†	22010.5	491.78 ug/L	0.368	491.78 ppb	0.368	0.07%
QC value within limits for B 249.677 Recovery = 98.36%						
Ba 233.527†	64250.8	499.08 ug/L	1.206	499.08 ppb	1.206	0.24%
QC value within limits for Ba 233.527 Recovery = 99.82%						
Be 313.107†	1341696.6	508.04 ug/L	0.975	508.04 ppb	0.975	0.19%
QC value within limits for Be 313.107 Recovery = 101.61%						
Ca 317.933Radial†	3155.4	5093.7 ug/L	64.12	5093.7 ppb	64.12	1.26%

QC value within limits for Ca 317.933 Radial Recovery = 101.87%							
Cd	226.502†	45598.2	501.50 ug/L	0.985	501.50 ppb	0.985	0.20%
QC value within limits for Cd 226.502 Recovery = 100.30%							
Co	228.616†	24714.1	501.56 ug/L	0.750	501.56 ppb	0.750	0.15%
QC value within limits for Co 228.616 Recovery = 100.31%							
Cr	267.716†	45134.7	501.37 ug/L	1.332	501.37 ppb	1.332	0.27%
QC value within limits for Cr 267.716 Recovery = 100.27%							
Cu	324.752†	165725.7	494.37 ug/L	2.094	494.37 ppb	2.094	0.42%
QC value within limits for Cu 324.752 Recovery = 98.87%							
Fe	238.204 Radial†	594.6	5070.8 ug/L	59.27	5070.8 ppb	59.27	1.17%
QC value within limits for Fe 238.204 Radial Recovery = 101.42%							
K	766.490 Radial†	27048.6	4919.5 ug/L	33.13	4919.5 ppb	33.13	0.67%
QC value within limits for K 766.490 Radial Recovery = 98.39%							
Mg	279.077 IEC†	156.8	5208.4 ug/L	82.70	5208.4 ppb	82.70	1.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.17%							
Mn	257.610†	453503.5	497.63 ug/L	0.222	497.63 ppb	0.222	0.04%
QC value within limits for Mn 257.610 Recovery = 99.53%							
Mo	202.031†	7141.3	498.74 ug/L	3.937	498.74 ppb	3.937	0.79%
QC value within limits for Mo 202.031 Recovery = 99.75%							
Na	589.592 Radial†	33187.4	9513.2 ug/L	46.19	9513.2 ppb	46.19	0.49%
QC value within limits for Na 589.592 Radial Recovery = 95.13%							
Ni	231.604†	20343.2	503.13 ug/L	1.354	503.13 ppb	1.354	0.27%
QC value within limits for Ni 231.604 Recovery = 100.63%							
P	214.914†	4132.6	2365.1 ug/L	29.26	2365.1 ppb	29.26	1.24%
QC value within limits for P 214.914 Recovery = 94.61%							
Pb	220.353†	4121.5	500.50 ug/L	4.366	500.50 ppb	4.366	0.87%
QC value within limits for Pb 220.353 Recovery = 100.10%							
S	181.975 Axial†	712.2	990.16 ug/L	17.178	990.16 ppb	17.178	1.73%
QC value within limits for S 181.975 Axial Recovery = 99.02%							
Sb	206.836†	1448.6	508.99 ug/L	6.016	508.99 ppb	6.016	1.18%
QC value within limits for Sb 206.836 Recovery = 101.80%							
Se	196.026†	806.4	524.65 ug/L	4.022	524.65 ppb	4.022	0.77%
QC value within limits for Se 196.026 Recovery = 104.93%							
Si	251.611†	79338.0	2505.4 ug/L	4.49	2505.4 ppb	4.49	0.18%
QC value within limits for Si 251.611 Recovery = 100.22%							
Sn	189.927†	2862.8	499.63 ug/L	3.121	499.63 ppb	3.121	0.62%
QC value within limits for Sn 189.927 Recovery = 99.93%							
Sr	421.552†	76675.5	489.50 ug/L	2.190	489.50 ppb	2.190	0.45%
QC value within limits for Sr 421.552 Recovery = 97.90%							
Ti	334.940†	306151.0	490.09 ug/L	1.734	490.09 ppb	1.734	0.35%
QC value within limits for Ti 334.940 Recovery = 98.02%							
Tl	190.801†	1640.3	498.51 ug/L	5.938	498.51 ppb	5.938	1.19%
QC value within limits for Tl 190.801 Recovery = 99.70%							
U	409.014†	17007.9	498.99 ug/L	2.703	498.99 ppb	2.703	0.54%
QC value within limits for U 409.014 Recovery = 99.80%							
V	292.402†	73688.5	506.46 ug/L	1.467	506.46 ppb	1.467	0.29%
QC value within limits for V 292.402 Recovery = 101.29%							
Zn	213.857†	53694.3	499.68 ug/L	1.509	499.68 ppb	1.509	0.30%
QC value within limits for Zn 213.857 Recovery = 99.94%							
SiO2†		79142.5	5324.5 ug/L	42.71	5324.5 ppb	42.71	0.80%
QC value within limits for SiO2 Recovery = 99.57%							

All analyte(s) passed QC.

Sequence No.: 65

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 23:01:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5420.8	5420.8	106 %		23:03:36
1	Y RADIAL	5784.4	5784.4	105.1 %		23:03:36
1	Al 396.153Radial†	-9.5	-2.8	-2.2443 ug/L	-2.2443 ppb	23:03:36
1	Ca 317.933Radial†	17.5	-2.6	-4.2754 ug/L	-4.2754 ppb	23:03:56
1	Fe 238.204 Radial†	13.0	0.8	6.4294 ug/L	6.4294 ppb	23:03:56
1	K 766.490 Radial†	2867.0	196.9	35.853 ug/L	35.853 ppb	23:03:36
1	Mg 279.077 IEC†	2.8	-0.4	-11.737 ug/L	-11.737 ppb	23:03:56
1	Na 589.592 Radial†	-1391.6	-5.7	-1.6447 ug/L	-1.6447 ppb	23:03:36
1	Sr 421.552†	9.1	-1.1	-0.0071 ug/L	-0.0071 ppb	23:03:36
1	Sc 361.383	867712.3	867712.3	101.12 %		23:04:53
1	Y 371.029	735707.2	735707.2	101.11 %		23:04:53
1	Ag 328.068†	357.2	-3.8	-0.0158 ug/L	-0.0158 ppb	23:04:53
1	As 188.979†	-31.9	-7.6	-3.2398 ug/L	-3.2398 ppb	23:05:13
1	B 249.677†	-491.6	128.9	2.8927 ug/L	2.8927 ppb	23:05:13
1	Ba 233.527†	-8.2	0.4	0.0034 ug/L	0.0034 ppb	23:05:13
1	Be 313.107†	-4315.1	207.5	0.0783 ug/L	0.0783 ppb	23:04:53
1	Cd 226.502†	-191.4	12.3	0.1355 ug/L	0.1355 ppb	23:05:13
1	Co 228.616†	-69.6	8.4	0.1712 ug/L	0.1712 ppb	23:05:13
1	Cr 267.716†	91.6	11.6	0.1289 ug/L	0.1289 ppb	23:05:13
1	Cu 324.752†	6441.3	-32.7	-0.0973 ug/L	-0.0973 ppb	23:04:53
1	Mn 257.610†	441.6	6.9	0.0087 ug/L	0.0087 ppb	23:05:13
1	Mo 202.031†	22.7	0.9	0.0605 ug/L	0.0605 ppb	23:05:13
1	Ni 231.604†	98.7	30.6	0.7570 ug/L	0.7570 ppb	23:05:13
1	P 214.914†	209.5	-13.2	-7.8883 ug/L	-7.8883 ppb	23:05:13
1	Pb 220.353†	-63.8	-0.9	-0.1136 ug/L	-0.1136 ppb	23:05:13
1	S 181.975 Axial†	49.8	5.4	7.5272 ug/L	7.5272 ppb	23:05:13
1	Sb 206.836†	43.2	9.3	3.1567 ug/L	3.1567 ppb	23:05:13
1	Se 196.026†	-34.5	-2.0	-1.2625 ug/L	-1.2625 ppb	23:05:13
1	Si 251.611†	588.4	121.2	3.8373 ug/L	3.8373 ppb	23:05:13
1	Sn 189.927†	3.1	1.4	0.2451 ug/L	0.2451 ppb	23:05:13
1	Ti 334.940†	-1364.4	-15.1	-0.0239 ug/L	-0.0239 ppb	23:04:53
1	Tl 190.801†	-32.3	2.1	0.6339 ug/L	0.6339 ppb	23:05:13
1	U 409.014†	-1880.1	4.6	0.1354 ug/L	0.1354 ppb	23:04:53
1	V 292.402†	-1388.6	-13.5	-0.0914 ug/L	-0.0914 ppb	23:04:53
1	Zn 213.857†	660.3	28.3	0.2602 ug/L	0.2602 ppb	23:05:13
1	SiO2†	568.2	102.9	6.9359 ug/L	6.9359 ppb	23:06:09
2	Sc Radial	5330.5	5330.5	104 %		23:04:01
2	Y RADIAL	5696.3	5696.3	103.5 %		23:04:01
2	Al 396.153Radial†	-0.3	5.9	4.7171 ug/L	4.7171 ppb	23:04:01
2	Ca 317.933Radial†	18.0	-1.9	-3.0971 ug/L	-3.0971 ppb	23:04:21
2	Fe 238.204 Radial†	10.5	-1.4	-12.319 ug/L	-12.319 ppb	23:04:21
2	K 766.490 Radial†	3061.0	429.1	78.159 ug/L	78.159 ppb	23:04:01
2	Mg 279.077 IEC†	3.0	-0.1	-3.8834 ug/L	-3.8834 ppb	23:04:21
2	Na 589.592 Radial†	-1470.8	-104.1	-29.832 ug/L	-29.832 ppb	23:04:01
2	Sr 421.552†	32.7	21.7	0.1385 ug/L	0.1385 ppb	23:04:01
2	Sc 361.383	867166.8	867166.8	101.06 %		23:05:18
2	Y 371.029	734411.3	734411.3	100.93 %		23:05:18
2	Ag 328.068†	316.2	-44.2	-0.2010 ug/L	-0.2010 ppb	23:05:18
2	As 188.979†	-19.9	4.2	1.8068 ug/L	1.8068 ppb	23:05:38
2	B 249.677†	-508.3	112.2	2.5197 ug/L	2.5197 ppb	23:05:38
2	Ba 233.527†	-4.5	4.1	0.0330 ug/L	0.0330 ppb	23:05:38
2	Be 313.107†	-4331.3	188.8	0.0717 ug/L	0.0717 ppb	23:05:18
2	Cd 226.502†	-196.0	7.7	0.0854 ug/L	0.0854 ppb	23:05:38
2	Co 228.616†	-80.9	-2.8	-0.0579 ug/L	-0.0579 ppb	23:05:38
2	Cr 267.716†	72.3	-7.4	-0.0800 ug/L	-0.0800 ppb	23:05:38
2	Cu 324.752†	6291.5	-176.9	-0.5267 ug/L	-0.5267 ppb	23:05:18
2	Mn 257.610†	468.1	33.4	0.0356 ug/L	0.0356 ppb	23:05:38
2	Mo 202.031†	16.7	-5.1	-0.3558 ug/L	-0.3558 ppb	23:05:38
2	Ni 231.604†	77.1	9.3	0.2293 ug/L	0.2293 ppb	23:05:38

2	P 214.914†	234.7	11.9	7.2993 ug/L	7.2993 ppb	23:05:38
2	Pb 220.353†	-69.0	-6.1	-0.7376 ug/L	-0.7376 ppb	23:05:38
2	S 181.975 Axial†	42.3	-2.1	-2.8600 ug/L	-2.8600 ppb	23:05:38
2	Sb 206.836†	32.3	-1.5	-0.4999 ug/L	-0.4999 ppb	23:05:38
2	Se 196.026†	-31.4	0.9	0.5415 ug/L	0.5415 ppb	23:05:38
2	Si 251.611†	563.8	97.2	3.0816 ug/L	3.0816 ppb	23:05:38
2	Sn 189.927†	5.4	3.6	0.6339 ug/L	0.6339 ppb	23:05:38
2	Ti 334.940†	-1258.1	89.2	0.1442 ug/L	0.1442 ppb	23:05:18
2	Tl 190.801†	-35.7	-1.3	-0.3833 ug/L	-0.3833 ppb	23:05:38
2	U 409.014†	-1996.9	-112.1	-3.2979 ug/L	-3.2979 ppb	23:05:18
2	V 292.402†	-1280.8	92.4	0.6165 ug/L	0.6165 ppb	23:05:18
2	Zn 213.857†	643.0	11.6	0.1092 ug/L	0.1092 ppb	23:05:38
2	SiO2†	573.7	108.7	7.3404 ug/L	7.3404 ppb	23:06:14
3	Sc Radial	5348.5	5348.5	104 %		23:04:26
3	Y RADIAL	5723.3	5723.3	104.0 %		23:04:26
3	Al 396.153Radial†	14.8	20.4	16.315 ug/L	16.315 ppb	23:04:26
3	Ca 317.933Radial†	21.7	1.6	2.5665 ug/L	2.5665 ppb	23:04:46
3	Fe 238.204 Radial†	10.8	-1.2	-10.163 ug/L	-10.163 ppb	23:04:46
3	K 766.490 Radial†	2876.5	242.5	44.171 ug/L	44.171 ppb	23:04:26
3	Mg 279.077 IEC†	0.2	-2.9	-96.257 ug/L	-96.257 ppb	23:04:46
3	Na 589.592 Radial†	-1435.6	-65.6	-18.799 ug/L	-18.799 ppb	23:04:26
3	Sr 421.552†	36.9	25.5	0.1630 ug/L	0.1630 ppb	23:04:26
3	Sc 361.383	870620.0	870620.0	101.46 %		23:05:43
3	Y 371.029	737605.1	737605.1	101.37 %		23:05:43
3	Ag 328.068†	350.2	-11.9	-0.0510 ug/L	-0.0510 ppb	23:05:43
3	As 188.979†	-20.4	3.9	1.6476 ug/L	1.6476 ppb	23:06:03
3	B 249.677†	-511.6	110.9	2.4907 ug/L	2.4907 ppb	23:06:03
3	Ba 233.527†	-6.8	1.9	0.0150 ug/L	0.0150 ppb	23:06:03
3	Be 313.107†	-4320.3	216.6	0.0820 ug/L	0.0820 ppb	23:05:43
3	Cd 226.502†	-196.0	8.5	0.0930 ug/L	0.0930 ppb	23:06:03
3	Co 228.616†	-79.1	-0.8	-0.0159 ug/L	-0.0159 ppb	23:06:03
3	Cr 267.716†	79.2	-0.9	-0.0074 ug/L	-0.0074 ppb	23:06:03
3	Cu 324.752†	6338.6	-155.2	-0.4602 ug/L	-0.4602 ppb	23:05:43
3	Mn 257.610†	450.4	14.1	0.0184 ug/L	0.0184 ppb	23:06:03
3	Mo 202.031†	18.0	-3.9	-0.2715 ug/L	-0.2715 ppb	23:06:03
3	Ni 231.604†	78.2	10.1	0.2488 ug/L	0.2488 ppb	23:06:03
3	P 214.914†	215.5	-7.9	-4.6188 ug/L	-4.6188 ppb	23:06:03
3	Pb 220.353†	-66.4	-3.2	-0.3885 ug/L	-0.3885 ppb	23:06:03
3	S 181.975 Axial†	53.0	8.4	11.677 ug/L	11.677 ppb	23:06:03
3	Sb 206.836†	34.9	1.0	0.3361 ug/L	0.3361 ppb	23:06:03
3	Se 196.026†	-27.6	4.8	3.0018 ug/L	3.0018 ppb	23:06:03
3	Si 251.611†	545.9	77.4	2.4524 ug/L	2.4524 ppb	23:06:03
3	Sn 189.927†	8.6	6.8	1.1908 ug/L	1.1908 ppb	23:06:03
3	Ti 334.940†	-1311.2	41.9	0.0780 ug/L	0.0780 ppb	23:05:43
3	Tl 190.801†	-32.6	2.0	0.5926 ug/L	0.5926 ppb	23:06:03
3	U 409.014†	-2103.3	-209.1	-6.1549 ug/L	-6.1549 ppb	23:05:43
3	V 292.402†	-1319.1	59.6	0.3881 ug/L	0.3881 ppb	23:05:43
3	Zn 213.857†	665.8	31.5	0.2958 ug/L	0.2958 ppb	23:06:03
3	SiO2†	565.3	98.1	6.6248 ug/L	6.6248 ppb	23:06:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	868499.7	101.22 %	0.216			0.21%
Sc Radial	5366.6	105 %	0.9			0.89%
Y 371.029	735907.9	101.13 %	0.221			0.22%
Y RADIAL	5734.7	104.2 %	0.82			0.79%
Ag 328.068†	-20.0	-0.0893 ug/L	0.09837	-0.0893 ppb	0.09837	110.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	7.8	6.2626 ug/L	9.37574	6.2626 ppb	9.37574	149.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.2	0.0715 ug/L	2.86883	0.0715 ppb	2.86883	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	117.3	2.6344 ug/L	0.22415	2.6344 ppb	0.22415	8.51%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.1	0.0171 ug/L	0.01491	0.0171 ppb	0.01491	87.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	204.3	0.0773 ug/L	0.00524	0.0773 ppb	0.00524	6.77%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.0	-1.6020 ug/L	3.65779	-1.6020 ppb	3.65779	228.33%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	9.5	0.1046 ug/L	0.02700	0.1046 ppb	0.02700	25.80%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	1.6	0.0325 ug/L	0.12197	0.0325 ppb	0.12197	375.43%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	1.1	0.0138 ug/L	0.10603	0.0138 ppb	0.10603	766.77%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-121.6	-0.3614 ug/L	0.23110	-0.3614 ppb	0.23110	63.94%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.6	-5.3510 ug/L	10.25890	-5.3510 ppb	10.25890	191.72%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	289.5	52.728 ug/L	22.4137	52.728 ppb	22.4137	42.51%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.1	-37.293 ug/L	51.2157	-37.293 ppb	51.2157	137.33%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	18.1	0.0209 ug/L	0.01360	0.0209 ppb	0.01360	65.16%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-2.7	-0.1889 ug/L	0.22007	-0.1889 ppb	0.22007	116.47%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-58.5	-16.759 ug/L	14.2041	-16.759 ppb	14.2041	84.76%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	16.6	0.4117 ug/L	0.29923	0.4117 ppb	0.29923	72.68%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-3.1	-1.7359 ug/L	7.99368	-1.7359 ppb	7.99368	460.48%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-3.4	-0.4132 ug/L	0.31273	-0.4132 ppb	0.31273	75.69%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.9	5.4481 ug/L	7.48821	5.4481 ppb	7.48821	137.45%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.9	0.9977 ug/L	1.91598	0.9977 ppb	1.91598	192.05%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.2	0.7603 ug/L	2.14058	0.7603 ppb	2.14058	281.56%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	98.6	3.1238 ug/L	0.69339	3.1238 ppb	0.69339	22.20%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.0	0.6899 ug/L	0.47533	0.6899 ppb	0.47533	68.89%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	15.4	0.0981 ug/L	0.09195	0.0981 ppb	0.09195	93.69%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	38.7	0.0661 ug/L	0.08468	0.0661 ppb	0.08468	128.12%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.9	0.2811 ug/L	0.57573	0.2811 ppb	0.57573	204.82%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-105.5	-3.1058 ug/L	3.14957	-3.1058 ppb	3.14957	101.41%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	46.2	0.3044 ug/L	0.36131	0.3044 ppb	0.36131	118.70%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	23.8	0.2217 ug/L	0.09910	0.2217 ppb	0.09910	44.70%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	103.2	6.9670 ug/L	0.35881	6.9670 ppb	0.35881	5.15%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

1/13/2010 11:42:01 Hg ReAlign... Actual peak offset (nm): -0.009
Drift (nm): -0.000 Slit adjustment: 5

Analysis Begun

Start Time: 1/13/2010 11:42:46

Plasma On Time: 1/11/2010 06:15:31

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\011310.sif

Batch ID:

Results Data Set: 011310

Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 1/13/2010 11:38:22

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: 1/13/2010 11:42:47

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	5274.3	5274.3	99.3 %	11:44:40
1	Y RADIAL	5619.8	5619.8	99.07 %	11:44:40
1	Al 396.153Radial†	-8.1	-8.1	[0.00] ug/L	11:44:40
1	Ca 317.933Radial†	20.5	20.7	[0.00] ug/L	11:45:00
1	Fe 238.204 Radial†	9.0	9.1	[0.00] ug/L	11:45:00
1	K 766.490 Radial†	2713.9	2732.4	[0.00] ug/L	11:44:40
1	Mg 279.077 IEC†	0.9	0.9	[0.00] ug/L	11:45:00
1	Na 589.592 Radial†	-1607.7	-1618.7	[0.00] ug/L	11:44:40
1	Sr 421.552†	1.9	1.9	[0.00] ug/L	11:44:40
1	Sc 361.383	869727.5	869727.5	99.708 %	11:45:57
1	Y 371.029	730852.6	730852.6	99.641 %	11:45:57
1	Ag 328.068†	416.5	417.7	[0.00] ug/L	11:45:57
1	As 188.979†	-17.8	-17.9	[0.00] ug/L	11:46:17
1	B 249.677†	-622.6	-624.4	[0.00] ug/L	11:46:17
1	Ba 233.527†	-1.6	-1.6	[0.00] ug/L	11:46:17
1	Be 313.107†	-4278.6	-4291.2	[0.00] ug/L	11:45:57
1	Cd 226.502†	-209.9	-210.6	[0.00] ug/L	11:46:17
1	Co 228.616†	-75.0	-75.2	[0.00] ug/L	11:46:17
1	Cr 267.716†	70.4	70.6	[0.00] ug/L	11:46:17
1	Cu 324.752†	6626.6	6646.0	[0.00] ug/L	11:45:57
1	Mn 257.610†	469.9	471.3	[0.00] ug/L	11:46:17
1	Mo 202.031†	14.2	14.2	[0.00] ug/L	11:46:17
1	Ni 231.604†	98.2	98.5	[0.00] ug/L	11:46:17
1	P 214.914†	206.5	207.1	[0.00] ug/L	11:46:17
1	Pb 220.353†	-63.9	-64.0	[0.00] ug/L	11:46:17
1	S 181.975 Axial†	50.7	50.9	[0.00] ug/L	11:46:17
1	Sb 206.836†	21.9	21.9	[0.00] ug/L	11:46:17
1	Se 196.026†	-27.1	-27.1	[0.00] ug/L	11:46:17
1	Si 251.611†	442.2	443.5	[0.00] ug/L	11:46:17
1	Sn 189.927†	-2.1	-2.1	[0.00] ug/L	11:46:17
1	Ti 334.940†	-1361.2	-1365.2	[0.00] ug/L	11:45:57
1	Tl 190.801†	-40.4	-40.6	[0.00] ug/L	11:46:17
1	U 409.014†	-2128.5	-2134.7	[0.00] ug/L	11:45:57
1	V 292.402†	-1383.5	-1387.5	[0.00] ug/L	11:45:57
1	Zn 213.857†	994.2	997.2	[0.00] ug/L	11:46:17
1	SiO2†	459.9	461.2	[0.00] ug/L	11:47:13
2	Sc Radial	5302.3	5302.3	99.8 %	11:45:05
2	Y RADIAL	5673.6	5673.6	100.0 %	11:45:05
2	Al 396.153Radial†	-12.1	-12.2	[0.00] ug/L	11:45:05
2	Ca 317.933Radial†	20.4	20.4	[0.00] ug/L	11:45:25
2	Fe 238.204 Radial†	10.6	10.6	[0.00] ug/L	11:45:25
2	K 766.490 Radial†	2617.8	2621.8	[0.00] ug/L	11:45:05
2	Mg 279.077 IEC†	4.1	4.1	[0.00] ug/L	11:45:25
2	Na 589.592 Radial†	-1624.2	-1626.7	[0.00] ug/L	11:45:05
2	Sr 421.552†	24.1	24.2	[0.00] ug/L	11:45:05
2	Sc 361.383	867710.3	867710.3	99.477 %	11:46:22
2	Y 371.029	730115.3	730115.3	99.540 %	11:46:22
2	Ag 328.068†	328.6	330.4	[0.00] ug/L	11:46:22
2	As 188.979†	-26.4	-26.5	[0.00] ug/L	11:46:42
2	B 249.677†	-649.7	-653.1	[0.00] ug/L	11:46:42
2	Ba 233.527†	-12.4	-12.5	[0.00] ug/L	11:46:42
2	Be 313.107†	-4320.4	-4343.1	[0.00] ug/L	11:46:22
2	Cd 226.502†	-197.1	-198.1	[0.00] ug/L	11:46:42
2	Co 228.616†	-78.4	-78.8	[0.00] ug/L	11:46:42
2	Cr 267.716†	64.3	64.7	[0.00] ug/L	11:46:42
2	Cu 324.752†	6470.3	6504.3	[0.00] ug/L	11:46:22
2	Mn 257.610†	484.0	486.6	[0.00] ug/L	11:46:42
2	Mo 202.031†	27.6	27.7	[0.00] ug/L	11:46:42
2	Ni 231.604†	87.6	88.0	[0.00] ug/L	11:46:42
2	P 214.914†	214.3	215.4	[0.00] ug/L	11:46:42
2	Pb 220.353†	-70.1	-70.5	[0.00] ug/L	11:46:42
2	S 181.975 Axial†	40.9	41.1	[0.00] ug/L	11:46:42
2	Sb 206.836†	34.2	34.4	[0.00] ug/L	11:46:42
2	Se 196.026†	-22.6	-22.7	[0.00] ug/L	11:46:42
2	Si 251.611†	454.0	456.4	[0.00] ug/L	11:46:42
2	Sn 189.927†	4.1	4.1	[0.00] ug/L	11:46:42
2	Ti 334.940†	-1367.3	-1374.5	[0.00] ug/L	11:46:22
2	Tl 190.801†	-38.0	-38.2	[0.00] ug/L	11:46:42
2	U 409.014†	-2057.9	-2068.7	[0.00] ug/L	11:46:22
2	V 292.402†	-1353.8	-1360.9	[0.00] ug/L	11:46:22

2	Zn 213.857†	1008.8	1014.1	[0.00]	ug/L	11:46:42
2	SiO2†	429.8	432.1	[0.00]	ug/L	11:47:18
3	Sc Radial	5354.5	5354.5	101	%	11:45:30
3	Y RADIAL	5723.7	5723.7	100.9	%	11:45:30
3	Al 396.153Radial†	-30.2	-29.9	[0.00]	ug/L	11:45:30
3	Ca 317.933Radial†	23.8	23.6	[0.00]	ug/L	11:45:50
3	Fe 238.204 Radial†	10.9	10.8	[0.00]	ug/L	11:45:50
3	K 766.490 Radial†	2613.2	2591.7	[0.00]	ug/L	11:45:30
3	Mg 279.077 IEC†	4.7	4.7	[0.00]	ug/L	11:45:50
3	Na 589.592 Radial†	-1618.9	-1605.6	[0.00]	ug/L	11:45:30
3	Sr 421.552†	21.2	21.1	[0.00]	ug/L	11:45:30
3	Sc 361.383	879390.9	879390.9	100.82	%	11:46:47
3	Y 371.029	739499.2	739499.2	100.82	%	11:46:47
3	Ag 328.068†	392.9	389.7	[0.00]	ug/L	11:46:47
3	As 188.979†	-26.1	-25.8	[0.00]	ug/L	11:47:07
3	B 249.677†	-638.0	-632.8	[0.00]	ug/L	11:47:07
3	Ba 233.527†	-12.5	-12.4	[0.00]	ug/L	11:47:07
3	Be 313.107†	-4374.5	-4339.1	[0.00]	ug/L	11:46:47
3	Cd 226.502†	-200.8	-199.2	[0.00]	ug/L	11:47:07
3	Co 228.616†	-81.9	-81.2	[0.00]	ug/L	11:47:07
3	Cr 267.716†	85.0	84.4	[0.00]	ug/L	11:47:07
3	Cu 324.752†	6540.6	6487.7	[0.00]	ug/L	11:46:47
3	Mn 257.610†	487.2	483.3	[0.00]	ug/L	11:47:07
3	Mo 202.031†	19.9	19.8	[0.00]	ug/L	11:47:07
3	Ni 231.604†	97.0	96.2	[0.00]	ug/L	11:47:07
3	P 214.914†	213.7	212.0	[0.00]	ug/L	11:47:07
3	Pb 220.353†	-68.0	-67.5	[0.00]	ug/L	11:47:07
3	S 181.975 Axial†	42.0	41.6	[0.00]	ug/L	11:47:07
3	Sb 206.836†	31.5	31.3	[0.00]	ug/L	11:47:07
3	Se 196.026†	-22.8	-22.6	[0.00]	ug/L	11:47:07
3	Si 251.611†	433.9	430.4	[0.00]	ug/L	11:47:07
3	Sn 189.927†	0.3	0.3	[0.00]	ug/L	11:47:07
3	Ti 334.940†	-1322.2	-1311.5	[0.00]	ug/L	11:46:47
3	Tl 190.801†	-40.0	-39.7	[0.00]	ug/L	11:47:07
3	U 409.014†	-2045.3	-2028.8	[0.00]	ug/L	11:46:47
3	V 292.402†	-1436.0	-1424.3	[0.00]	ug/L	11:46:47
3	Zn 213.857†	986.9	978.9	[0.00]	ug/L	11:47:07
3	SiO2†	487.4	483.4	[0.00]	ug/L	11:47:23

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	872276.3	6243.49	0.72%	100.00 %
Sc Radial	5310.4	40.69	0.77%	100.0 %
Y 371.029	733489.0	5217.98	0.71%	100.00 %
Y RADIAL	5672.4	51.99	0.92%	100.0 %
Ag 328.068†	379.3	44.58	11.76%	[0.00] ug/L
Al 396.153Radial†	-16.7	11.61	69.33%	[0.00] ug/L
As 188.979†	-23.4	4.82	20.59%	[0.00] ug/L
B 249.677†	-636.8	14.77	2.32%	[0.00] ug/L
Ba 233.527†	-8.8	6.26	70.88%	[0.00] ug/L
Be 313.107†	-4324.5	28.91	0.67%	[0.00] ug/L
Ca 317.933Radial†	21.6	1.74	8.05%	[0.00] ug/L
Cd 226.502†	-202.6	6.90	3.41%	[0.00] ug/L
Co 228.616†	-78.4	3.04	3.88%	[0.00] ug/L
Cr 267.716†	73.2	10.10	13.79%	[0.00] ug/L
Cu 324.752†	6546.0	87.03	1.33%	[0.00] ug/L
Fe 238.204 Radial†	10.2	0.95	9.35%	[0.00] ug/L
K 766.490 Radial†	2648.6	74.13	2.80%	[0.00] ug/L
Mg 279.077 IEC†	3.2	2.01	62.54%	[0.00] ug/L
Mn 257.610†	480.4	8.05	1.68%	[0.00] ug/L
Mo 202.031†	20.6	6.80	33.07%	[0.00] ug/L
Na 589.592 Radial†	-1617.0	10.67	0.66%	[0.00] ug/L
Ni 231.604†	94.2	5.48	5.81%	[0.00] ug/L
P 214.914†	211.5	4.15	1.96%	[0.00] ug/L
Pb 220.353†	-67.3	3.24	4.80%	[0.00] ug/L
S 181.975 Axial†	44.5	5.50	12.34%	[0.00] ug/L
Sb 206.836†	29.2	6.49	22.22%	[0.00] ug/L
Se 196.026†	-24.1	2.60	10.78%	[0.00] ug/L
Si 251.611†	443.4	13.00	2.93%	[0.00] ug/L

Sn 189.927†	0.8	3.13	412.32%	[0.00] ug/L
Sr 421.552†	15.7	12.07	76.83%	[0.00] ug/L
Ti 334.940†	-1350.4	34.02	2.52%	[0.00] ug/L
Tl 190.801†	-39.5	1.19	3.01%	[0.00] ug/L
U 409.014†	-2077.4	53.52	2.58%	[0.00] ug/L
V 292.402†	-1390.9	31.87	2.29%	[0.00] ug/L
Zn 213.857†	996.7	17.62	1.77%	[0.00] ug/L
SiO2†	458.9	25.76	5.61%	[0.00] ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 1/13/2010 11:49:33
 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	5180.3	5180.3	97.6 %	11:51:30
1	Y RADIAL	5537.1	5537.1	97.62 %	11:51:30
1	K 766.490 Radial†	8186.3	5743.2	[1000] ug/L	11:51:25
1	Sr 421.552†	15377.8	15748.2	[100] ug/L	11:51:30
1	Sc 361.383	870685.5	870685.5	99.818 %	11:51:57
1	Y 371.029	728777.9	728777.9	99.358 %	11:51:57
1	Ag 328.068†	22920.1	22582.7	[100] ug/L	11:51:57
1	As 188.979†	210.6	234.4	[100] ug/L	11:52:17
1	B 249.677†	3768.1	4411.8	[100] ug/L	11:51:57
1	Ba 233.527†	13532.1	13565.7	[100] ug/L	11:51:57
1	Be 313.107†	275752.6	280580.8	[100] ug/L	11:51:57
1	Cd 226.502†	9354.7	9574.4	[100] ug/L	11:51:57
1	Co 228.616†	4908.1	4995.5	[100] ug/L	11:52:17
1	Cr 267.716†	9555.6	9499.8	[100] ug/L	11:51:57
1	Cu 324.752†	41195.1	34724.3	[100] ug/L	11:51:57
1	Mn 257.610†	96714.6	96410.9	[100] ug/L	11:51:57
1	Mo 202.031†	1478.4	1460.5	[100] ug/L	11:52:17
1	Ni 231.604†	4373.6	4287.3	[100] ug/L	11:51:57
1	P 214.914†	1064.8	855.3	[500] ug/L	11:52:17
1	Pb 220.353†	799.9	868.7	[100] ug/L	11:52:17
1	S 181.975 Axial†	189.2	145.0	[200] ug/L	11:52:17
1	Sb 206.836†	335.0	306.4	[100] ug/L	11:52:17
1	Se 196.026†	130.7	155.1	[100] ug/L	11:52:17
1	Si 251.611†	16599.9	16186.8	[500] ug/L	11:51:57
1	Sn 189.927†	588.2	588.5	[100] ug/L	11:52:17
1	Ti 334.940†	62801.4	64266.5	[100] ug/L	11:51:57
1	Tl 190.801†	304.2	344.2	[100] ug/L	11:52:17
1	U 409.014†	1433.3	3513.3	[100] ug/L	11:51:57
1	V 292.402†	13827.7	15243.9	[100] ug/L	11:51:57
1	Zn 213.857†	11868.9	10893.8	[100] ug/L	11:51:57
1	SiO2†	16474.1	16045.3	[1069.5] ug/L	11:53:14
2	Sc Radial	5253.8	5253.8	98.9 %	11:51:40
2	Y RADIAL	5595.3	5595.3	98.64 %	11:51:40
2	K 766.490 Radial†	8172.0	5611.4	[1000] ug/L	11:51:35
2	Sr 421.552†	15632.3	15784.9	[100] ug/L	11:51:40
2	Sc 361.383	867981.9	867981.9	99.508 %	11:52:23
2	Y 371.029	728247.0	728247.0	99.285 %	11:52:23
2	Ag 328.068†	22919.0	22653.1	[100] ug/L	11:52:23
2	As 188.979†	226.7	251.3	[100] ug/L	11:52:43
2	B 249.677†	3772.0	4427.5	[100] ug/L	11:52:23
2	Ba 233.527†	13477.9	13553.4	[100] ug/L	11:52:23
2	Be 313.107†	275418.9	281106.0	[100] ug/L	11:52:23
2	Cd 226.502†	9350.8	9599.7	[100] ug/L	11:52:23
2	Co 228.616†	4915.4	5018.1	[100] ug/L	11:52:43
2	Cr 267.716†	9512.1	9486.0	[100] ug/L	11:52:23
2	Cu 324.752†	41007.7	34664.6	[100] ug/L	11:52:23
2	Mn 257.610†	96361.6	96357.9	[100] ug/L	11:52:23
2	Mo 202.031†	1490.7	1477.5	[100] ug/L	11:52:43
2	Ni 231.604†	4358.5	4285.8	[100] ug/L	11:52:23
2	P 214.914†	1061.2	855.0	[500] ug/L	11:52:43
2	Pb 220.353†	795.2	866.5	[100] ug/L	11:52:43
2	S 181.975 Axial†	188.2	144.6	[200] ug/L	11:52:43
2	Sb 206.836†	323.2	295.6	[100] ug/L	11:52:43
2	Se 196.026†	130.1	154.8	[100] ug/L	11:52:43
2	Si 251.611†	16600.0	16238.7	[500] ug/L	11:52:23
2	Sn 189.927†	597.4	599.6	[100] ug/L	11:52:43
2	Ti 334.940†	62575.3	64235.3	[100] ug/L	11:52:23
2	Tl 190.801†	306.6	347.6	[100] ug/L	11:52:43
2	U 409.014†	1552.6	3637.6	[100] ug/L	11:52:23

2	V 292.402†	13842.1	15301.5	[100]	ug/L	11:52:23
2	Zn 213.857†	11777.9	10839.4	[100]	ug/L	11:52:23
2	SiO2†	16562.9	16185.9	[1069.5]	ug/L	11:53:19
3	Sc Radial	5120.0	5120.0	96.4	%	11:51:50
3	Y RADIAL	5468.9	5468.9	96.41	%	11:51:50
3	K 766.490 Radial†	8155.9	5810.6	[1000]	ug/L	11:51:45
3	Sr 421.552†	15259.5	15811.2	[100]	ug/L	11:51:50
3	Sc 361.383	867685.2	867685.2	99.474	%	11:52:48
3	Y 371.029	727161.9	727161.9	99.137	%	11:52:48
3	Ag 328.068†	23017.7	22760.2	[100]	ug/L	11:52:48
3	As 188.979†	226.3	250.9	[100]	ug/L	11:53:08
3	B 249.677†	3778.1	4434.8	[100]	ug/L	11:52:48
3	Ba 233.527†	13526.1	13606.5	[100]	ug/L	11:52:48
3	Be 313.107†	275464.4	281246.4	[100]	ug/L	11:52:48
3	Cd 226.502†	9312.0	9563.9	[100]	ug/L	11:52:48
3	Co 228.616†	4959.2	5063.8	[100]	ug/L	11:53:08
3	Cr 267.716†	9531.4	9508.6	[100]	ug/L	11:52:48
3	Cu 324.752†	41137.2	34808.8	[100]	ug/L	11:52:48
3	Mn 257.610†	96436.3	96466.1	[100]	ug/L	11:52:48
3	Mo 202.031†	1499.7	1487.0	[100]	ug/L	11:53:08
3	Ni 231.604†	4355.1	4283.9	[100]	ug/L	11:52:48
3	P 214.914†	1063.3	857.4	[500]	ug/L	11:53:08
3	Pb 220.353†	822.2	893.9	[100]	ug/L	11:53:08
3	S 181.975 Axial†	191.9	148.4	[200]	ug/L	11:53:08
3	Sb 206.836†	334.3	306.9	[100]	ug/L	11:53:08
3	Se 196.026†	130.0	154.8	[100]	ug/L	11:53:08
3	Si 251.611†	16642.9	16287.5	[500]	ug/L	11:52:48
3	Sn 189.927†	598.1	600.5	[100]	ug/L	11:53:08
3	Ti 334.940†	62707.7	64389.8	[100]	ug/L	11:52:48
3	Tl 190.801†	316.2	357.4	[100]	ug/L	11:53:08
3	U 409.014†	1418.8	3503.7	[100]	ug/L	11:52:48
3	V 292.402†	13618.3	15081.3	[100]	ug/L	11:52:48
3	Zn 213.857†	11840.8	10906.7	[100]	ug/L	11:52:48
3	SiO2†	16687.1	16316.5	[1069.5]	ug/L	11:53:24

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	868784.2	1653.24	0.19%	99.600 %	
Sc Radial	5184.7	67.00	1.29%	97.6 %	
Y 371.029	728062.2	823.70	0.11%	99.260 %	
Y RADIAL	5533.8	63.22	1.14%	97.56 %	
Ag 328.068†	22665.4	89.39	0.39%	[100] ug/L	
As 188.979†	245.5	9.61	3.92%	[100] ug/L	
B 249.677†	4424.7	11.79	0.27%	[100] ug/L	
Ba 233.527†	13575.2	27.79	0.20%	[100] ug/L	
Be 313.107†	280977.7	350.84	0.12%	[100] ug/L	
Cd 226.502†	9579.3	18.40	0.19%	[100] ug/L	
Co 228.616†	5025.8	34.82	0.69%	[100] ug/L	
Cr 267.716†	9498.1	11.41	0.12%	[100] ug/L	
Cu 324.752†	34732.6	72.50	0.21%	[100] ug/L	
K 766.490 Radial†	5721.8	101.30	1.77%	[1000] ug/L	
Mn 257.610†	96411.6	54.10	0.06%	[100] ug/L	
Mo 202.031†	1475.0	13.44	0.91%	[100] ug/L	
Ni 231.604†	4285.7	1.71	0.04%	[100] ug/L	
P 214.914†	855.9	1.34	0.16%	[500] ug/L	
Pb 220.353†	876.4	15.24	1.74%	[100] ug/L	
S 181.975 Axial†	146.0	2.09	1.43%	[200] ug/L	
Sb 206.836†	302.9	6.37	2.10%	[100] ug/L	
Se 196.026†	154.9	0.15	0.09%	[100] ug/L	
Si 251.611†	16237.7	50.35	0.31%	[500] ug/L	
Sn 189.927†	596.2	6.68	1.12%	[100] ug/L	
Sr 421.552†	15781.4	31.69	0.20%	[100] ug/L	
Ti 334.940†	64297.2	81.72	0.13%	[100] ug/L	
Tl 190.801†	349.7	6.85	1.96%	[100] ug/L	
U 409.014†	3551.6	74.71	2.10%	[100] ug/L	
V 292.402†	15208.9	114.24	0.75%	[100] ug/L	
Zn 213.857†	10880.0	35.74	0.33%	[100] ug/L	
SiO2†	16182.6	135.63	0.84%	[1069.5] ug/L	

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 1/13/2010 11:55:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	5213.8	5213.8	98.2 %		11:57:27
1	Y RADIAL	5494.5	5494.5	96.86 %		11:57:27
1	Al 396.153Radial†	6619.4	6758.7	[5000] ug/L		11:57:27
1	Ca 317.933Radial†	3297.1	3336.6	[5000] ug/L		11:57:47
1	K 766.490 Radial†	29724.0	27625.8	[5000] ug/L		11:57:27
1	Mg 279.077 IEC†	170.1	170.0	[5000] ug/L		11:57:47
1	Sr 421.552†	79287.9	80740.5	[500] ug/L		11:57:27
1	Sc 361.383	871708.5	871708.5	99.935 %		11:58:44
1	Y 371.029	720477.0	720477.0	98.226 %		11:58:44
1	Ag 328.068†	111151.4	110844.6	[500] ug/L		11:58:49
1	As 188.979†	1196.6	1220.8	[500] ug/L		11:59:09
1	B 249.677†	21657.0	22307.9	[500] ug/L		11:58:49
1	Ba 233.527†	65170.7	65221.9	[500] ug/L		11:58:49
1	Be 313.107†	1375301.4	1380521.7	[500] ug/L		11:58:44
1	Cd 226.502†	46139.1	46371.8	[500] ug/L		11:58:49
1	Co 228.616†	24978.1	25072.8	[500] ug/L		11:58:49
1	Cr 267.716†	45845.7	45802.4	[500] ug/L		11:58:49
1	Cu 324.752†	174641.7	168209.5	[500] ug/L		11:58:49
1	Mn 257.610†	464825.6	464647.9	[500] ug/L		11:58:44
1	Mo 202.031†	7344.6	7328.9	[500] ug/L		11:59:09
1	Ni 231.604†	20723.9	20643.2	[500] ug/L		11:58:49
1	P 214.914†	4483.7	4275.1	[2500] ug/L		11:59:09
1	Pb 220.353†	4173.5	4243.6	[500] ug/L		11:59:09
1	S 181.975 Axial†	788.8	744.7	[1000] ug/L		11:59:09
1	Sb 206.836†	1533.8	1505.6	[500] ug/L		11:59:09
1	Se 196.026†	794.5	819.1	[500] ug/L		11:59:09
1	Si 251.611†	80786.1	80395.3	[2500] ug/L		11:58:49
1	Sn 189.927†	2957.0	2958.2	[500] ug/L		11:59:09
1	Ti 334.940†	308376.6	309927.9	[500] ug/L		11:58:49
1	Tl 190.801†	1665.5	1706.0	[500] ug/L		11:59:09
1	U 409.014†	15099.2	17186.5	[500] ug/L		11:58:49
1	V 292.402†	73290.0	74728.6	[500] ug/L		11:58:49
1	Zn 213.857†	55400.3	54439.6	[500] ug/L		11:58:49
1	SiO2†	82216.1	81810.7	[5347.5] ug/L		12:00:17
2	Sc Radial	5276.7	5276.7	99.4 %		11:57:52
2	Y RADIAL	5567.1	5567.1	98.14 %		11:57:52
2	Al 396.153Radial†	6665.3	6724.6	[5000] ug/L		11:57:52
2	Ca 317.933Radial†	3284.8	3284.2	[5000] ug/L		11:58:12
2	K 766.490 Radial†	29877.5	27419.4	[5000] ug/L		11:57:52
2	Mg 279.077 IEC†	170.1	168.0	[5000] ug/L		11:58:12
2	Sr 421.552†	79654.6	80146.8	[500] ug/L		11:57:52
2	Sc 361.383	875974.8	875974.8	100.42 %		11:59:15
2	Y 371.029	725636.4	725636.4	98.929 %		11:59:15
2	Ag 328.068†	112111.8	111259.2	[500] ug/L		11:59:20
2	As 188.979†	1201.2	1219.6	[500] ug/L		11:59:40
2	B 249.677†	21880.0	22424.4	[500] ug/L		11:59:20
2	Ba 233.527†	65678.3	65409.8	[500] ug/L		11:59:20
2	Be 313.107†	1383273.6	1381757.5	[500] ug/L		11:59:15
2	Cd 226.502†	46586.1	46592.1	[500] ug/L		11:59:20
2	Co 228.616†	25171.2	25143.3	[500] ug/L		11:59:20
2	Cr 267.716†	46209.0	45940.6	[500] ug/L		11:59:20
2	Cu 324.752†	175901.2	168612.5	[500] ug/L		11:59:20
2	Mn 257.610†	466325.3	463876.0	[500] ug/L		11:59:15
2	Mo 202.031†	7370.2	7318.6	[500] ug/L		11:59:40
2	Ni 231.604†	20889.5	20707.1	[500] ug/L		11:59:20
2	P 214.914†	4512.5	4281.9	[2500] ug/L		11:59:40
2	Pb 220.353†	4201.1	4250.7	[500] ug/L		11:59:40
2	S 181.975 Axial†	791.0	743.2	[1000] ug/L		11:59:40
2	Sb 206.836†	1528.3	1492.7	[500] ug/L		11:59:40

2	Se 196.026†	801.5	822.3	[500]	ug/L	11:59:40
2	Si 251.611†	81461.8	80674.4	[2500]	ug/L	11:59:20
2	Sn 189.927†	2967.2	2954.0	[500]	ug/L	11:59:40
2	Ti 334.940†	310650.7	310689.4	[500]	ug/L	11:59:20
2	Tl 190.801†	1670.4	1702.8	[500]	ug/L	11:59:40
2	U 409.014†	15174.0	17187.3	[500]	ug/L	11:59:20
2	V 292.402†	73842.4	74921.5	[500]	ug/L	11:59:20
2	Zn 213.857†	55968.4	54735.4	[500]	ug/L	11:59:20
2	SiO2†	81838.7	81034.2	[5347.5]	ug/L	12:00:22
3	Sc Radial	5153.2	5153.2	97.0	%	11:58:17
3	Y RADIAL	5456.3	5456.3	96.19	%	11:58:17
3	Al 396.153Radial†	6586.9	6804.4	[5000]	ug/L	11:58:17
3	Ca 317.933Radial†	3272.4	3350.6	[5000]	ug/L	11:58:37
3	K 766.490 Radial†	29538.8	27790.7	[5000]	ug/L	11:58:17
3	Mg 279.077 IEC†	168.5	170.4	[5000]	ug/L	11:58:37
3	Sr 421.552†	78479.1	80856.0	[500]	ug/L	11:58:17
3	Sc 361.383	870550.6	870550.6	99.802	%	11:59:46
3	Y 371.029	719702.7	719702.7	98.120	%	11:59:46
3	Ag 328.068†	110856.5	110696.9	[500]	ug/L	11:59:51
3	As 188.979†	1196.1	1221.9	[500]	ug/L	12:00:11
3	B 249.677†	21527.7	22207.1	[500]	ug/L	11:59:51
3	Ba 233.527†	65018.6	65156.3	[500]	ug/L	11:59:51
3	Be 313.107†	1373444.7	1380491.7	[500]	ug/L	11:59:46
3	Cd 226.502†	46183.1	46477.3	[500]	ug/L	11:59:51
3	Co 228.616†	24869.6	24997.3	[500]	ug/L	11:59:51
3	Cr 267.716†	45900.5	45918.3	[500]	ug/L	11:59:51
3	Cu 324.752†	173242.3	167039.7	[500]	ug/L	11:59:51
3	Mn 257.610†	464739.2	465180.0	[500]	ug/L	11:59:46
3	Mo 202.031†	7374.7	7368.8	[500]	ug/L	12:00:11
3	Ni 231.604†	20761.3	20708.3	[500]	ug/L	11:59:51
3	P 214.914†	4510.2	4307.6	[2500]	ug/L	12:00:11
3	Pb 220.353†	4198.9	4274.6	[500]	ug/L	12:00:11
3	S 181.975 Axial†	795.8	752.9	[1000]	ug/L	12:00:11
3	Sb 206.836†	1528.8	1502.6	[500]	ug/L	12:00:11
3	Se 196.026†	794.6	820.3	[500]	ug/L	12:00:11
3	Si 251.611†	80444.5	80160.5	[2500]	ug/L	11:59:51
3	Sn 189.927†	2967.6	2972.8	[500]	ug/L	12:00:11
3	Ti 334.940†	306842.1	308800.7	[500]	ug/L	11:59:51
3	Tl 190.801†	1663.7	1706.4	[500]	ug/L	12:00:11
3	U 409.014†	15037.5	17144.7	[500]	ug/L	11:59:51
3	V 292.402†	73044.3	74580.0	[500]	ug/L	11:59:51
3	Zn 213.857†	55321.3	54434.2	[500]	ug/L	11:59:51
3	SiO2†	80430.0	80130.5	[5347.5]	ug/L	12:00:27

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	872744.6	2856.69	0.33%	100.05	%
Sc Radial	5214.6	61.73	1.18%	98.2	%
Y 371.029	721938.7	3225.61	0.45%	98.425	%
Y RADIAL	5506.0	56.27	1.02%	97.07	%
Ag 328.068†	110933.6	291.50	0.26%	[500]	ug/L
Al 396.153Radial†	6762.6	40.07	0.59%	[5000]	ug/L
As 188.979†	1220.7	1.18	0.10%	[500]	ug/L
B 249.677†	22313.1	108.73	0.49%	[500]	ug/L
Ba 233.527†	65262.7	131.57	0.20%	[500]	ug/L
Be 313.107†	1380923.6	722.35	0.05%	[500]	ug/L
Ca 317.933Radial†	3323.8	35.01	1.05%	[5000]	ug/L
Cd 226.502†	46480.4	110.16	0.24%	[500]	ug/L
Co 228.616†	25071.2	73.03	0.29%	[500]	ug/L
Cr 267.716†	45887.1	74.22	0.16%	[500]	ug/L
Cu 324.752†	167953.9	816.97	0.49%	[500]	ug/L
K 766.490 Radial†	27612.0	186.04	0.67%	[5000]	ug/L
Mg 279.077 IEC†	169.5	1.28	0.76%	[5000]	ug/L
Mn 257.610†	464568.0	655.70	0.14%	[500]	ug/L
Mo 202.031†	7338.7	26.53	0.36%	[500]	ug/L
Ni 231.604†	20686.2	37.27	0.18%	[500]	ug/L
P 214.914†	4288.2	17.14	0.40%	[2500]	ug/L
Pb 220.353†	4256.3	16.23	0.38%	[500]	ug/L
S 181.975 Axial†	746.9	5.22	0.70%	[1000]	ug/L

Sb 206.836†	1500.3	6.77	0.45%	[500]	ug/L
Se 196.026†	820.5	1.59	0.19%	[500]	ug/L
Si 251.611†	80410.1	257.30	0.32%	[2500]	ug/L
Sn 189.927†	2961.6	9.86	0.33%	[500]	ug/L
Sr 421.552†	80581.1	380.50	0.47%	[500]	ug/L
Ti 334.940†	309806.0	950.23	0.31%	[500]	ug/L
Tl 190.801†	1705.1	1.97	0.12%	[500]	ug/L
U 409.014†	17172.8	24.39	0.14%	[500]	ug/L
V 292.402†	74743.4	171.25	0.23%	[500]	ug/L
Zn 213.857†	54536.4	172.32	0.32%	[500]	ug/L
SiO2†	80991.8	840.90	1.04%	[5347.5]	ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 1/13/2010 12:02:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	5171.9	5171.9	97.4 %		12:04:30
1	Y RADIAL	5441.9	5441.9	95.94 %		12:04:30
1	Al 396.153Radial†	13108.3	13475.9	[10000] ug/L		12:04:30
1	Ca 317.933Radial†	6490.9	6643.1	[10000] ug/L		12:04:30
1	Fe 238.204 Radial†	1206.7	1228.8	[10000] ug/L		12:04:50
1	K 766.490 Radial†	56282.8	55140.5	[10000] ug/L		12:04:30
1	Mg 279.077 IEC†	328.5	334.1	[10000] ug/L		12:04:50
1	Na 589.592 Radial†	31307.9	33762.8	[10000] ug/L		12:04:30
1	Sr 421.552†	153449.0	157540.3	[1000] ug/L		12:04:30
1	Sc 361.383	855595.8	855595.8	98.088 %		12:05:54
1	Y 371.029	709257.0	709257.0	96.696 %		12:05:54
1	Ag 328.068†	221467.7	225406.1	[1000] ug/L		12:05:54
1	As 188.979†	2387.0	2456.9	[1000] ug/L		12:06:14
1	B 249.677†	44626.0	46132.7	[1000] ug/L		12:05:54
1	Ba 233.527†	130771.4	133329.7	[1000] ug/L		12:05:54
1	Be 313.107†	2732256.5	2789848.3	[1000] ug/L		12:05:48
1	Cd 226.502†	92515.9	94522.2	[1000] ug/L		12:05:54
1	Co 228.616†	49989.1	51042.1	[1000] ug/L		12:05:54
1	Cr 267.716†	92149.5	93872.9	[1000] ug/L		12:05:54
1	Cu 324.752†	347356.7	347582.7	[1000] ug/L		12:05:54
1	Mn 257.610†	917295.3	934698.3	[1000] ug/L		12:05:48
1	Mo 202.031†	14455.2	14716.5	[1000] ug/L		12:06:14
1	Ni 231.604†	41399.1	42112.0	[1000] ug/L		12:05:54
1	P 214.914†	8677.0	8634.7	[5000] ug/L		12:06:14
1	Pb 220.353†	8273.6	8502.2	[1000] ug/L		12:06:14
1	S 181.975 Axial†	1505.8	1490.6	[2000] ug/L		12:06:14
1	Sb 206.836†	2982.6	3011.6	[1000] ug/L		12:06:14
1	Se 196.026†	1570.0	1624.7	[1000] ug/L		12:06:14
1	Si 251.611†	161188.8	163887.9	[5000] ug/L		12:05:54
1	Sn 189.927†	5816.8	5929.5	[1000] ug/L		12:06:14
1	Ti 334.940†	626820.7	640391.4	[1000] ug/L		12:05:48
1	Tl 190.801†	3304.4	3408.3	[1000] ug/L		12:06:14
1	U 409.014†	32657.5	35371.6	[1000] ug/L		12:05:54
1	V 292.402†	149497.1	153802.6	[1000] ug/L		12:05:54
1	Zn 213.857†	109650.6	110791.6	[1000] ug/L		12:05:54
1	SiO2†	160774.9	163450.4	[10695] ug/L		12:07:23
2	Sc Radial	5216.8	5216.8	98.2 %		12:04:55
2	Y RADIAL	5480.4	5480.4	96.62 %		12:04:55
2	Al 396.153Radial†	13184.1	13437.2	[10000] ug/L		12:04:55
2	Ca 317.933Radial†	6538.0	6633.7	[10000] ug/L		12:04:55
2	Fe 238.204 Radial†	1221.2	1233.0	[10000] ug/L		12:05:15
2	K 766.490 Radial†	56559.5	54925.2	[10000] ug/L		12:04:55
2	Mg 279.077 IEC†	327.2	329.9	[10000] ug/L		12:05:15
2	Na 589.592 Radial†	31583.3	33766.6	[10000] ug/L		12:04:55
2	Sr 421.552†	154407.2	157160.4	[1000] ug/L		12:04:55
2	Sc 361.383	845815.4	845815.4	96.966 %		12:06:26
2	Y 371.029	701338.5	701338.5	95.617 %		12:06:26
2	Ag 328.068†	218980.3	225451.8	[1000] ug/L		12:06:26
2	As 188.979†	2375.5	2473.2	[1000] ug/L		12:06:46
2	B 249.677†	44165.7	46184.1	[1000] ug/L		12:06:26
2	Ba 233.527†	129590.6	133653.6	[1000] ug/L		12:06:26
2	Be 313.107†	2760305.4	2850984.5	[1000] ug/L		12:06:20
2	Cd 226.502†	91741.4	94814.1	[1000] ug/L		12:06:26
2	Co 228.616†	49590.5	51220.3	[1000] ug/L		12:06:26
2	Cr 267.716†	91267.6	94049.6	[1000] ug/L		12:06:26
2	Cu 324.752†	342439.5	346606.6	[1000] ug/L		12:06:26
2	Mn 257.610†	927465.2	956000.0	[1000] ug/L		12:06:20
2	Mo 202.031†	14465.0	14896.9	[1000] ug/L		12:06:46
2	Ni 231.604†	40894.1	42079.2	[1000] ug/L		12:06:26

2	P 214.914†	8701.7	8762.4	[5000]	ug/L	12:06:46
2	Pb 220.353†	8307.8	8635.0	[1000]	ug/L	12:06:46
2	S 181.975 Axial†	1513.2	1516.0	[2000]	ug/L	12:06:46
2	Sb 206.836†	2978.7	3042.7	[1000]	ug/L	12:06:46
2	Se 196.026†	1584.0	1657.6	[1000]	ug/L	12:06:46
2	Si 251.611†	159403.0	163946.4	[5000]	ug/L	12:06:26
2	Sn 189.927†	5810.8	5991.9	[1000]	ug/L	12:06:46
2	Ti 334.940†	633660.6	654834.7	[1000]	ug/L	12:06:20
2	Tl 190.801†	3312.8	3455.9	[1000]	ug/L	12:06:46
2	U 409.014†	32276.0	35363.1	[1000]	ug/L	12:06:26
2	V 292.402†	147927.5	153946.3	[1000]	ug/L	12:06:26
2	Zn 213.857†	108674.8	111077.9	[1000]	ug/L	12:06:26
2	SiO2†	158741.5	163248.8	[10695]	ug/L	12:07:28
3	Sc Radial	5230.3	5230.3	98.5	%	12:05:21
3	Y RADIAL	5523.3	5523.3	97.37	%	12:05:21
3	Al 396.153Radial†	13316.7	13537.2	[10000]	ug/L	12:05:21
3	Ca 317.933Radial†	6590.9	6670.2	[10000]	ug/L	12:05:21
3	Fe 238.204 Radial†	1203.8	1212.1	[10000]	ug/L	12:05:41
3	K 766.490 Radial†	57249.2	55476.3	[10000]	ug/L	12:05:21
3	Mg 279.077 IEC†	323.2	324.9	[10000]	ug/L	12:05:41
3	Na 589.592 Radial†	31761.5	33864.3	[10000]	ug/L	12:05:21
3	Sr 421.552†	155696.4	158062.3	[1000]	ug/L	12:05:21
3	Sc 361.383	844344.4	844344.4	96.798	%	12:06:58
3	Y 371.029	699187.7	699187.7	95.324	%	12:06:58
3	Ag 328.068†	218707.1	225562.9	[1000]	ug/L	12:06:58
3	As 188.979†	2372.4	2474.3	[1000]	ug/L	12:07:18
3	B 249.677†	44171.0	46269.0	[1000]	ug/L	12:06:58
3	Ba 233.527†	129396.0	133685.3	[1000]	ug/L	12:06:58
3	Be 313.107†	2751904.7	2847265.2	[1000]	ug/L	12:06:52
3	Cd 226.502†	91771.4	95009.9	[1000]	ug/L	12:06:58
3	Co 228.616†	49573.6	51292.0	[1000]	ug/L	12:06:58
3	Cr 267.716†	91187.3	94130.7	[1000]	ug/L	12:06:58
3	Cu 324.752†	341918.0	346683.0	[1000]	ug/L	12:06:58
3	Mn 257.610†	925797.3	955943.3	[1000]	ug/L	12:06:52
3	Mo 202.031†	14464.6	14922.5	[1000]	ug/L	12:07:18
3	Ni 231.604†	41028.2	42291.2	[1000]	ug/L	12:06:58
3	P 214.914†	8671.1	8746.4	[5000]	ug/L	12:07:18
3	Pb 220.353†	8280.6	8621.9	[1000]	ug/L	12:07:18
3	S 181.975 Axial†	1494.8	1499.7	[2000]	ug/L	12:07:18
3	Sb 206.836†	2970.6	3039.6	[1000]	ug/L	12:07:18
3	Se 196.026†	1576.4	1652.7	[1000]	ug/L	12:07:18
3	Si 251.611†	159178.1	164000.4	[5000]	ug/L	12:06:58
3	Sn 189.927†	5803.4	5994.7	[1000]	ug/L	12:07:18
3	Ti 334.940†	633223.8	655521.9	[1000]	ug/L	12:06:52
3	Tl 190.801†	3302.8	3451.6	[1000]	ug/L	12:07:18
3	U 409.014†	32318.1	35464.6	[1000]	ug/L	12:06:58
3	V 292.402†	147679.4	153955.7	[1000]	ug/L	12:06:58
3	Zn 213.857†	108573.6	111168.6	[1000]	ug/L	12:06:58
3	SiO2†	159649.1	164471.5	[10695]	ug/L	12:07:34

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	848585.2	6115.73	0.72%	97.284 %
Sc Radial	5206.4	30.58	0.59%	98.0 %
Y 371.029	703261.1	5302.83	0.75%	95.879 %
Y RADIAL	5481.9	40.71	0.74%	96.64 %
Ag 328.068†	225473.6	80.65	0.04%	[1000] ug/L
Al 396.153Radial†	13483.4	50.41	0.37%	[10000] ug/L
As 188.979†	2468.1	9.74	0.39%	[1000] ug/L
B 249.677†	46195.3	68.79	0.15%	[1000] ug/L
Ba 233.527†	133556.2	196.78	0.15%	[1000] ug/L
Be 313.107†	2829366.0	34273.83	1.21%	[1000] ug/L
Ca 317.933Radial†	6649.0	18.94	0.28%	[10000] ug/L
Cd 226.502†	94782.1	245.45	0.26%	[1000] ug/L
Co 228.616†	51184.8	128.69	0.25%	[1000] ug/L
Cr 267.716†	94017.7	131.84	0.14%	[1000] ug/L
Cu 324.752†	346957.4	542.84	0.16%	[1000] ug/L
Fe 238.204 Radial†	1224.6	11.07	0.90%	[10000] ug/L
K 766.490 Radial†	55180.7	277.76	0.50%	[10000] ug/L

Mg 279.077 IEC†	329.6	4.58	1.39%	[10000]	ug/L
Mn 257.610†	948880.5	12282.23	1.29%	[1000]	ug/L
Mo 202.031†	14845.3	112.29	0.76%	[1000]	ug/L
Na 589.592 Radial†	33797.9	57.53	0.17%	[10000]	ug/L
Ni 231.604†	42160.8	114.12	0.27%	[1000]	ug/L
P 214.914†	8714.5	69.61	0.80%	[5000]	ug/L
Pb 220.353†	8586.4	73.16	0.85%	[1000]	ug/L
S 181.975 Axial†	1502.1	12.89	0.86%	[2000]	ug/L
Sb 206.836†	3031.3	17.14	0.57%	[1000]	ug/L
Se 196.026†	1645.0	17.74	1.08%	[1000]	ug/L
Si 251.611†	163944.9	56.27	0.03%	[5000]	ug/L
Sn 189.927†	5972.0	36.87	0.62%	[1000]	ug/L
Sr 421.552†	157587.6	452.81	0.29%	[1000]	ug/L
Ti 334.940†	650249.4	8544.14	1.31%	[1000]	ug/L
Tl 190.801†	3438.6	26.34	0.77%	[1000]	ug/L
U 409.014†	35399.8	56.31	0.16%	[1000]	ug/L
V 292.402†	153901.5	85.78	0.06%	[1000]	ug/L
Zn 213.857†	111012.7	196.82	0.18%	[1000]	ug/L
SiO2†	163723.6	655.54	0.40%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 1/13/2010 12:09:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	4987.4	4987.4	93.9 %		12:11:58
1	Y RADIAL	5249.3	5249.3	92.54 %		12:11:58
1	Al 396.153Radial†	65279.1	69522.7	[50000] ug/L		12:11:38
1	Ca 317.933Radial†	31311.6	33317.5	[50000] ug/L		12:11:38
1	Fe 238.204 Radial†	2289.2	2427.2	[20000] ug/L		12:11:58
1	Mg 279.077 IEC†	1508.7	1603.2	[50000] ug/L		12:11:58
1	Na 589.592 Radial†	64154.2	69925.2	[20000] ug/L		12:11:38
1	Sc 361.383	844943.7	844943.7	96.867 %		12:12:55
1	Y 371.029	694814.8	694814.8	94.727 %		12:12:55
2	Sc Radial	5077.3	5077.3	95.6 %		12:12:23
2	Y RADIAL	5350.0	5350.0	94.32 %		12:12:23
2	Al 396.153Radial†	65696.7	68729.6	[50000] ug/L		12:12:03
2	Ca 317.933Radial†	31471.1	32894.4	[50000] ug/L		12:12:03
2	Fe 238.204 Radial†	2332.1	2429.0	[20000] ug/L		12:12:23
2	Mg 279.077 IEC†	1532.2	1599.4	[50000] ug/L		12:12:23
2	Na 589.592 Radial†	64396.0	68969.4	[20000] ug/L		12:12:03
2	Sc 361.383	834855.9	834855.9	95.710 %		12:13:01
2	Y 371.029	686934.3	686934.3	93.653 %		12:13:01
3	Sc Radial	5033.1	5033.1	94.8 %		12:12:48
3	Y RADIAL	5297.2	5297.2	93.39 %		12:12:48
3	Al 396.153Radial†	64099.4	67647.3	[50000] ug/L		12:12:28
3	Ca 317.933Radial†	30764.2	32437.5	[50000] ug/L		12:12:28
3	Fe 238.204 Radial†	2288.3	2404.2	[20000] ug/L		12:12:48
3	Mg 279.077 IEC†	1507.2	1587.0	[50000] ug/L		12:12:48
3	Na 589.592 Radial†	62696.9	67767.9	[20000] ug/L		12:12:28
3	Sc 361.383	839736.7	839736.7	96.270 %		12:13:07
3	Y 371.029	691027.0	691027.0	94.211 %		12:13:07

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	839845.4	5044.77	0.60%	96.282 %	
Sc Radial	5032.6	44.92	0.89%	94.8 %	
Y 371.029	690925.4	3941.22	0.57%	94.197 %	
Y RADIAL	5298.8	50.37	0.95%	93.41 %	
Al 396.153Radial†	68633.2	941.39	1.37%	[50000] ug/L	
Ca 317.933Radial†	32883.1	440.13	1.34%	[50000] ug/L	
Fe 238.204 Radial†	2420.1	13.83	0.57%	[20000] ug/L	
Mg 279.077 IEC†	1596.5	8.45	0.53%	[50000] ug/L	
Na 589.592 Radial†	68887.5	1080.99	1.57%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	224.8	0.00000	0.999979	
Al 396.153Radial 3	3	Lin Thru 0	0.0	1.372	0.00000	0.999993	
As 188.979	3	Lin Thru 0	0.0	2.463	0.00000	0.999991	
B 249.677	3	Lin Thru 0	0.0	45.87	0.00000	0.999902	
Ba 233.527	3	Lin Thru 0	0.0	133.0	0.00000	0.999957	
Be 313.107	3	Lin Thru 0	0.0	2816	0.00000	0.999954	
Ca 317.933Radial 3	3	Lin Thru 0	0.0	0.6580	0.00000	0.999997	
Cd 226.502	3	Lin Thru 0	0.0	94.43	0.00000	0.999970	
Co 228.616	3	Lin Thru 0	0.0	50.97	0.00000	0.999966	
Cr 267.716	3	Lin Thru 0	0.0	93.58	0.00000	0.999953	
Cu 324.752	3	Lin Thru 0	0.0	344.8	0.00000	0.999918	
Fe 238.204 Radia 2	2	Lin Thru 0	0.0	0.1213	0.00000	0.999988	
K 766.490 Radial 3	3	Lin Thru 0	0.0	5.521	0.00000	0.999995	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0320	0.00000	0.999964
Mn 257.610	3	Lin Thru 0	0.0	945.1	0.00000	0.999964
Mo 202.031	3	Lin Thru 0	0.0	14.81	0.00000	0.999990
Na 589.592 Radia	2	Lin Thru 0	0.0	3.431	0.00000	0.999972
Ni 231.604	3	Lin Thru 0	0.0	42.01	0.00000	0.999970
P 214.914	3	Lin Thru 0	0.0	1.737	0.00000	0.999979
Pb 220.353	3	Lin Thru 0	0.0	8.573	0.00000	0.999992
S 181.975 Axial	3	Lin Thru 0	0.0	0.7501	0.00000	0.999995
Sb 206.836	3	Lin Thru 0	0.0	3.025	0.00000	0.999992
Se 196.026	3	Lin Thru 0	0.0	1.643	0.00000	0.999986
Si 251.611	3	Lin Thru 0	0.0	32.66	0.00000	0.999971
Sn 189.927	3	Lin Thru 0	0.0	5.962	0.00000	0.999995
Sr 421.552	3	Lin Thru 0	0.0	158.3	0.00000	0.999959
Ti 334.940	3	Lin Thru 0	0.0	644.1	0.00000	0.999820
Tl 190.801	3	Lin Thru 0	0.0	3.433	0.00000	0.999993
U 409.014	3	Lin Thru 0	0.0	35.19	0.00000	0.999928
V 292.402	3	Lin Thru 0	0.0	153.0	0.00000	0.999934
Zn 213.857	3	Lin Thru 0	0.0	110.6	0.00000	0.999975
SiO2	3	Lin Thru 0	0.0	15.27	0.00000	0.999991

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 1/13/2010 12:15:18

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	5253.8	5253.8	98.9 %		12:17:11
1	Y RADIAL	5554.0	5554.0	97.91 %		12:17:11
1	Al 396.153Radial†	6949.5	7041.1	5107.1 ug/L	5107.1 ppb	12:17:11
1	Ca 317.933Radial†	3337.5	3351.9	5094.1 ug/L	5094.1 ppb	12:17:31
1	Fe 238.204 Radial†	647.6	644.4	5328.3 ug/L	5328.3 ppb	12:17:31
1	K 766.490 Radial†	16606.4	14136.7	2557.1 ug/L	2557.1 ppb	12:17:11
1	Mg 279.077 IEC†	177.3	176.0	5502.4 ug/L	5502.4 ppb	12:17:31
1	Na 589.592 Radial†	7397.5	9094.1	2650.2 ug/L	2650.2 ppb	12:17:11
1	Sr 421.552†	85556.7	86462.6	546.16 ug/L	546.16 ppb	12:17:11
1	Sc 361.383	863908.4	863908.4	99.041 %		12:18:28
1	Y 371.029	717539.0	717539.0	97.825 %		12:18:28
1	Ag 328.068†	57867.0	58048.2	261.58 ug/L	261.58 ppb	12:18:28
1	As 188.979†	1162.2	1196.9	490.27 ug/L	490.27 ppb	12:18:48
1	B 249.677†	23037.6	23897.5	518.67 ug/L	518.67 ppb	12:18:28
1	Ba 233.527†	68279.5	68949.7	519.81 ug/L	519.81 ppb	12:18:28
1	Be 313.107†	720385.3	731687.5	260.99 ug/L	260.99 ppb	12:18:28
1	Cd 226.502†	47645.2	48309.3	511.47 ug/L	511.47 ppb	12:18:28
1	Co 228.616†	25920.0	26249.5	515.17 ug/L	515.17 ppb	12:18:48
1	Cr 267.716†	46065.8	46438.8	496.88 ug/L	496.88 ppb	12:18:28
1	Cu 324.752†	182408.4	177629.2	515.22 ug/L	515.22 ppb	12:18:28
1	Mn 257.610†	483522.1	487725.1	516.37 ug/L	516.37 ppb	12:18:28
1	Mo 202.031†	8074.4	8132.0	549.51 ug/L	549.51 ppb	12:18:48
1	Ni 231.604†	21229.1	21340.5	507.68 ug/L	507.68 ppb	12:18:48
1	P 214.914†	4653.7	4487.3	2482.9 ug/L	2482.9 ppb	12:18:48
1	Pb 220.353†	4307.6	4416.7	516.93 ug/L	516.93 ppb	12:18:48
1	S 181.975 Axial†	1949.7	1924.1	2564.2 ug/L	2564.2 ppb	12:18:48
1	Sb 206.836†	1563.1	1549.0	532.04 ug/L	532.04 ppb	12:18:48
1	Se 196.026†	4341.8	4408.0	2701.4 ug/L	2701.4 ppb	12:18:48
1	Si 251.611†	158850.7	159945.9	4890.2 ug/L	4890.2 ppb	12:18:28
1	Sn 189.927†	3255.8	3286.5	552.09 ug/L	552.09 ppb	12:18:48
1	Ti 334.940†	320352.8	324806.1	504.11 ug/L	504.11 ppb	12:18:28
1	Tl 190.801†	1787.6	1844.4	540.62 ug/L	540.62 ppb	12:18:48
1	U 409.014†	15085.2	17308.7	490.13 ug/L	490.13 ppb	12:18:28
1	V 292.402†	76062.5	78190.2	518.32 ug/L	518.32 ppb	12:18:28
1	Zn 213.857†	58392.1	57961.0	519.56 ug/L	519.56 ppb	12:18:28
1	SiO2†	158437.9	159513.6	10428 ug/L	10428 ppb	12:19:46
2	Sc Radial	5229.9	5229.9	98.5 %		12:17:36
2	Y RADIAL	5517.2	5517.2	97.26 %		12:17:36
2	Al 396.153Radial†	6899.5	7022.3	5093.9 ug/L	5093.9 ppb	12:17:36
2	Ca 317.933Radial†	3311.8	3341.1	5077.7 ug/L	5077.7 ppb	12:17:56
2	Fe 238.204 Radial†	644.0	643.7	5322.0 ug/L	5322.0 ppb	12:17:56
2	K 766.490 Radial†	16577.3	14183.6	2565.7 ug/L	2565.7 ppb	12:17:36
2	Mg 279.077 IEC†	169.6	169.0	5282.9 ug/L	5282.9 ppb	12:17:56
2	Na 589.592 Radial†	7237.9	8966.1	2612.9 ug/L	2612.9 ppb	12:17:36
2	Sr 421.552†	85037.7	86329.4	545.32 ug/L	545.32 ppb	12:17:36
2	Sc 361.383	876629.6	876629.6	100.50 %		12:18:54
2	Y 371.029	727551.7	727551.7	99.191 %		12:18:54
2	Ag 328.068†	57938.6	57271.6	258.10 ug/L	258.10 ppb	12:18:54
2	As 188.979†	1158.8	1176.4	481.96 ug/L	481.96 ppb	12:19:14
2	B 249.677†	23302.9	23823.9	517.09 ug/L	517.09 ppb	12:18:54
2	Ba 233.527†	68634.0	68302.0	514.93 ug/L	514.93 ppb	12:18:54
2	Be 313.107†	722941.5	723675.9	258.14 ug/L	258.14 ppb	12:18:54
2	Cd 226.502†	47791.9	47757.2	505.61 ug/L	505.61 ppb	12:18:54
2	Co 228.616†	25763.6	25714.1	504.65 ug/L	504.65 ppb	12:19:14
2	Cr 267.716†	46205.9	45903.2	491.15 ug/L	491.15 ppb	12:18:54
2	Cu 324.752†	183166.9	175711.3	509.66 ug/L	509.66 ppb	12:18:54
2	Mn 257.610†	486196.0	483301.2	511.69 ug/L	511.69 ppb	12:18:54
2	Mo 202.031†	8045.1	7984.5	539.56 ug/L	539.56 ppb	12:19:14
2	Ni 231.604†	21097.4	20898.4	497.16 ug/L	497.16 ppb	12:19:14

2	P 214.914†	4620.0	4385.6	2425.4 ug/L	2425.4 ppb	12:19:14
2	Pb 220.353†	4269.7	4315.9	505.15 ug/L	505.15 ppb	12:19:14
2	S 181.975 Axial†	1931.4	1877.3	2501.8 ug/L	2501.8 ppb	12:19:14
2	Sb 206.836†	1565.0	1528.0	524.71 ug/L	524.71 ppb	12:19:14
2	Se 196.026†	4342.9	4345.4	2663.3 ug/L	2663.3 ppb	12:19:14
2	Si 251.611†	159609.1	158373.1	4842.1 ug/L	4842.1 ppb	12:18:54
2	Sn 189.927†	3244.8	3227.9	542.25 ug/L	542.25 ppb	12:19:14
2	Ti 334.940†	322000.1	321751.4	499.38 ug/L	499.38 ppb	12:18:54
2	Tl 190.801†	1786.7	1817.3	532.72 ug/L	532.72 ppb	12:19:14
2	U 409.014†	15206.3	17208.2	487.28 ug/L	487.28 ppb	12:18:54
2	V 292.402†	76329.5	77341.3	512.63 ug/L	512.63 ppb	12:18:54
2	Zn 213.857†	58650.2	57362.2	514.22 ug/L	514.22 ppb	12:18:54
2	SiO2†	159020.0	157771.4	10314 ug/L	10314 ppb	12:19:51
3	Sc Radial	5204.3	5204.3	98.0 %		12:18:01
3	Y RADIAL	5567.2	5567.2	98.15 %		12:18:01
3	Al 396.153Radial†	6883.3	7040.3	5106.7 ug/L	5106.7 ppb	12:18:01
3	Ca 317.933Radial†	3312.4	3358.3	5103.8 ug/L	5103.8 ppb	12:18:21
3	Fe 238.204 Radial†	644.0	646.9	5348.6 ug/L	5348.6 ppb	12:18:21
3	K 766.490 Radial†	16517.0	14205.0	2569.5 ug/L	2569.5 ppb	12:18:01
3	Mg 279.077 IEC†	175.7	176.1	5504.7 ug/L	5504.7 ppb	12:18:21
3	Na 589.592 Radial†	7290.8	9056.4	2639.2 ug/L	2639.2 ppb	12:18:01
3	Sr 421.552†	85344.0	87067.6	549.98 ug/L	549.98 ppb	12:18:01
3	Sc 361.383	866589.5	866589.5	99.348 %		12:19:20
3	Y 371.029	719713.6	719713.6	98.122 %		12:19:20
3	Ag 328.068†	57678.5	57677.7	259.92 ug/L	259.92 ppb	12:19:20
3	As 188.979†	1151.2	1182.2	484.30 ug/L	484.30 ppb	12:19:41
3	B 249.677†	23115.9	23904.4	518.82 ug/L	518.82 ppb	12:19:20
3	Ba 233.527†	68344.8	68802.1	518.70 ug/L	518.70 ppb	12:19:20
3	Be 313.107†	719903.8	728952.4	260.02 ug/L	260.02 ppb	12:19:20
3	Cd 226.502†	47472.4	47986.5	508.04 ug/L	508.04 ppb	12:19:20
3	Co 228.616†	25797.7	26045.4	511.16 ug/L	511.16 ppb	12:19:41
3	Cr 267.716†	46058.0	46287.0	495.25 ug/L	495.25 ppb	12:19:20
3	Cu 324.752†	182403.7	177054.6	513.56 ug/L	513.56 ppb	12:19:20
3	Mn 257.610†	483781.3	486475.6	515.04 ug/L	515.04 ppb	12:19:20
3	Mo 202.031†	8041.3	8073.5	545.57 ug/L	545.57 ppb	12:19:41
3	Ni 231.604†	21096.3	21140.5	502.92 ug/L	502.92 ppb	12:19:41
3	P 214.914†	4619.2	4438.0	2454.8 ug/L	2454.8 ppb	12:19:41
3	Pb 220.353†	4297.7	4393.2	514.18 ug/L	514.18 ppb	12:19:41
3	S 181.975 Axial†	1935.0	1903.1	2536.3 ug/L	2536.3 ppb	12:19:41
3	Sb 206.836†	1540.9	1521.8	522.90 ug/L	522.90 ppb	12:19:41
3	Se 196.026†	4325.8	4378.3	2683.5 ug/L	2683.5 ppb	12:19:41
3	Si 251.611†	158714.9	159313.0	4870.8 ug/L	4870.8 ppb	12:19:20
3	Sn 189.927†	3248.2	3268.7	549.10 ug/L	549.10 ppb	12:19:41
3	Ti 334.940†	320492.2	323945.8	502.77 ug/L	502.77 ppb	12:19:20
3	Tl 190.801†	1796.8	1848.1	541.69 ug/L	541.69 ppb	12:19:41
3	U 409.014†	15253.7	17431.2	493.61 ug/L	493.61 ppb	12:19:20
3	V 292.402†	76027.9	77917.7	516.49 ug/L	516.49 ppb	12:19:20
3	Zn 213.857†	58268.0	57653.6	516.81 ug/L	516.81 ppb	12:19:20
3	SiO2†	158914.5	159498.4	10427 ug/L	10427 ppb	12:19:57

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869042.5	99.629 %	0.7688			0.77%
Sc Radial	5229.3	98.5 %	0.47			0.47%
Y 371.029	721601.4	98.379 %	0.7180			0.73%
Y RADIAL	5546.1	97.77 %	0.457			0.47%
Ag 328.068†	57665.8	259.87 ug/L	1.739	259.87 ppb	1.739	0.67%
QC value within limits for Ag 328.068 Recovery = 103.95%						
Al 396.153Radial†	7034.6	5102.5 ug/L	7.52	5102.5 ppb	7.52	0.15%
QC value within limits for Al 396.153Radial Recovery = 102.05%						
As 188.979†	1185.2	485.51 ug/L	4.282	485.51 ppb	4.282	0.88%
QC value within limits for As 188.979 Recovery = 97.10%						
B 249.677†	23875.3	518.19 ug/L	0.957	518.19 ppb	0.957	0.18%
QC value within limits for B 249.677 Recovery = 103.64%						
Ba 233.527†	68684.6	517.82 ug/L	2.559	517.82 ppb	2.559	0.49%
QC value within limits for Ba 233.527 Recovery = 103.56%						
Be 313.107†	728105.3	259.72 ug/L	1.452	259.72 ppb	1.452	0.56%
QC value within limits for Be 313.107 Recovery = 103.89%						
Ca 317.933Radial†	3350.5	5091.8 ug/L	13.20	5091.8 ppb	13.20	0.26%

QC value within limits for Ca 317.933 Radial Recovery = 101.84%							
Cd 226.502†	48017.7	508.37 ug/L	2.941	508.37 ppb	2.941	0.58%	
QC value within limits for Cd 226.502 Recovery = 101.67%							
Co 228.616†	26003.0	510.33 ug/L	5.308	510.33 ppb	5.308	1.04%	
QC value within limits for Co 228.616 Recovery = 102.07%							
Cr 267.716†	46209.7	494.42 ug/L	2.953	494.42 ppb	2.953	0.60%	
QC value within limits for Cr 267.716 Recovery = 98.88%							
Cu 324.752†	176798.4	512.81 ug/L	2.854	512.81 ppb	2.854	0.56%	
QC value within limits for Cu 324.752 Recovery = 102.56%							
Fe 238.204 Radial†	645.0	5332.9 ug/L	13.92	5332.9 ppb	13.92	0.26%	
QC value within limits for Fe 238.204 Radial Recovery = 106.66%							
K 766.490 Radial†	14175.1	2564.1 ug/L	6.34	2564.1 ppb	6.34	0.25%	
QC value within limits for K 766.490 Radial Recovery = 102.56%							
Mg 279.077 IEC†	173.7	5430.0 ug/L	127.41	5430.0 ppb	127.41	2.35%	
QC value within limits for Mg 279.077 IEC Recovery = 108.60%							
Mn 257.610†	485833.9	514.37 ug/L	2.409	514.37 ppb	2.409	0.47%	
QC value within limits for Mn 257.610 Recovery = 102.87%							
Mo 202.031†	8063.3	544.88 ug/L	5.014	544.88 ppb	5.014	0.92%	
QC value within limits for Mo 202.031 Recovery = 108.98%							
Na 589.592 Radial†	9038.9	2634.1 ug/L	19.17	2634.1 ppb	19.17	0.73%	
QC value within limits for Na 589.592 Radial Recovery = 105.36%							
Ni 231.604†	21126.5	502.59 ug/L	5.266	502.59 ppb	5.266	1.05%	
QC value within limits for Ni 231.604 Recovery = 100.52%							
P 214.914†	4437.0	2454.4 ug/L	28.78	2454.4 ppb	28.78	1.17%	
QC value within limits for P 214.914 Recovery = 98.18%							
Pb 220.353†	4375.3	512.09 ug/L	6.165	512.09 ppb	6.165	1.20%	
QC value within limits for Pb 220.353 Recovery = 102.42%							
S 181.975 Axial†	1901.5	2534.1 ug/L	31.28	2534.1 ppb	31.28	1.23%	
QC value within limits for S 181.975 Axial Recovery = 101.36%							
Sb 206.836†	1532.9	526.55 ug/L	4.837	526.55 ppb	4.837	0.92%	
QC value within limits for Sb 206.836 Recovery = 105.31%							
Se 196.026†	4377.2	2682.7 ug/L	19.06	2682.7 ppb	19.06	0.71%	
QC value within limits for Se 196.026 Recovery = 107.31%							
Si 251.611†	159210.6	4867.7 ug/L	24.17	4867.7 ppb	24.17	0.50%	
QC value within limits for Si 251.611 Recovery = 97.35%							
Sn 189.927†	3261.1	547.82 ug/L	5.041	547.82 ppb	5.041	0.92%	
QC value within limits for Sn 189.927 Recovery = 109.56%							
Sr 421.552†	86619.9	547.15 ug/L	2.485	547.15 ppb	2.485	0.45%	
QC value within limits for Sr 421.552 Recovery = 109.43%							
Ti 334.940†	323501.1	502.09 ug/L	2.435	502.09 ppb	2.435	0.48%	
QC value within limits for Ti 334.940 Recovery = 100.42%							
Tl 190.801†	1836.6	538.34 ug/L	4.901	538.34 ppb	4.901	0.91%	
QC value within limits for Tl 190.801 Recovery = 107.67%							
U 409.014†	17316.0	490.34 ug/L	3.169	490.34 ppb	3.169	0.65%	
QC value within limits for U 409.014 Recovery = 98.07%							
V 292.402†	77816.4	515.82 ug/L	2.905	515.82 ppb	2.905	0.56%	
QC value within limits for V 292.402 Recovery = 103.16%							
Zn 213.857†	57658.9	516.87 ug/L	2.670	516.87 ppb	2.670	0.52%	
QC value within limits for Zn 213.857 Recovery = 103.37%							
SiO2†	158927.8	10390 ug/L	65.4	10390 ppb	65.4	0.63%	
QC value within limits for SiO2 Recovery = 97.15%							
All analyte(s) passed QC.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 1/13/2010 12:22:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5273.1	5273.1	99.3 %			12:24:01
1	Y RADIAL	5597.9	5597.9	98.69 %			12:24:01
1	Al 396.153Radial†	-3.7	13.0	9.4573 ug/L		9.4573 ppb	12:24:01
1	Ca 317.933Radial†	13.6	-7.9	-11.975 ug/L		-11.975 ppb	12:24:21
1	Fe 238.204 Radial†	8.6	-1.6	-12.822 ug/L		-12.822 ppb	12:24:21
1	K 766.490 Radial†	2585.5	-44.9	-8.1355 ug/L		-8.1355 ppb	12:24:01
1	Mg 279.077 IEC†	2.1	-1.1	-34.780 ug/L		-34.780 ppb	12:24:21
1	Na 589.592 Radial†	-1538.1	68.0	19.822 ug/L		19.822 ppb	12:24:01
1	Sr 421.552†	-4.0	-19.8	-0.1247 ug/L		-0.1247 ppb	12:24:01
1	Sc 361.383	857382.9	857382.9	98.293 %			12:25:17
1	Y 371.029	720847.0	720847.0	98.276 %			12:25:17
1	Ag 328.068†	369.2	-3.6	-0.0201 ug/L		-0.0201 ppb	12:25:17
1	As 188.979†	-27.5	-4.5	-1.8414 ug/L		-1.8414 ppb	12:25:38
1	B 249.677†	-294.6	337.0	7.3495 ug/L		7.3495 ppb	12:25:38
1	Ba 233.527†	-0.1	8.7	0.0643 ug/L		0.0643 ppb	12:25:38
1	Be 313.107†	-4277.1	-27.0	-0.0100 ug/L		-0.0100 ppb	12:25:17
1	Cd 226.502†	-171.8	27.9	0.2962 ug/L		0.2962 ppb	12:25:38
1	Co 228.616†	-69.0	8.2	0.1631 ug/L		0.1631 ppb	12:25:38
1	Cr 267.716†	83.5	11.7	0.1252 ug/L		0.1252 ppb	12:25:38
1	Cu 324.752†	6458.0	24.2	0.0703 ug/L		0.0703 ppb	12:25:17
1	Mn 257.610†	425.7	-47.3	-0.0499 ug/L		-0.0499 ppb	12:25:38
1	Mo 202.031†	27.4	7.3	0.4931 ug/L		0.4931 ppb	12:25:38
1	Ni 231.604†	104.9	12.5	0.2967 ug/L		0.2967 ppb	12:25:38
1	P 214.914†	223.5	15.9	9.1567 ug/L		9.1567 ppb	12:25:38
1	Pb 220.353†	-57.4	8.9	1.0464 ug/L		1.0464 ppb	12:25:38
1	S 181.975 Axial†	46.4	2.7	3.5907 ug/L		3.5907 ppb	12:25:38
1	Sb 206.836†	37.0	8.4	2.8002 ug/L		2.8002 ppb	12:25:38
1	Se 196.026†	-27.5	-3.9	-2.3839 ug/L		-2.3839 ppb	12:25:38
1	Si 251.611†	445.2	9.5	0.2835 ug/L		0.2835 ppb	12:25:38
1	Sn 189.927†	5.9	5.2	0.8774 ug/L		0.8774 ppb	12:25:38
1	Ti 334.940†	-1435.2	-109.8	-0.1686 ug/L		-0.1686 ppb	12:25:17
1	Tl 190.801†	-39.2	-0.4	-0.1257 ug/L		-0.1257 ppb	12:25:38
1	U 409.014†	-2090.0	-48.9	-1.3874 ug/L		-1.3874 ppb	12:25:17
1	V 292.402†	-1408.9	-42.5	-0.2718 ug/L		-0.2718 ppb	12:25:17
1	Zn 213.857†	662.4	-322.8	-2.9189 ug/L		-2.9189 ppb	12:25:38
1	SiO2†	467.5	16.7	1.0800 ug/L		1.0800 ppb	12:26:33
2	Sc Radial	5173.9	5173.9	97.4 %			12:24:26
2	Y RADIAL	5519.7	5519.7	97.31 %			12:24:26
2	Al 396.153Radial†	-8.3	8.2	5.9885 ug/L		5.9885 ppb	12:24:26
2	Ca 317.933Radial†	16.2	-4.9	-7.4356 ug/L		-7.4356 ppb	12:24:46
2	Fe 238.204 Radial†	7.1	-2.9	-23.763 ug/L		-23.763 ppb	12:24:46
2	K 766.490 Radial†	2645.6	66.7	12.080 ug/L		12.080 ppb	12:24:26
2	Mg 279.077 IEC†	3.2	0.1	1.9096 ug/L		1.9096 ppb	12:24:46
2	Na 589.592 Radial†	-1533.5	43.1	12.552 ug/L		12.552 ppb	12:24:26
2	Sr 421.552†	26.3	11.3	0.0712 ug/L		0.0712 ppb	12:24:26
2	Sc 361.383	867968.0	867968.0	99.506 %			12:25:43
2	Y 371.029	728258.3	728258.3	99.287 %			12:25:43
2	Ag 328.068†	388.4	11.0	0.0417 ug/L		0.0417 ppb	12:25:43
2	As 188.979†	-23.2	0.1	0.0329 ug/L		0.0329 ppb	12:26:03
2	B 249.677†	-279.5	355.9	7.7618 ug/L		7.7618 ppb	12:26:03
2	Ba 233.527†	-6.3	2.5	0.0178 ug/L		0.0178 ppb	12:26:03
2	Be 313.107†	-4405.0	-102.4	-0.0361 ug/L		-0.0361 ppb	12:25:43
2	Cd 226.502†	-190.6	11.0	0.1192 ug/L		0.1192 ppb	12:26:03
2	Co 228.616†	-72.7	5.4	0.1061 ug/L		0.1061 ppb	12:26:03
2	Cr 267.716†	92.6	19.8	0.2115 ug/L		0.2115 ppb	12:26:03
2	Cu 324.752†	6571.6	58.3	0.1683 ug/L		0.1683 ppb	12:25:43
2	Mn 257.610†	418.4	-59.9	-0.0658 ug/L		-0.0658 ppb	12:26:03
2	Mo 202.031†	27.4	6.9	0.4671 ug/L		0.4671 ppb	12:26:03
2	Ni 231.604†	103.7	10.0	0.2379 ug/L		0.2379 ppb	12:26:03

2	P 214.914†	213.0	2.6	1.4834 ug/L	1.4834 ppb	12:26:03
2	Pb 220.353†	-78.5	-11.6	-1.3479 ug/L	-1.3479 ppb	12:26:03
2	S 181.975 Axial†	55.2	11.0	14.649 ug/L	14.649 ppb	12:26:03
2	Sb 206.836†	42.0	13.0	4.3141 ug/L	4.3141 ppb	12:26:03
2	Se 196.026†	-31.8	-7.9	-4.8611 ug/L	-4.8611 ppb	12:26:03
2	Si 251.611†	459.6	18.4	0.5589 ug/L	0.5589 ppb	12:26:03
2	Sn 189.927†	0.8	0.1	0.0069 ug/L	0.0069 ppb	12:26:03
2	Ti 334.940†	-1274.7	69.4	0.1069 ug/L	0.1069 ppb	12:25:43
2	Tl 190.801†	-29.2	10.2	2.9592 ug/L	2.9592 ppb	12:26:03
2	U 409.014†	-2101.8	-34.8	-0.9871 ug/L	-0.9871 ppb	12:25:43
2	V 292.402†	-1408.3	-24.4	-0.1512 ug/L	-0.1512 ppb	12:25:43
2	Zn 213.857†	667.6	-325.8	-2.9449 ug/L	-2.9449 ppb	12:26:03
2	SiO2†	494.1	37.6	2.4497 ug/L	2.4497 ppb	12:26:39
3	Sc Radial	5188.3	5188.3	97.7 %		12:24:51
3	Y RADIAL	5530.9	5530.9	97.51 %		12:24:51
3	Al 396.153Radial†	-18.1	-1.8	-1.3325 ug/L	-1.3325 ppb	12:24:51
3	Ca 317.933Radial†	13.6	-7.6	-11.560 ug/L	-11.560 ppb	12:25:11
3	Fe 238.204 Radial†	10.9	1.0	7.8535 ug/L	7.8535 ppb	12:25:11
3	K 766.490 Radial†	2665.7	79.8	14.466 ug/L	14.466 ppb	12:24:51
3	Mg 279.077 IEC†	2.4	-0.8	-25.148 ug/L	-25.148 ppb	12:25:11
3	Na 589.592 Radial†	-1598.0	-18.6	-5.4291 ug/L	-5.4291 ppb	12:24:51
3	Sr 421.552†	9.3	-6.2	-0.0393 ug/L	-0.0393 ppb	12:24:51
3	Sc 361.383	864175.6	864175.6	99.071 %		12:26:08
3	Y 371.029	728076.3	728076.3	99.262 %		12:26:08
3	Ag 328.068†	387.0	11.4	0.0507 ug/L	0.0507 ppb	12:26:08
3	As 188.979†	-26.8	-3.6	-1.4808 ug/L	-1.4808 ppb	12:26:28
3	B 249.677†	-280.2	354.0	7.7161 ug/L	7.7161 ppb	12:26:28
3	Ba 233.527†	-10.3	-1.6	-0.0127 ug/L	-0.0127 ppb	12:26:28
3	Be 313.107†	-4336.3	-52.5	-0.0189 ug/L	-0.0189 ppb	12:26:08
3	Cd 226.502†	-193.5	7.3	0.0770 ug/L	0.0770 ppb	12:26:28
3	Co 228.616†	-72.5	5.2	0.1030 ug/L	0.1030 ppb	12:26:28
3	Cr 267.716†	77.3	4.8	0.0501 ug/L	0.0501 ppb	12:26:28
3	Cu 324.752†	6555.4	70.9	0.2051 ug/L	0.2051 ppb	12:26:08
3	Mn 257.610†	403.4	-73.2	-0.0757 ug/L	-0.0757 ppb	12:26:28
3	Mo 202.031†	26.3	6.0	0.4029 ug/L	0.4029 ppb	12:26:28
3	Ni 231.604†	90.5	-2.9	-0.0693 ug/L	-0.0693 ppb	12:26:28
3	P 214.914†	213.6	4.1	2.3023 ug/L	2.3023 ppb	12:26:28
3	Pb 220.353†	-74.7	-8.0	-0.9377 ug/L	-0.9377 ppb	12:26:28
3	S 181.975 Axial†	50.5	6.4	8.5637 ug/L	8.5637 ppb	12:26:28
3	Sb 206.836†	41.7	12.9	4.2775 ug/L	4.2775 ppb	12:26:28
3	Se 196.026†	-36.6	-12.8	-7.7918 ug/L	-7.7918 ppb	12:26:28
3	Si 251.611†	467.3	28.2	0.8580 ug/L	0.8580 ppb	12:26:28
3	Sn 189.927†	5.4	4.7	0.7845 ug/L	0.7845 ppb	12:26:28
3	Ti 334.940†	-1403.7	-66.5	-0.1035 ug/L	-0.1035 ppb	12:26:08
3	Tl 190.801†	-33.8	5.3	1.5556 ug/L	1.5556 ppb	12:26:28
3	U 409.014†	-2002.4	56.2	1.5960 ug/L	1.5960 ppb	12:26:08
3	V 292.402†	-1429.7	-52.2	-0.3337 ug/L	-0.3337 ppb	12:26:08
3	Zn 213.857†	640.4	-350.3	-3.1674 ug/L	-3.1674 ppb	12:26:28
3	SiO2†	471.9	17.4	1.1263 ug/L	1.1263 ppb	12:26:44

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	863175.5	98.957 %	0.6148			0.62%
Sc Radial	5211.8	98.1 %	1.01			1.03%
Y 371.029	725727.2	98.942 %	0.5763			0.58%
Y RADIAL	5549.5	97.83 %	0.745			0.76%
Ag 328.068†	6.3	0.0241 ug/L	0.03855	0.0241 ppb	0.03855	159.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.5	4.7044 ug/L	5.50831	4.7044 ppb	5.50831	117.09%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.7	-1.0964 ug/L	0.99448	-1.0964 ppb	0.99448	90.70%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	349.0	7.6091 ug/L	0.22604	7.6091 ppb	0.22604	2.97%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.2	0.0232 ug/L	0.03878	0.0232 ppb	0.03878	167.45%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-60.6	-0.0217 ug/L	0.01330	-0.0217 ppb	0.01330	61.40%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.8	-10.324 ug/L	2.5097	-10.324 ppb	2.5097	24.31%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	15.4	0.1641 ug/L	0.11630	0.1641 ppb	0.11630	70.85%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	6.3	0.1241 ug/L	0.03387	0.1241 ppb	0.03387	27.30%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	12.1	0.1289 ug/L	0.08079	0.1289 ppb	0.08079	62.65%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	51.1	0.1479 ug/L	0.06966	0.1479 ppb	0.06966	47.11%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-1.2	-9.5772 ug/L	16.05606	-9.5772 ppb	16.05606	167.65%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	33.9	6.1366 ug/L	12.41748	6.1366 ppb	12.41748	202.35%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-0.6	-19.340 ug/L	19.0222	-19.340 ppb	19.0222	98.36%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-60.2	-0.0638 ug/L	0.01302	-0.0638 ppb	0.01302	20.40%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	6.7	0.4544 ug/L	0.04643	0.4544 ppb	0.04643	10.22%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	30.8	8.9816 ug/L	12.99870	8.9816 ppb	12.99870	144.73%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	6.5	0.1551 ug/L	0.19657	0.1551 ppb	0.19657	126.74%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	7.5	4.3141 ug/L	4.21375	4.3141 ppb	4.21375	97.67%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-3.6	-0.4130 ug/L	1.28047	-0.4130 ppb	1.28047	310.02%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	6.7	8.9343 ug/L	5.53820	8.9343 ppb	5.53820	61.99%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	11.4	3.7973 ug/L	0.86368	3.7973 ppb	0.86368	22.74%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-8.2	-5.0123 ug/L	2.70712	-5.0123 ppb	2.70712	54.01%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	18.7	0.5668 ug/L	0.28732	0.5668 ppb	0.28732	50.69%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	3.3	0.5563 ug/L	0.47802	0.5563 ppb	0.47802	85.94%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-4.9	-0.0309 ug/L	0.09820	-0.0309 ppb	0.09820	317.71%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	-35.6	-0.0550 ug/L	0.14401	-0.0550 ppb	0.14401	261.62%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	5.0	1.4630 ug/L	1.54454	1.4630 ppb	1.54454	105.57%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	-9.2	-0.2595 ug/L	1.61933	-0.2595 ppb	1.61933	624.06%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	-39.7	-0.2523 ug/L	0.09280	-0.2523 ppb	0.09280	36.79%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-333.0	-3.0104 ug/L	0.13658	-3.0104 ppb	0.13658	4.54%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	23.9	1.5520 ug/L	0.77779	1.5520 ppb	0.77779	50.12%			
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: 1/13/2010 12:28:54
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5261.4	5261.4	99.1 %			12:30:47
1	Y RADIAL	5593.4	5593.4	98.61 %			12:30:47
1	Al 396.153Radial†	250.6	269.7	196.22 ug/L		196.22 ppb	12:30:47
1	Ca 317.933Radial†	149.3	129.1	196.23 ug/L		196.23 ppb	12:31:07
1	Fe 238.204 Radial†	23.1	13.1	108.23 ug/L		108.23 ppb	12:31:07
1	K 766.490 Radial†	3519.9	904.0	163.55 ug/L		163.55 ppb	12:30:47
1	Mg 279.077 IEC†	11.7	8.6	269.05 ug/L		269.05 ppb	12:31:07
1	Na 589.592 Radial†	-577.7	1033.9	301.31 ug/L		301.31 ppb	12:30:47
1	Sr 421.552†	734.2	725.3	4.5804 ug/L		4.5804 ppb	12:30:47
1	Sc 361.383	869801.6	869801.6	99.716 %			12:32:04
1	Y 371.029	730718.7	730718.7	99.622 %			12:32:04
1	Ag 328.068†	1431.7	1056.5	4.7088 ug/L		4.7088 ppb	12:32:04
1	As 188.979†	44.4	68.0	27.643 ug/L		27.643 ppb	12:32:24
1	B 249.677†	1759.0	2400.8	52.309 ug/L		52.309 ppb	12:32:04
1	Ba 233.527†	662.7	673.4	5.0784 ug/L		5.0784 ppb	12:32:24
1	Be 313.107†	9219.0	13569.7	4.8302 ug/L		4.8302 ppb	12:32:04
1	Cd 226.502†	264.1	467.5	4.9526 ug/L		4.9526 ppb	12:32:24
1	Co 228.616†	172.6	251.5	4.9433 ug/L		4.9433 ppb	12:32:24
1	Cr 267.716†	536.4	464.7	4.9538 ug/L		4.9538 ppb	12:32:24
1	Cu 324.752†	9905.6	3387.8	9.8025 ug/L		9.8025 ppb	12:32:04
1	Mn 257.610†	10136.1	9684.5	10.247 ug/L		10.247 ppb	12:32:04
1	Mo 202.031†	149.8	129.7	8.7659 ug/L		8.7659 ppb	12:32:24
1	Ni 231.604†	291.4	198.0	4.7099 ug/L		4.7099 ppb	12:32:24
1	P 214.914†	487.0	276.8	157.47 ug/L		157.47 ppb	12:32:24
1	Pb 220.353†	20.3	87.7	10.277 ug/L		10.277 ppb	12:32:24
1	S 181.975 Axial†	119.0	74.8	99.710 ug/L		99.710 ppb	12:32:24
1	Sb 206.836†	64.6	35.6	12.113 ug/L		12.113 ppb	12:32:24
1	Se 196.026†	13.5	37.7	23.306 ug/L		23.306 ppb	12:32:24
1	Si 251.611†	3532.5	3099.1	94.774 ug/L		94.774 ppb	12:32:24
1	Sn 189.927†	63.8	63.2	10.636 ug/L		10.636 ppb	12:32:24
1	Ti 334.940†	1805.0	3160.5	4.8859 ug/L		4.8859 ppb	12:32:04
1	Tl 190.801†	31.7	71.3	20.817 ug/L		20.817 ppb	12:32:24
1	U 409.014†	-205.5	1871.4	53.153 ug/L		53.153 ppb	12:32:04
1	V 292.402†	-653.6	735.4	5.0143 ug/L		5.0143 ppb	12:32:04
1	Zn 213.857†	1763.3	771.6	6.9221 ug/L		6.9221 ppb	12:32:24
1	SiO2†	3660.8	3212.3	210.07 ug/L		210.07 ppb	12:33:21
2	Sc Radial	5161.4	5161.4	97.2 %			12:31:13
2	Y RADIAL	5544.1	5544.1	97.74 %			12:31:13
2	Al 396.153Radial†	250.2	274.2	199.41 ug/L		199.41 ppb	12:31:13
2	Ca 317.933Radial†	149.9	132.6	201.56 ug/L		201.56 ppb	12:31:33
2	Fe 238.204 Radial†	22.0	12.5	103.05 ug/L		103.05 ppb	12:31:33
2	K 766.490 Radial†	3484.7	936.6	169.46 ug/L		169.46 ppb	12:31:13
2	Mg 279.077 IEC†	10.0	7.0	220.10 ug/L		220.10 ppb	12:31:33
2	Na 589.592 Radial†	-572.7	1027.8	299.51 ug/L		299.51 ppb	12:31:13
2	Sr 421.552†	775.2	781.8	4.9374 ug/L		4.9374 ppb	12:31:13
2	Sc 361.383	860809.8	860809.8	98.685 %			12:32:30
2	Y 371.029	723025.5	723025.5	98.573 %			12:32:30
2	Ag 328.068†	1427.5	1067.3	4.7568 ug/L		4.7568 ppb	12:32:30
2	As 188.979†	43.2	67.2	27.320 ug/L		27.320 ppb	12:32:50
2	B 249.677†	1775.8	2436.2	53.083 ug/L		53.083 ppb	12:32:30
2	Ba 233.527†	651.0	668.5	5.0407 ug/L		5.0407 ppb	12:32:50
2	Be 313.107†	9106.7	13552.4	4.8240 ug/L		4.8240 ppb	12:32:30
2	Cd 226.502†	253.2	459.1	4.8649 ug/L		4.8649 ppb	12:32:50
2	Co 228.616†	162.3	242.9	4.7767 ug/L		4.7767 ppb	12:32:50
2	Cr 267.716†	524.8	458.6	4.8893 ug/L		4.8893 ppb	12:32:50
2	Cu 324.752†	9856.5	3441.8	9.9608 ug/L		9.9608 ppb	12:32:30
2	Mn 257.610†	10038.2	9691.6	10.256 ug/L		10.256 ppb	12:32:30
2	Mo 202.031†	163.2	144.8	9.7851 ug/L		9.7851 ppb	12:32:50
2	Ni 231.604†	317.9	228.0	5.4233 ug/L		5.4233 ppb	12:32:50

2	P 214.914†	470.1	264.8	150.52 ug/L	150.52 ppb	12:32:50
2	Pb 220.353†	15.1	82.6	9.6901 ug/L	9.6901 ppb	12:32:50
2	S 181.975 Axial†	122.2	79.3	105.75 ug/L	105.75 ppb	12:32:50
2	Sb 206.836†	60.6	32.1	10.986 ug/L	10.986 ppb	12:32:50
2	Se 196.026†	23.8	48.2	29.732 ug/L	29.732 ppb	12:32:50
2	Si 251.611†	3500.2	3103.4	94.894 ug/L	94.894 ppb	12:32:50
2	Sn 189.927†	61.5	61.6	10.362 ug/L	10.362 ppb	12:32:50
2	Ti 334.940†	1751.1	3124.8	4.8366 ug/L	4.8366 ppb	12:32:30
2	Tl 190.801†	32.6	72.5	21.180 ug/L	21.180 ppb	12:32:50
2	U 409.014†	-315.0	1758.2	49.939 ug/L	49.939 ppb	12:32:30
2	V 292.402†	-681.5	700.3	4.7931 ug/L	4.7931 ppb	12:32:30
2	Zn 213.857†	1748.5	775.1	6.9490 ug/L	6.9490 ppb	12:32:50
2	SiO2†	3612.2	3201.4	209.32 ug/L	209.32 ppb	12:33:26
3	Sc Radial	5286.0	5286.0	99.5 %		12:31:38
3	Y RADIAL	5616.9	5616.9	99.02 %		12:31:38
3	Al 396.153Radial†	277.9	295.9	215.28 ug/L	215.28 ppb	12:31:38
3	Ca 317.933Radial†	146.5	125.6	190.94 ug/L	190.94 ppb	12:31:58
3	Fe 238.204 Radial†	21.3	11.2	92.767 ug/L	92.767 ppb	12:31:58
3	K 766.490 Radial†	3493.6	861.0	155.77 ug/L	155.77 ppb	12:31:38
3	Mg 279.077 IEC†	13.3	10.2	317.64 ug/L	317.64 ppb	12:31:58
3	Na 589.592 Radial†	-520.8	1093.8	318.76 ug/L	318.76 ppb	12:31:38
3	Sr 421.552†	792.9	780.8	4.9310 ug/L	4.9310 ppb	12:31:38
3	Sc 361.383	869332.4	869332.4	99.663 %		12:32:55
3	Y 371.029	731378.3	731378.3	99.712 %		12:32:55
3	Ag 328.068†	1403.8	1029.2	4.5837 ug/L	4.5837 ppb	12:32:55
3	As 188.979†	50.2	73.8	29.997 ug/L	29.997 ppb	12:33:15
3	B 249.677†	1714.8	2357.3	51.364 ug/L	51.364 ppb	12:32:55
3	Ba 233.527†	659.7	670.8	5.0576 ug/L	5.0576 ppb	12:33:15
3	Be 313.107†	9297.7	13653.6	4.8599 ug/L	4.8599 ppb	12:32:55
3	Cd 226.502†	276.5	480.0	5.0869 ug/L	5.0869 ppb	12:33:15
3	Co 228.616†	172.3	251.3	4.9423 ug/L	4.9423 ppb	12:33:15
3	Cr 267.716†	529.6	458.2	4.8842 ug/L	4.8842 ppb	12:33:15
3	Cu 324.752†	9994.5	3482.4	10.077 ug/L	10.077 ppb	12:32:55
3	Mn 257.610†	10070.9	9624.6	10.180 ug/L	10.180 ppb	12:32:55
3	Mo 202.031†	166.9	146.9	9.9290 ug/L	9.9290 ppb	12:33:15
3	Ni 231.604†	288.2	194.9	4.6375 ug/L	4.6375 ppb	12:33:15
3	P 214.914†	485.5	275.7	156.75 ug/L	156.75 ppb	12:33:15
3	Pb 220.353†	31.0	98.4	11.540 ug/L	11.540 ppb	12:33:15
3	S 181.975 Axial†	125.3	81.2	108.24 ug/L	108.24 ppb	12:33:15
3	Sb 206.836†	61.8	32.8	11.202 ug/L	11.202 ppb	12:33:15
3	Se 196.026†	20.8	45.0	27.755 ug/L	27.755 ppb	12:33:15
3	Si 251.611†	3527.9	3096.4	94.677 ug/L	94.677 ppb	12:33:15
3	Sn 189.927†	62.2	61.6	10.364 ug/L	10.364 ppb	12:33:15
3	Ti 334.940†	1754.9	3111.2	4.8056 ug/L	4.8056 ppb	12:32:55
3	Tl 190.801†	29.6	69.2	20.201 ug/L	20.201 ppb	12:33:15
3	U 409.014†	-264.8	1811.7	51.459 ug/L	51.459 ppb	12:32:55
3	V 292.402†	-663.4	725.2	4.9641 ug/L	4.9641 ppb	12:32:55
3	Zn 213.857†	1755.8	765.0	6.8638 ug/L	6.8638 ppb	12:33:15
3	SiO2†	3692.6	3246.1	212.25 ug/L	212.25 ppb	12:33:31

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	866647.9	99.355 %	0.5803			0.58%
Sc Radial	5236.3	98.6 %	1.24			1.26%
Y 371.029	728374.2	99.303 %	0.6331			0.64%
Y RADIAL	5584.8	98.46 %	0.654			0.66%
Ag 328.068†	1051.0	4.6831 ug/L	0.08935	4.6831 ppb	0.08935	1.91%
QC value within limits for Ag 328.068 Recovery = 93.66%						
Al 396.153Radial†	279.9	203.64 ug/L	10.211	203.64 ppb	10.211	5.01%
QC value within limits for Al 396.153Radial Recovery = 101.82%						
As 188.979†	69.6	28.320 ug/L	1.4614	28.320 ppb	1.4614	5.16%
QC value within limits for As 188.979 Recovery = 94.40%						
B 249.677†	2398.1	52.252 ug/L	0.8609	52.252 ppb	0.8609	1.65%
QC value within limits for B 249.677 Recovery = 104.50%						
Ba 233.527†	670.9	5.0589 ug/L	0.01888	5.0589 ppb	0.01888	0.37%
QC value within limits for Ba 233.527 Recovery = 101.18%						
Be 313.107†	13591.9	4.8380 ug/L	0.01917	4.8380 ppb	0.01917	0.40%
QC value within limits for Be 313.107 Recovery = 96.76%						
Ca 317.933Radial†	129.1	196.24 ug/L	5.309	196.24 ppb	5.309	2.71%

QC value within limits for Ca 317.933 Radial Recovery = 98.12%							
Cd 226.502†	468.9	4.9681 ug/L	0.11179	4.9681 ppb	0.11179	2.25%	
QC value within limits for Cd 226.502 Recovery = 99.36%							
Co 228.616†	248.6	4.8874 ug/L	0.09592	4.8874 ppb	0.09592	1.96%	
QC value within limits for Co 228.616 Recovery = 97.75%							
Cr 267.716†	460.5	4.9091 ug/L	0.03883	4.9091 ppb	0.03883	0.79%	
QC value within limits for Cr 267.716 Recovery = 98.18%							
Cu 324.752†	3437.3	9.9468 ug/L	0.13779	9.9468 ppb	0.13779	1.39%	
QC value within limits for Cu 324.752 Recovery = 99.47%							
Fe 238.204 Radial†	12.3	101.35 ug/L	7.871	101.35 ppb	7.871	7.77%	
QC value within limits for Fe 238.204 Radial Recovery = 101.35%							
K 766.490 Radial†	900.5	162.93 ug/L	6.867	162.93 ppb	6.867	4.21%	
QC value within limits for K 766.490 Radial Recovery = 108.62%							
Mg 279.077 IEC†	8.6	268.93 ug/L	48.774	268.93 ppb	48.774	18.14%	
QC value within limits for Mg 279.077 IEC Recovery = 89.64%							
Mn 257.610†	9666.9	10.228 ug/L	0.0415	10.228 ppb	0.0415	0.41%	
QC value within limits for Mn 257.610 Recovery = 102.28%							
Mo 202.031†	140.5	9.4933 ug/L	0.63407	9.4933 ppb	0.63407	6.68%	
QC value within limits for Mo 202.031 Recovery = 94.93%							
Na 589.592 Radial†	1051.8	306.53 ug/L	10.630	306.53 ppb	10.630	3.47%	
QC value within limits for Na 589.592 Radial Recovery = 102.18%							
Ni 231.604†	207.0	4.9236 ug/L	0.43427	4.9236 ppb	0.43427	8.82%	
QC value within limits for Ni 231.604 Recovery = 98.47%							
P 214.914†	272.4	154.92 ug/L	3.822	154.92 ppb	3.822	2.47%	
QC value within limits for P 214.914 Recovery = 103.28%							
Pb 220.353†	89.6	10.502 ug/L	0.9453	10.502 ppb	0.9453	9.00%	
QC value within limits for Pb 220.353 Recovery = 105.02%							
S 181.975 Axial†	78.5	104.57 ug/L	4.386	104.57 ppb	4.386	4.19%	
QC value within limits for S 181.975 Axial Recovery = 104.57%							
Sb 206.836†	33.5	11.433 ug/L	0.5980	11.433 ppb	0.5980	5.23%	
QC value within limits for Sb 206.836 Recovery = 114.33%							
Se 196.026†	43.7	26.931 ug/L	3.2914	26.931 ppb	3.2914	12.22%	
QC value within limits for Se 196.026 Recovery = 89.77%							
Si 251.611†	3099.6	94.782 ug/L	0.1089	94.782 ppb	0.1089	0.11%	
QC value within limits for Si 251.611 Recovery = 94.78%							
Sn 189.927†	62.1	10.454 ug/L	0.1574	10.454 ppb	0.1574	1.51%	
QC value within limits for Sn 189.927 Recovery = 104.54%							
Sr 421.552†	762.6	4.8163 ug/L	0.20430	4.8163 ppb	0.20430	4.24%	
QC value within limits for Sr 421.552 Recovery = 96.33%							
Ti 334.940†	3132.2	4.8427 ug/L	0.04053	4.8427 ppb	0.04053	0.84%	
QC value within limits for Ti 334.940 Recovery = 96.85%							
Tl 190.801†	71.0	20.733 ug/L	0.4948	20.733 ppb	0.4948	2.39%	
QC value within limits for Tl 190.801 Recovery = 103.66%							
U 409.014†	1813.7	51.517 ug/L	1.6081	51.517 ppb	1.6081	3.12%	
QC value within limits for U 409.014 Recovery = 103.03%							
V 292.402†	720.3	4.9238 ug/L	0.11596	4.9238 ppb	0.11596	2.36%	
QC value within limits for V 292.402 Recovery = 98.48%							
Zn 213.857†	770.5	6.9116 ug/L	0.04355	6.9116 ppb	0.04355	0.63%	
QC value less than the lower limit for Zn 213.857 Recovery = 69.12%							
Sio2†	3220.0	210.55 ug/L	1.520	210.55 ppb	1.520	0.72%	
QC value within limits for Sio2 Recovery = 98.85%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: IC5A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 1/13/2010 12:35:42

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	4713.5	4713.5	88.8 %		12:37:40
1	Y RADIAL	5009.0	5009.0	88.31 %		12:37:40
1	Al 396.153Radial†	620558.1	699157.7	509760 ug/L	509760 ppb	12:37:35
1	Ca 317.933Radial†	279316.9	314665.9	478210 ug/L	478210 ppb	12:37:35
1	Fe 238.204 Radial†	20081.2	22613.9	186430 ug/L	186430 ppb	12:37:40
1	K 766.490 Radial†	2175.0	-198.1	-195.84 ug/L	-195.84 ppb	12:37:35
1	Mg 279.077 IEC†	13793.6	15537.1	485510 ug/L	485510 ppb	12:37:40
1	Na 589.592 Radial†	-1400.1	39.6	11.539 ug/L	11.539 ppb	12:37:40
1	Sr 421.552†	520.7	570.9	0.0355 ug/L	0.0355 ppb	12:37:40
1	Sc 361.383	750179.1	750179.1	86.002 %		12:38:07
1	Y 371.029	613855.5	613855.5	83.690 %		12:38:07
1	Ag 328.068†	-9871.2	-11857.0	1.1665 ug/L	1.1665 ppb	12:38:07
1	As 188.979†	-83.3	-73.4	13.701 ug/L	13.701 ppb	12:38:27
1	B 249.677†	416.0	1120.4	-5.8524 ug/L	-5.8524 ppb	12:38:07
1	Be 233.527†	-484.6	-554.6	1.5392 ug/L	1.5392 ppb	12:38:27
1	Ba 313.107†	-4220.9	-583.4	-0.2617 ug/L	-0.2617 ppb	12:38:07
1	Cd 226.502†	1297.1	1710.8	-1.1315 ug/L	-1.1315 ppb	12:38:27
1	Co 228.616†	-10.4	66.3	-1.3876 ug/L	-1.3876 ppb	12:38:27
1	Cr 267.716†	-70.4	-155.1	1.9776 ug/L	1.9776 ppb	12:38:27
1	Cu 324.752†	3807.0	-2119.3	3.7031 ug/L	3.7031 ppb	12:38:07
1	Mn 257.610†	962.8	639.1	-0.7694 ug/L	-0.7694 ppb	12:38:07
1	Mo 202.031†	-226.0	-283.3	1.0333 ug/L	1.0333 ppb	12:38:27
1	Ni 231.604†	176.1	110.5	2.6307 ug/L	2.6307 ppb	12:38:27
1	P 214.914†	171.4	-12.2	-29.518 ug/L	-29.518 ppb	12:38:27
1	Pb 220.353†	-811.6	-876.4	-2.1527 ug/L	-2.1527 ppb	12:38:27
1	S 181.975 Axial†	82.6	51.5	-26.880 ug/L	-26.880 ppb	12:38:27
1	Sb 206.836†	75.7	58.8	9.0174 ug/L	9.0174 ppb	12:38:27
1	Se 196.026†	-907.1	-1030.6	9.8660 ug/L	9.8660 ppb	12:38:27
1	Si 251.611†	476.3	110.4	3.6157 ug/L	3.6157 ppb	12:38:27
1	Sn 189.927†	-364.6	-424.7	4.5832 ug/L	4.5832 ppb	12:38:27
1	Ti 334.940†	-14461.4	-15464.7	0.4462 ug/L	0.4462 ppb	12:38:07
1	Tl 190.801†	-86.8	-61.5	-18.142 ug/L	-18.142 ppb	12:38:27
1	U 409.014†	-816.7	1127.8	10.797 ug/L	10.797 ppb	12:38:07
1	V 292.402†	1079.9	2646.6	-0.6587 ug/L	-0.6587 ppb	12:38:27
1	Zn 213.857†	3015.1	2509.1	4.5904 ug/L	4.5904 ppb	12:38:27
1	SiO2†	441.0	53.8	4.0453 ug/L	4.0453 ppb	12:39:24
2	Sc Radial	4638.1	4638.1	87.3 %		12:37:50
2	Y RADIAL	4904.8	4904.8	86.47 %		12:37:50
2	Al 396.153Radial†	622505.2	712747.4	519670 ug/L	519670 ppb	12:37:45
2	Ca 317.933Radial†	279237.5	319688.5	485840 ug/L	485840 ppb	12:37:45
2	Fe 238.204 Radial†	19756.2	22609.5	186400 ug/L	186400 ppb	12:37:50
2	K 766.490 Radial†	2178.4	-154.5	-190.51 ug/L	-190.51 ppb	12:37:45
2	Mg 279.077 IEC†	13518.4	15474.5	483550 ug/L	483550 ppb	12:37:50
2	Na 589.592 Radial†	-1285.1	145.7	42.447 ug/L	42.447 ppb	12:37:50
2	Sr 421.552†	511.3	569.7	-0.0292 ug/L	-0.0292 ppb	12:37:50
2	Sc 361.383	746639.5	746639.5	85.597 %		12:38:33
2	Y 371.029	611625.4	611625.4	83.386 %		12:38:33
2	Ag 328.068†	-9727.4	-11743.5	1.5588 ug/L	1.5588 ppb	12:38:33
2	As 188.979†	-97.0	-89.9	6.9916 ug/L	6.9916 ppb	12:38:53
2	B 249.677†	439.3	1150.0	-5.2005 ug/L	-5.2005 ppb	12:38:33
2	Be 233.527†	-465.4	-534.8	1.6877 ug/L	1.6877 ppb	12:38:53
2	Ba 313.107†	-4068.2	-428.3	-0.2055 ug/L	-0.2055 ppb	12:38:33
2	Cd 226.502†	1325.1	1750.7	-0.7062 ug/L	-0.7062 ppb	12:38:53
2	Co 228.616†	-31.7	41.4	-1.8783 ug/L	-1.8783 ppb	12:38:53
2	Cr 267.716†	-104.1	-194.9	1.5531 ug/L	1.5531 ppb	12:38:53
2	Cu 324.752†	3728.1	-2190.6	3.4958 ug/L	3.4958 ppb	12:38:33
2	Mn 257.610†	1006.4	695.3	-0.6336 ug/L	-0.6336 ppb	12:38:33
2	Mo 202.031†	-231.3	-290.8	0.6166 ug/L	0.6166 ppb	12:38:53
2	Ni 231.604†	191.2	129.2	3.0744 ug/L	3.0744 ppb	12:38:53

2	P 214.914†	152.0	-33.9	-39.483 ug/L	-39.483 ppb	12:38:53
2	Pb 220.353†	-793.0	-859.1	2.1295 ug/L	2.1295 ppb	12:38:53
2	S 181.975 Axial†	97.6	69.5	-4.7203 ug/L	-4.7203 ppb	12:38:53
2	Sb 206.836†	72.5	55.4	7.5922 ug/L	7.5922 ppb	12:38:53
2	Se 196.026†	-888.8	-1014.2	20.247 ug/L	20.247 ppb	12:38:53
2	Si 251.611†	491.7	131.0	4.2538 ug/L	4.2538 ppb	12:38:53
2	Sn 189.927†	-370.7	-433.9	4.1987 ug/L	4.1987 ppb	12:38:53
2	Ti 334.940†	-14124.1	-15150.3	2.1190 ug/L	2.1190 ppb	12:38:33
2	Tl 190.801†	-85.7	-60.7	-17.904 ug/L	-17.904 ppb	12:38:53
2	U 409.014†	-880.0	1049.3	8.5719 ug/L	8.5719 ppb	12:38:33
2	V 292.402†	1108.0	2685.3	-0.4498 ug/L	-0.4498 ppb	12:38:53
2	Zn 213.857†	2993.0	2499.9	4.5084 ug/L	4.5084 ppb	12:38:53
2	SiO2†	413.2	23.8	2.0961 ug/L	2.0961 ppb	12:39:29
3	Sc Radial	4739.2	4739.2	89.2 %		12:38:01
3	Y RADIAL	5019.4	5019.4	88.49 %		12:38:01
3	Al 396.153Radial†	610043.7	683576.5	498400 ug/L	498400 ppb	12:37:56
3	Ca 317.933Radial†	274346.5	307386.3	467150 ug/L	467150 ppb	12:37:56
3	Fe 238.204 Radial†	20082.8	22492.8	185440 ug/L	185440 ppb	12:38:01
3	K 766.490 Radial†	2153.3	-235.9	-198.98 ug/L	-198.98 ppb	12:37:56
3	Mg 279.077 IEC†	13819.4	15481.6	483780 ug/L	483780 ppb	12:38:01
3	Na 589.592 Radial†	-1348.0	106.5	31.043 ug/L	31.043 ppb	12:38:01
3	Sr 421.552†	532.7	581.2	0.1834 ug/L	0.1834 ppb	12:38:01
3	Sc 361.383	735508.0	735508.0	84.321 %		12:38:58
3	Y 371.029	601955.8	601955.8	82.067 %		12:38:58
3	Ag 328.068†	-9738.4	-11928.6	0.6775 ug/L	0.6775 ppb	12:38:58
3	As 188.979†	-86.1	-78.7	11.337 ug/L	11.337 ppb	12:39:18
3	B 249.677†	399.6	1110.6	-5.9032 ug/L	-5.9032 ppb	12:38:58
3	Ba 233.527†	-485.3	-566.7	1.4186 ug/L	1.4186 ppb	12:39:18
3	Be 313.107†	-4177.4	-629.7	-0.2769 ug/L	-0.2769 ppb	12:38:58
3	Cd 226.502†	1295.2	1738.7	-0.7341 ug/L	-0.7341 ppb	12:39:18
3	Co 228.616†	-20.4	54.2	-1.6106 ug/L	-1.6106 ppb	12:39:18
3	Cr 267.716†	-76.9	-164.5	1.8592 ug/L	1.8592 ppb	12:39:18
3	Cu 324.752†	3751.0	-2097.6	3.7141 ug/L	3.7141 ppb	12:38:58
3	Mn 257.610†	1045.5	759.5	-0.6697 ug/L	-0.6697 ppb	12:38:58
3	Mo 202.031†	-219.1	-280.4	1.0213 ug/L	1.0213 ppb	12:39:18
3	Ni 231.604†	170.5	108.0	2.5701 ug/L	2.5701 ppb	12:39:18
3	P 214.914†	164.1	-16.9	-34.285 ug/L	-34.285 ppb	12:39:18
3	Pb 220.353†	-774.2	-850.9	-1.7156 ug/L	-1.7156 ppb	12:39:18
3	S 181.975 Axial†	60.0	26.6	-57.905 ug/L	-57.905 ppb	12:39:18
3	Sb 206.836†	74.7	59.3	9.4541 ug/L	9.4541 ppb	12:39:18
3	Se 196.026†	-922.1	-1069.5	-17.622 ug/L	-17.622 ppb	12:39:18
3	Si 251.611†	468.0	111.6	3.6491 ug/L	3.6491 ppb	12:39:18
3	Sn 189.927†	-361.5	-429.5	2.0728 ug/L	2.0728 ppb	12:39:18
3	Ti 334.940†	-13874.9	-15104.6	-0.3362 ug/L	-0.3362 ppb	12:38:58
3	Tl 190.801†	-85.8	-62.2	-18.355 ug/L	-18.355 ppb	12:39:18
3	U 409.014†	-835.4	1086.7	9.7439 ug/L	9.7439 ppb	12:38:58
3	V 292.402†	1098.8	2694.0	-0.2370 ug/L	-0.2370 ppb	12:39:18
3	Zn 213.857†	3025.1	2590.9	5.4271 ug/L	5.4271 ppb	12:39:18
3	SiO2†	444.7	68.5	5.0021 ug/L	5.0021 ppb	12:39:34

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	744108.9	85.307 %		0.8777			1.03%
Sc Radial	4696.9	88.4 %		0.99			1.12%
Y 371.029	609145.6	83.048 %		0.8624			1.04%
Y RADIAL	4977.7	87.75 %		1.117			1.27%
Ag 328.068†	-11843.0	1.1343 ug/L		0.44153	1.1343 ppb	0.44153	38.93%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	698493.9	509280 ug/L		10642.6	509280 ppb	10642.6	2.09%
QC value within limits for Al 396.153Radial Recovery = 101.86%							
As 188.979†	-80.7	10.676 ug/L		3.4032	10.676 ppb	3.4032	31.88%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	1127.0	-5.6520 ug/L		0.39190	-5.6520 ppb	0.39190	6.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-552.1	1.5485 ug/L		0.13481	1.5485 ppb	0.13481	8.71%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-547.1	-0.2480 ug/L		0.03760	-0.2480 ppb	0.03760	15.16%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	313913.6	477070 ug/L		9400.4	477070 ppb	9400.4	1.97%

QC value within limits for Ca 317.933 Radial Recovery = 95.41%

Cd 226.502†	1733.4	-0.8573 ug/L	0.23794	-0.8573 ppb	0.23794	27.76%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	54.0	-1.6255 ug/L	0.24569	-1.6255 ppb	0.24569	15.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-171.5	1.7966 ug/L	0.21909	1.7966 ppb	0.21909	12.19%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2135.8	3.6377 ug/L	0.12300	3.6377 ppb	0.12300	3.38%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	22572.1	186090 ug/L	566.4	186090 ppb	566.4	0.30%
QC value within limits for Fe 238.204 Radial Recovery = 93.04%						
K 766.490 Radial†	-196.2	-195.11 ug/L	4.285	-195.11 ppb	4.285	2.20%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	15497.7	484280 ug/L	1071.4	484280 ppb	1071.4	0.22%
QC value within limits for Mg 279.077 IEC Recovery = 96.86%						
Mn 257.610†	698.0	-0.6909 ug/L	0.07036	-0.6909 ppb	0.07036	10.18%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-284.8	0.8904 ug/L	0.23722	0.8904 ppb	0.23722	26.64%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	97.3	28.343 ug/L	15.6297	28.343 ppb	15.6297	55.15%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	115.9	2.7584 ug/L	0.27533	2.7584 ppb	0.27533	9.98%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-21.0	-34.429 ug/L	4.9842	-34.429 ppb	4.9842	14.48%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-862.1	-0.5796 ug/L	2.35635	-0.5796 ppb	2.35635	406.54%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	49.2	-29.835 ug/L	26.7153	-29.835 ppb	26.7153	89.54%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	57.9	8.6879 ug/L	0.97373	8.6879 ppb	0.97373	11.21%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1038.1	4.1637 ug/L	19.56803	4.1637 ppb	19.56803	469.97%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	117.7	3.8395 ug/L	0.35915	3.8395 ppb	0.35915	9.35%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-429.3	3.6183 ug/L	1.35211	3.6183 ppb	1.35211	37.37%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	573.9	0.0632 ug/L	0.10893	0.0632 ppb	0.10893	172.25%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-15239.9	0.7430 ug/L	1.25425	0.7430 ppb	1.25425	168.81%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-61.5	-18.133 ug/L	0.2255	-18.133 ppb	0.2255	1.24%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1087.9	9.7044 ug/L	1.11327	9.7044 ppb	1.11327	11.47%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2675.3	-0.4485 ug/L	0.21087	-0.4485 ppb	0.21087	47.02%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2533.3	4.8420 ug/L	0.50837	4.8420 ppb	0.50837	10.50%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	48.7	3.7145 ug/L	1.48096	3.7145 ppb	1.48096	39.87%
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: 1/13/2010 12:41:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4769.4	4769.4	89.8 %		12:43:43
1	Y RADIAL	5005.1	5005.1	88.24 %		12:43:43
1	Al 396.153Radial†	626251.4	697294.0	508380 ug/L	508380 ppb	12:43:38
1	Ca 317.933Radial†	280827.3	312655.6	475160 ug/L	475160 ppb	12:43:38
1	Fe 238.204 Radial†	20669.0	23002.9	189660 ug/L	189660 ppb	12:43:43
1	K 766.490 Radial†	29792.9	30523.2	5367.1 ug/L	5367.1 ppb	12:43:38
1	Mg 279.077 IEC†	14170.2	15774.0	492920 ug/L	492920 ppb	12:43:43
1	Na 589.592 Radial†	16002.8	19434.8	5663.7 ug/L	5663.7 ppb	12:43:43
1	Sr 421.552†	72772.7	81010.5	508.21 ug/L	508.21 ppb	12:43:38
1	Sc 361.383	743747.7	743747.7	85.265 %		12:44:11
1	Y 371.029	608244.1	608244.1	82.925 %		12:44:11
1	Ag 328.068†	42456.0	49413.6	276.48 ug/L	276.48 ppb	12:44:11
1	As 188.979†	1007.8	1205.3	536.93 ug/L	536.93 ppb	12:44:31
1	B 249.677†	20606.8	24804.7	508.68 ug/L	508.68 ppb	12:44:11
1	Ba 233.527†	56096.3	65799.2	501.75 ug/L	501.75 ppb	12:44:11
1	Be 313.107†	579266.1	683694.7	243.92 ug/L	243.92 ppb	12:44:11
1	Cd 226.502†	39414.7	46428.6	472.48 ug/L	472.48 ppb	12:44:11
1	Co 228.616†	19737.6	23226.9	453.08 ug/L	453.08 ppb	12:44:31
1	Cr 267.716†	38627.0	45229.1	487.53 ug/L	487.53 ppb	12:44:11
1	Cu 324.752†	167728.6	190168.1	561.33 ug/L	561.33 ppb	12:44:11
1	Mn 257.610†	390489.4	457490.2	482.64 ug/L	482.64 ppb	12:44:11
1	Mo 202.031†	6132.4	7171.6	504.58 ug/L	504.58 ppb	12:44:31
1	Ni 231.604†	16336.8	19065.8	453.56 ug/L	453.56 ppb	12:44:31
1	P 214.914†	3979.9	4456.2	2433.7 ug/L	2433.7 ppb	12:44:31
1	Pb 220.353†	2669.3	3197.9	473.36 ug/L	473.36 ppb	12:44:31
1	S 181.975 Axial†	1808.8	2076.8	2673.5 ug/L	2673.5 ppb	12:44:31
1	Sb 206.836†	1441.5	1661.4	557.07 ug/L	557.07 ppb	12:44:31
1	Se 196.026†	2703.8	3195.2	2593.1 ug/L	2593.1 ppb	12:44:31
1	Si 251.611†	148723.3	173981.0	5320.7 ug/L	5320.7 ppb	12:44:11
1	Sn 189.927†	2185.5	2562.4	505.17 ug/L	505.17 ppb	12:44:31
1	Ti 334.940†	268750.5	316544.2	514.49 ug/L	514.49 ppb	12:44:11
1	Tl 190.801†	1290.2	1552.6	455.61 ug/L	455.61 ppb	12:44:31
1	U 409.014†	13951.0	18439.4	501.27 ug/L	501.27 ppb	12:44:11
1	V 292.402†	66970.7	79934.9	511.46 ug/L	511.46 ppb	12:44:11
1	Zn 213.857†	50427.5	58145.2	503.64 ug/L	503.64 ppb	12:44:11
1	SiO2†	149363.1	174715.9	11425 ug/L	11425 ppb	12:45:28
2	Sc Radial	4698.3	4698.3	88.5 %		12:43:53
2	Y RADIAL	4942.8	4942.8	87.14 %		12:43:53
2	Al 396.153Radial†	630368.9	712507.1	519470 ug/L	519470 ppb	12:43:48
2	Ca 317.933Radial†	282101.8	318831.1	484540 ug/L	484540 ppb	12:43:48
2	Fe 238.204 Radial†	20363.3	23006.0	189680 ug/L	189680 ppb	12:43:53
2	K 766.490 Radial†	29838.7	31077.3	5464.3 ug/L	5464.3 ppb	12:43:48
2	Mg 279.077 IEC†	13991.9	15811.5	494090 ug/L	494090 ppb	12:43:53
2	Na 589.592 Radial†	15707.1	19370.3	5644.9 ug/L	5644.9 ppb	12:43:53
2	Sr 421.552†	73314.1	82849.3	519.76 ug/L	519.76 ppb	12:43:48
2	Sc 361.383	751370.5	751370.5	86.139 %		12:44:37
2	Y 371.029	613258.8	613258.8	83.608 %		12:44:37
2	Ag 328.068†	43067.3	49618.1	277.27 ug/L	277.27 ppb	12:44:37
2	As 188.979†	992.5	1175.7	524.92 ug/L	524.92 ppb	12:44:57
2	B 249.677†	20985.6	24999.3	512.94 ug/L	512.94 ppb	12:44:37
2	Ba 233.527†	56540.4	65647.3	500.61 ug/L	500.61 ppb	12:44:37
2	Be 313.107†	584741.3	683158.5	243.73 ug/L	243.73 ppb	12:44:37
2	Cd 226.502†	39730.9	46326.8	471.39 ug/L	471.39 ppb	12:44:37
2	Co 228.616†	19572.2	22800.1	444.68 ug/L	444.68 ppb	12:44:57
2	Cr 267.716†	38729.3	44888.2	483.89 ug/L	483.89 ppb	12:44:37
2	Cu 324.752†	170052.8	190870.6	563.37 ug/L	563.37 ppb	12:44:37
2	Mn 257.610†	394057.0	456985.8	482.06 ug/L	482.06 ppb	12:44:37
2	Mo 202.031†	6066.2	7021.8	494.57 ug/L	494.57 ppb	12:44:57
2	Ni 231.604†	16196.2	18708.2	445.06 ug/L	445.06 ppb	12:44:57

2	P 214.914†	3972.5	4400.3	2403.8 ug/L	2403.8 ppb	12:44:57
2	Pb 220.353†	2601.5	3087.4	462.99 ug/L	462.99 ppb	12:44:57
2	S 181.975 Axial†	1800.4	2045.6	2629.8 ug/L	2629.8 ppb	12:44:57
2	Sb 206.836†	1430.7	1631.7	546.61 ug/L	546.61 ppb	12:44:57
2	Se 196.026†	2653.1	3104.2	2538.3 ug/L	2538.3 ppb	12:44:57
2	Si 251.611†	150297.8	174039.3	5322.6 ug/L	5322.6 ppb	12:44:37
2	Sn 189.927†	2170.0	2518.5	499.23 ug/L	499.23 ppb	12:44:57
2	Ti 334.940†	271473.0	316507.0	515.60 ug/L	515.60 ppb	12:44:37
2	Tl 190.801†	1278.4	1523.5	447.18 ug/L	447.18 ppb	12:44:57
2	U 409.014†	14043.1	18380.3	499.60 ug/L	499.60 ppb	12:44:37
2	V 292.402†	67530.2	79787.7	510.37 ug/L	510.37 ppb	12:44:37
2	Zn 213.857†	50874.9	58064.6	502.96 ug/L	502.96 ppb	12:44:37
2	SiO2†	149792.9	173437.7	11342 ug/L	11342 ppb	12:45:34
3	Sc Radial	4681.4	4681.4	88.2 %		12:44:03
3	Y RADIAL	4956.8	4956.8	87.39 %		12:44:03
3	Al 396.153Radial†	623530.1	707323.5	515690 ug/L	515690 ppb	12:43:58
3	Ca 317.933Radial†	279407.4	316926.6	481650 ug/L	481650 ppb	12:43:58
3	Fe 238.204 Radial†	20462.3	23201.4	191290 ug/L	191290 ppb	12:44:03
3	K 766.490 Radial†	29657.0	30993.1	5450.1 ug/L	5450.1 ppb	12:43:58
3	Mg 279.077 IEC†	13984.2	15859.9	495600 ug/L	495600 ppb	12:44:03
3	Na 589.592 Radial†	15737.6	19469.1	5673.7 ug/L	5673.7 ppb	12:44:03
3	Sr 421.552†	72522.5	82250.8	516.00 ug/L	516.00 ppb	12:43:58
3	Sc 361.383	759115.3	759115.3	87.027 %		12:45:03
3	Y 371.029	620741.2	620741.2	84.629 %		12:45:03
3	Ag 328.068†	43416.0	49508.8	277.34 ug/L	277.34 ppb	12:45:03
3	As 188.979†	997.9	1170.1	523.01 ug/L	523.01 ppb	12:45:23
3	B 249.677†	21258.3	25064.0	514.09 ug/L	514.09 ppb	12:45:03
3	Ba 233.527†	56904.8	65396.4	498.77 ug/L	498.77 ppb	12:45:03
3	Be 313.107†	590765.6	683155.3	243.73 ug/L	243.73 ppb	12:45:03
3	Cd 226.502†	39952.5	46110.9	468.94 ug/L	468.94 ppb	12:45:03
3	Co 228.616†	19826.1	22860.0	445.84 ug/L	445.84 ppb	12:45:23
3	Cr 267.716†	39148.3	44910.9	484.16 ug/L	484.16 ppb	12:45:03
3	Cu 324.752†	172049.8	191151.2	564.27 ug/L	564.27 ppb	12:45:03
3	Mn 257.610†	397093.4	455807.5	480.91 ug/L	480.91 ppb	12:45:03
3	Mo 202.031†	6156.0	7053.1	496.78 ug/L	496.78 ppb	12:45:23
3	Ni 231.604†	16370.1	18716.2	445.25 ug/L	445.25 ppb	12:45:23
3	P 214.914†	3990.4	4373.8	2386.1 ug/L	2386.1 ppb	12:45:23
3	Pb 220.353†	2616.4	3073.8	460.39 ug/L	460.39 ppb	12:45:23
3	S 181.975 Axial†	1833.2	2062.0	2652.4 ug/L	2652.4 ppb	12:45:23
3	Sb 206.836†	1434.1	1618.6	542.45 ug/L	542.45 ppb	12:45:23
3	Se 196.026†	2725.5	3155.9	2574.9 ug/L	2574.9 ppb	12:45:23
3	Si 251.611†	151565.4	173715.8	5312.6 ug/L	5312.6 ppb	12:45:03
3	Sn 189.927†	2181.3	2505.7	496.68 ug/L	496.68 ppb	12:45:23
3	Ti 334.940†	274002.9	316198.8	514.61 ug/L	514.61 ppb	12:45:03
3	Tl 190.801†	1286.6	1517.9	445.52 ug/L	445.52 ppb	12:45:23
3	U 409.014†	14294.3	18502.5	502.89 ug/L	502.89 ppb	12:45:03
3	V 292.402†	68172.4	79725.8	509.80 ug/L	509.80 ppb	12:45:03
3	Zn 213.857†	51305.3	57956.6	501.83 ug/L	501.83 ppb	12:45:03
3	SiO2†	150995.7	173045.7	11316 ug/L	11316 ppb	12:45:39

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	751411.2	86.144 %	0.8809			1.02%
Sc Radial	4716.4	88.8 %	0.88			0.99%
Y 371.029	614081.4	83.721 %	0.8574			1.02%
Y RADIAL	4968.3	87.59 %	0.576			0.66%
Ag 328.068†	49513.5	277.03 ug/L	0.476	277.03 ppb	0.476	0.17%
QC value within limits for Ag 328.068 Recovery = 110.81%						
Al 396.153Radial†	705708.2	514510 ug/L	5639.2	514510 ppb	5639.2	1.10%
QC value within limits for Al 396.153Radial Recovery = 102.90%						
As 188.979†	1183.7	528.29 ug/L	7.549	528.29 ppb	7.549	1.43%
QC value within limits for As 188.979 Recovery = 105.66%						
B 249.677†	24956.0	511.90 ug/L	2.850	511.90 ppb	2.850	0.56%
QC value within limits for B 249.677 Recovery = 102.38%						
Ba 233.527†	65614.3	500.38 ug/L	1.505	500.38 ppb	1.505	0.30%
QC value within limits for Ba 233.527 Recovery = 100.08%						
Be 313.107†	683336.2	243.79 ug/L	0.111	243.79 ppb	0.111	0.05%
QC value within limits for Be 313.107 Recovery = 97.52%						
Ca 317.933Radial†	316137.8	480450 ug/L	4806.1	480450 ppb	4806.1	1.00%

QC value within limits for Ca 317.933 Radial Recovery = 96.09%							
Cd 226.502†	46288.8	470.94 ug/L	1.813	470.94 ppb	1.813	0.38%	
QC value within limits for Cd 226.502 Recovery = 94.19%							
Co 228.616†	22962.3	447.86 ug/L	4.551	447.86 ppb	4.551	1.02%	
QC value within limits for Co 228.616 Recovery = 89.57%							
Cr 267.716†	45009.4	485.20 ug/L	2.029	485.20 ppb	2.029	0.42%	
QC value within limits for Cr 267.716 Recovery = 97.04%							
Cu 324.752†	190730.0	562.99 ug/L	1.505	562.99 ppb	1.505	0.27%	
QC value within limits for Cu 324.752 Recovery = 112.60%							
Fe 238.204 Radial†	23070.1	190210 ug/L	937.4	190210 ppb	937.4	0.49%	
QC value within limits for Fe 238.204 Radial Recovery = 95.10%							
K 766.490 Radial†	30864.5	5427.2 ug/L	52.51	5427.2 ppb	52.51	0.97%	
QC value within limits for K 766.490 Radial Recovery = 108.54%							
Mg 279.077 IEC†	15815.1	494200 ug/L	1344.4	494200 ppb	1344.4	0.27%	
QC value within limits for Mg 279.077 IEC Recovery = 98.84%							
Mn 257.610†	456761.2	481.87 ug/L	0.880	481.87 ppb	0.880	0.18%	
QC value within limits for Mn 257.610 Recovery = 96.37%							
Mo 202.031†	7082.2	498.64 ug/L	5.257	498.64 ppb	5.257	1.05%	
QC value within limits for Mo 202.031 Recovery = 99.73%							
Na 589.592 Radial†	19424.7	5660.8 ug/L	14.61	5660.8 ppb	14.61	0.26%	
QC value within limits for Na 589.592 Radial Recovery = 113.22%							
Ni 231.604†	18830.0	447.96 ug/L	4.858	447.96 ppb	4.858	1.08%	
QC value within limits for Ni 231.604 Recovery = 89.59%							
P 214.914†	4410.1	2407.9 ug/L	24.07	2407.9 ppb	24.07	1.00%	
QC value within limits for P 214.914 Recovery = 96.31%							
Pb 220.353†	3119.7	465.58 ug/L	6.864	465.58 ppb	6.864	1.47%	
QC value within limits for Pb 220.353 Recovery = 93.12%							
S 181.975 Axial†	2061.5	2651.9 ug/L	21.86	2651.9 ppb	21.86	0.82%	
QC value within limits for S 181.975 Axial Recovery = 106.08%							
Sb 206.836†	1637.2	548.71 ug/L	7.531	548.71 ppb	7.531	1.37%	
QC value within limits for Sb 206.836 Recovery = 109.74%							
Se 196.026†	3151.8	2568.8 ug/L	27.89	2568.8 ppb	27.89	1.09%	
QC value within limits for Se 196.026 Recovery = 102.75%							
Si 251.611†	173912.1	5318.6 ug/L	5.27	5318.6 ppb	5.27	0.10%	
QC value within limits for Si 251.611 Recovery = 106.37%							
Sn 189.927†	2528.9	500.36 ug/L	4.361	500.36 ppb	4.361	0.87%	
QC value within limits for Sn 189.927 Recovery = 100.07%							
Sr 421.552†	82036.9	514.65 ug/L	5.889	514.65 ppb	5.889	1.14%	
QC value within limits for Sr 421.552 Recovery = 102.93%							
Ti 334.940†	316416.7	514.90 ug/L	0.609	514.90 ppb	0.609	0.12%	
QC value within limits for Ti 334.940 Recovery = 102.98%							
Tl 190.801†	1531.3	449.44 ug/L	5.412	449.44 ppb	5.412	1.20%	
QC value within limits for Tl 190.801 Recovery = 89.89%							
U 409.014†	18440.7	501.25 ug/L	1.645	501.25 ppb	1.645	0.33%	
QC value within limits for U 409.014 Recovery = 100.25%							
V 292.402†	79816.1	510.54 ug/L	0.844	510.54 ppb	0.844	0.17%	
QC value within limits for V 292.402 Recovery = 102.11%							
Zn 213.857†	58055.5	502.81 ug/L	0.917	502.81 ppb	0.917	0.18%	
QC value within limits for Zn 213.857 Recovery = 100.56%							
SiO2†	173733.1	11361 ug/L	57.0	11361 ppb	57.0	0.50%	
QC value within limits for SiO2 Recovery = 106.23%							
All analyte(s) passed QC.							

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

Autosampler Location: 15
 Date Collected: 1/13/2010 12:47:49
 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	4639.2	4639.2	87.4 %		12:49:47
1	Y RADIAL	4935.4	4935.4	87.01 %		12:49:47
1	Al 396.153Radial†	603973.6	691362.5	504080 ug/L	504080 ppb	12:49:42
1	Ca 317.933Radial†	272744.7	312178.9	474430 ug/L	474430 ppb	12:49:42
1	Fe 238.204 Radial†	46959.9	53743.0	443070 ug/L	443070 ppb	12:49:47
1	K 766.490 Radial†	2957.9	737.2	-236.55 ug/L	-236.55 ppb	12:49:42
1	Mg 279.077 IEC†	13476.4	15422.8	481670 ug/L	481670 ppb	12:49:47
1	Na 589.592 Radial†	1623451.9	1859920.8	542020 ug/L	542020 ppb	12:49:42
1	Sr 421.552†	746.3	838.6	1.7548 ug/L	1.7548 ppb	12:49:47
1	Sc 361.383	741206.2	741206.2	84.974 %		12:50:15
1	Y 371.029	607408.3	607408.3	82.811 %		12:50:15
1	Ag 328.068†	-23574.3	-28122.3	0.2053 ug/L	0.2053 ppb	12:50:15
1	As 188.979†	-211.7	-225.7	12.019 ug/L	12.019 ppb	12:50:35
1	B 249.677†	1680.1	2614.0	-14.981 ug/L	-14.981 ppb	12:50:15
1	Ba 233.527†	-1402.0	-1641.1	1.2050 ug/L	1.2050 ppb	12:50:35
1	Be 313.107†	-11106.8	-8746.4	-3.1616 ug/L	-3.1616 ppb	12:50:15
1	Cd 226.502†	3363.4	4160.8	1.1244 ug/L	1.1244 ppb	12:50:35
1	Co 228.616†	195.0	307.9	-0.4059 ug/L	-0.4059 ppb	12:50:35
1	Cr 267.716†	48.0	-16.7	2.7270 ug/L	2.7270 ppb	12:50:35
1	Cu 324.752†	952.4	-5425.2	-0.3113 ug/L	-0.3113 ppb	12:50:15
1	Mn 257.610†	-21938.1	-26297.8	-3.7786 ug/L	-3.7786 ppb	12:50:15
1	Mo 202.031†	-481.7	-587.4	0.3812 ug/L	0.3812 ppb	12:50:35
1	Ni 231.604†	285.5	241.8	5.7510 ug/L	5.7510 ppb	12:50:35
1	P 214.914†	544.1	428.8	18.086 ug/L	18.086 ppb	12:50:35
1	Pb 220.353†	-574.9	-609.2	3.1636 ug/L	3.1636 ppb	12:50:35
1	S 181.975 Axial†	112.0	87.3	21.889 ug/L	21.889 ppb	12:50:35
1	Sb 206.836†	56.1	36.7	7.8747 ug/L	7.8747 ppb	12:50:35
1	Se 196.026†	-2096.3	-2442.8	-9.2780 ug/L	-9.2780 ppb	12:50:35
1	Si 251.611†	-334.4	-836.9	-25.135 ug/L	-25.135 ppb	12:50:35
1	Sn 189.927†	-383.4	-451.9	3.7562 ug/L	3.7562 ppb	12:50:35
1	Ti 334.940†	-14504.7	-15719.2	-6.5179 ug/L	-6.5179 ppb	12:50:15
1	Tl 190.801†	-110.5	-90.6	-26.793 ug/L	-26.793 ppb	12:50:35
1	U 409.014†	431836.4	510276.9	14449 ug/L	14449 ppb	12:50:15
1	V 292.402†	2743.2	4619.2	2.1857 ug/L	2.1857 ppb	12:50:35
1	Zn 213.857†	5734.8	5752.2	9.0086 ug/L	9.0086 ppb	12:50:35
1	SiO2†	-452.2	-991.1	-63.804 ug/L	-63.804 ppb	12:51:32
2	Sc Radial	4616.1	4616.1	86.9 %		12:49:57
2	Y RADIAL	4927.3	4927.3	86.86 %		12:49:57
2	Al 396.153Radial†	595646.6	685253.6	499620 ug/L	499620 ppb	12:49:52
2	Ca 317.933Radial†	269805.1	310364.5	471670 ug/L	471670 ppb	12:49:52
2	Fe 238.204 Radial†	46730.7	53749.2	443120 ug/L	443120 ppb	12:49:57
2	K 766.490 Radial†	2847.3	627.0	-253.26 ug/L	-253.26 ppb	12:49:52
2	Mg 279.077 IEC†	13439.3	15457.5	482750 ug/L	482750 ppb	12:49:57
2	Na 589.592 Radial†	1597597.8	1839506.9	536070 ug/L	536070 ppb	12:49:52
2	Sr 421.552†	746.1	842.6	1.8012 ug/L	1.8012 ppb	12:49:57
2	Sc 361.383	735152.2	735152.2	84.280 %		12:50:41
2	Y 371.029	602226.5	602226.5	82.104 %		12:50:41
2	Ag 328.068†	-23402.0	-28146.4	0.1359 ug/L	0.1359 ppb	12:50:41
2	As 188.979†	-195.0	-208.0	19.235 ug/L	19.235 ppb	12:51:01
2	B 249.677†	1595.2	2529.5	-16.834 ug/L	-16.834 ppb	12:50:41
2	Ba 233.527†	-1446.2	-1707.2	0.7123 ug/L	0.7123 ppb	12:51:01
2	Be 313.107†	-11184.0	-8945.7	-3.2314 ug/L	-3.2314 ppb	12:50:41
2	Cd 226.502†	3355.9	4184.4	1.3742 ug/L	1.3742 ppb	12:51:01
2	Co 228.616†	226.7	347.4	0.3688 ug/L	0.3688 ppb	12:51:01
2	Cr 267.716†	-39.2	-119.7	1.6187 ug/L	1.6187 ppb	12:51:01
2	Cu 324.752†	923.3	-5450.4	-0.3959 ug/L	-0.3959 ppb	12:50:41
2	Mn 257.610†	-21525.2	-26020.6	-3.5245 ug/L	-3.5245 ppb	12:50:41
2	Mo 202.031†	-469.2	-577.2	1.0384 ug/L	1.0384 ppb	12:51:01
2	Ni 231.604†	290.1	250.0	5.9465 ug/L	5.9465 ppb	12:51:01

2	P 214.914†	538.1	427.0	15.912 ug/L	15.912 ppb	12:51:01
2	Pb 220.353†	-556.7	-593.2	4.0248 ug/L	4.0248 ppb	12:51:01
2	S 181.975 Axial†	88.8	60.9	-12.490 ug/L	-12.490 ppb	12:51:01
2	Sb 206.836†	41.2	19.7	2.3840 ug/L	2.3840 ppb	12:51:01
2	Se 196.026†	-2113.6	-2483.7	-34.194 ug/L	-34.194 ppb	12:51:01
2	Si 251.611†	-394.7	-911.7	-27.434 ug/L	-27.434 ppb	12:51:01
2	Sn 189.927†	-377.9	-449.1	3.8028 ug/L	3.8028 ppb	12:51:01
2	Ti 334.940†	-14151.2	-15440.4	-6.5543 ug/L	-6.5543 ppb	12:50:41
2	Tl 190.801†	-110.7	-91.9	-27.172 ug/L	-27.172 ppb	12:51:01
2	U 409.014†	429068.9	511178.2	14475 ug/L	14475 ppb	12:50:41
2	V 292.402†	2861.1	4785.7	3.3463 ug/L	3.3463 ppb	12:51:01
2	Zn 213.857†	5774.7	5855.1	9.9326 ug/L	9.9326 ppb	12:51:01
2	SiO2†	-386.2	-917.1	-58.980 ug/L	-58.980 ppb	12:51:37
3	Sc Radial	4753.2	4753.2	89.5 %		12:50:08
3	Y RADIAL	5039.4	5039.4	88.84 %		12:50:08
3	Al 396.153Radial†	595734.9	665581.5	485280 ug/L	485280 ppb	12:50:03
3	Ca 317.933Radial†	269644.6	301229.8	457790 ug/L	457790 ppb	12:50:03
3	Fe 238.204 Radial†	47648.1	53223.1	438780 ug/L	438780 ppb	12:50:08
3	K 766.490 Radial†	2944.5	641.0	-239.80 ug/L	-239.80 ppb	12:50:03
3	Mg 279.077 IEC†	13735.8	15342.7	479170 ug/L	479170 ppb	12:50:08
3	Na 589.592 Radial†	1595610.5	1784259.1	519970 ug/L	519970 ppb	12:50:03
3	Sr 421.552†	836.1	918.4	2.3834 ug/L	2.3834 ppb	12:50:08
3	Sc 361.383	727949.3	727949.3	83.454 %		12:51:06
3	Y 371.029	596375.6	596375.6	81.307 %		12:51:06
3	Ag 328.068†	-23271.9	-28265.2	-1.6155 ug/L	-1.6155 ppb	12:51:06
3	As 188.979†	-199.6	-215.8	15.057 ug/L	15.057 ppb	12:51:26
3	B 249.677†	1566.6	2514.0	-16.465 ug/L	-16.465 ppb	12:51:06
3	Ba 233.527†	-1431.8	-1706.8	0.5828 ug/L	0.5828 ppb	12:51:26
3	Be 313.107†	-11119.7	-8999.8	-3.2483 ug/L	-3.2483 ppb	12:51:06
3	Cd 226.502†	3358.2	4226.6	2.2703 ug/L	2.2703 ppb	12:51:26
3	Co 228.616†	202.8	321.5	-0.0822 ug/L	-0.0822 ppb	12:51:26
3	Cr 267.716†	35.0	-31.3	2.4752 ug/L	2.4752 ppb	12:51:26
3	Cu 324.752†	941.3	-5418.0	-0.5363 ug/L	-0.5363 ppb	12:51:06
3	Mn 257.610†	-21069.9	-25727.7	-3.4963 ug/L	-3.4963 ppb	12:51:06
3	Mo 202.031†	-483.2	-599.6	-0.9707 ug/L	-0.9707 ppb	12:51:26
3	Ni 231.604†	272.0	231.7	5.5105 ug/L	5.5105 ppb	12:51:26
3	P 214.914†	532.2	426.2	15.278 ug/L	15.278 ppb	12:51:26
3	Pb 220.353†	-551.9	-594.0	1.0135 ug/L	1.0135 ppb	12:51:26
3	S 181.975 Axial†	96.9	71.6	4.4622 ug/L	4.4622 ppb	12:51:26
3	Sb 206.836†	56.4	38.4	8.7407 ug/L	8.7407 ppb	12:51:26
3	Se 196.026†	-2117.6	-2513.3	-67.170 ug/L	-67.170 ppb	12:51:26
3	Si 251.611†	-431.3	-960.3	-28.903 ug/L	-28.903 ppb	12:51:26
3	Sn 189.927†	-396.9	-476.3	-2.9350 ug/L	-2.9350 ppb	12:51:26
3	Ti 334.940†	-13470.0	-14790.3	-7.1180 ug/L	-7.1180 ppb	12:51:06
3	Tl 190.801†	-128.0	-113.9	-33.577 ug/L	-33.577 ppb	12:51:26
3	U 409.014†	425117.6	511481.0	14484 ug/L	14484 ppb	12:51:06
3	V 292.402†	2834.8	4787.8	3.9160 ug/L	3.9160 ppb	12:51:26
3	Zn 213.857†	5773.3	5921.3	10.955 ug/L	10.955 ppb	12:51:26
3	SiO2†	-450.6	-998.9	-64.290 ug/L	-64.290 ppb	12:51:42

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	734769.2	84.236 %	0.7609			0.90%
Sc Radial	4669.5	87.9 %	1.38			1.57%
Y 371.029	602003.4	82.074 %	0.7525			0.92%
Y RADIAL	4967.4	87.57 %	1.102			1.26%
Ag 328.068†	-28178.0	-0.4248 ug/L	1.03180	-0.4248 ppb	1.03180	242.89%
Al 396.153Radial†	680732.5	496330 ug/L	9822.5	496330 ppb	9822.5	1.98%
QC value within limits for Al 396.153Radial Recovery = 99.27%						
As 188.979†	-216.5	15.437 ug/L	3.6230	15.437 ppb	3.6230	23.47%
B 249.677†	2552.5	-16.093 ug/L	0.9808	-16.093 ppb	0.9808	6.09%
Ba 233.527†	-1685.0	0.8334 ug/L	0.32830	0.8334 ppb	0.32830	39.39%
Be 313.107†	-8897.3	-3.2137 ug/L	0.04598	-3.2137 ppb	0.04598	1.43%
Ca 317.933Radial†	307924.4	467970 ug/L	8918.2	467970 ppb	8918.2	1.91%
QC value within limits for Ca 317.933Radial Recovery = 93.59%						
Cd 226.502†	4190.6	1.5896 ug/L	0.60254	1.5896 ppb	0.60254	37.90%
Co 228.616†	325.6	-0.0398 ug/L	0.38909	-0.0398 ppb	0.38909	978.34%
Cr 267.716†	-55.9	2.2736 ug/L	0.58102	2.2736 ppb	0.58102	25.55%
Cu 324.752†	-5431.2	-0.4145 ug/L	0.11364	-0.4145 ppb	0.11364	27.42%

Fe 238.204 Radial†	53571.7	441660 ug/L	2489.7	441660 ppb	2489.7	0.56%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.33%						
K 766.490 Radial†	668.4	-243.20 ug/L	8.863	-243.20 ppb	8.863	3.64%
Mg 279.077 IEC†	15407.6	481200 ug/L	1838.2	481200 ppb	1838.2	0.38%
QC value within limits for Mg 279.077 IEC Recovery = 96.24%						
Mn 257.610†	-26015.4	-3.5998 ug/L	0.15547	-3.5998 ppb	0.15547	4.32%
Mo 202.031†	-588.1	0.1496 ug/L	1.02438	0.1496 ppb	1.02438	684.72%
Na 589.592 Radial†	1827895.6	532690 ug/L	11407.5	532690 ppb	11407.5	2.14%
QC value within limits for Na 589.592 Radial Recovery = 106.54%						
Ni 231.604†	241.1	5.7360 ug/L	0.21838	5.7360 ppb	0.21838	3.81%
P 214.914†	427.3	16.425 ug/L	1.4727	16.425 ppb	1.4727	8.97%
Pb 220.353†	-598.8	2.7340 ug/L	1.55092	2.7340 ppb	1.55092	56.73%
S 181.975 Axial†	73.2	4.6204 ug/L	17.18968	4.6204 ppb	17.18968	372.04%
Sb 206.836†	31.6	6.3331 ug/L	3.44733	6.3331 ppb	3.44733	54.43%
Se 196.026†	-2480.0	-36.881 ug/L	29.0395	-36.881 ppb	29.0395	78.74%
Si 251.611†	-903.0	-27.157 ug/L	1.8989	-27.157 ppb	1.8989	6.99%
Sn 189.927†	-459.1	1.5413 ug/L	3.87666	1.5413 ppb	3.87666	251.52%
Sr 421.552†	866.5	1.9798 ug/L	0.35027	1.9798 ppb	0.35027	17.69%
Ti 334.940†	-15316.6	-6.7301 ug/L	0.33646	-6.7301 ppb	0.33646	5.00%
Tl 190.801†	-98.8	-29.181 ug/L	3.8117	-29.181 ppb	3.8117	13.06%
U 409.014†	510978.7	14470 ug/L	18.0	14470 ppb	18.0	0.12%
QC value within limits for U 409.014 Recovery = 96.46%						
V 292.402†	4730.9	3.1493 ug/L	0.88181	3.1493 ppb	0.88181	28.00%
Zn 213.857†	5842.8	9.9654 ug/L	0.97350	9.9654 ppb	0.97350	9.77%
SiO2†	-969.0	-62.358 ug/L	2.9355	-62.358 ppb	2.9355	4.71%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 1/13/2010 12:53:52

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	5125.8	5125.8	96.5 %		12:55:49
1	Y RADIAL	5366.1	5366.1	94.60 %		12:55:49
1	Al 396.153Radial†	583.5	621.2	-25.020 ug/L	-25.020 ppb	12:55:49
1	Ca 317.933Radial†	34.4	14.1	21.461 ug/L	21.461 ppb	12:56:09
1	Fe 238.204 Radial†	-20.4	-31.3	26.283 ug/L	26.283 ppb	12:56:09
1	K 766.490 Radial†	1580280.5	1634538.0	296070 ug/L	296070 ppb	12:55:44
1	Mg 279.077 IEC†	-5.4	-8.8	-172.39 ug/L	-172.39 ppb	12:56:09
1	Na 589.592 Radial†	-310.9	1294.9	377.35 ug/L	377.35 ppb	12:55:49
1	Sr 421.552†	1484193.1	1537623.4	9713.4 ug/L	9713.4 ppb	12:55:44
1	Sc 361.383	828349.3	828349.3	94.964 %		12:57:27
1	Y 371.029	675727.0	675727.0	92.125 %		12:57:27
1	Ag 328.068†	-8224.7	-9040.1	0.0362 ug/L	0.0362 ppb	12:57:32
1	As 188.979†	23541.0	24812.8	10138 ug/L	10138 ppb	12:57:32
1	B 249.677†	217990.2	230186.9	4991.3 ug/L	4991.3 ppb	12:57:27
1	Ba 233.527†	1781669.8	1876159.7	14131 ug/L	14131 ppb	12:57:27
1	Be 313.107†	7741764.3	8156630.7	2919.4 ug/L	2919.4 ppb	12:57:20
1	Cd 226.502†	866197.4	912334.0	9667.9 ug/L	9667.9 ppb	12:57:27
1	Co 228.616†	460343.4	484833.6	9510.2 ug/L	9510.2 ppb	12:57:32
1	Cr 267.716†	2125298.8	2237929.1	23929 ug/L	23929 ppb	12:57:27
1	Cu 324.752†	6696312.4	7044868.5	20434 ug/L	20434 ppb	12:57:20
1	Mn 257.610†	8530670.8	8982567.7	9504.5 ug/L	9504.5 ppb	12:57:20
1	Mo 202.031†	138651.3	145983.4	9856.2 ug/L	9856.2 ppb	12:57:32
1	Ni 231.604†	389648.6	410217.3	9759.0 ug/L	9759.0 ppb	12:57:27
1	P 214.914†	31112.4	32550.8	14778 ug/L	14778 ppb	12:57:32
1	Pb 220.353†	197858.6	208418.3	24323 ug/L	24323 ppb	12:57:32
1	S 181.975 Axial†	37425.3	39365.4	52482 ug/L	52482 ppb	12:57:32
1	Sb 206.836†	30263.9	31839.5	10893 ug/L	10893 ppb	12:57:32
1	Se 196.026†	16008.8	16881.9	10301 ug/L	10301 ppb	12:57:32
1	Si 251.611†	1501492.5	1580672.5	48273 ug/L	48273 ppb	12:57:27
1	Sn 189.927†	59479.9	62633.3	10505 ug/L	10505 ppb	12:57:32
1	Ti 334.940†	6108529.2	6433811.9	9980.0 ug/L	9980.0 ppb	12:57:20
1	Tl 190.801†	31485.4	33194.5	9735.9 ug/L	9735.9 ppb	12:57:32
1	U 409.014†	-810.7	1223.7	-18.716 ug/L	-18.716 ppb	12:57:32
1	V 292.402†	1449162.4	1527401.7	10102 ug/L	10102 ppb	12:57:27
1	Zn 213.857†	1486170.8	1563985.0	14050 ug/L	14050 ppb	12:57:27
1	SiO2†	1501441.0	1580602.7	103210 ug/L	103210 ppb	12:58:19
2	Sc Radial	5076.0	5076.0	95.6 %		12:56:20
2	Y RADIAL	5347.9	5347.9	94.28 %		12:56:20
2	Al 396.153Radial†	593.0	637.1	-16.389 ug/L	-16.389 ppb	12:56:20
2	Ca 317.933Radial†	27.7	7.4	11.282 ug/L	11.282 ppb	12:56:40
2	Fe 238.204 Radial†	-22.0	-33.2	12.502 ug/L	12.502 ppb	12:56:40
2	K 766.490 Radial†	1589438.5	1660170.0	300710 ug/L	300710 ppb	12:56:15
2	Mg 279.077 IEC†	-7.5	-11.1	-242.07 ug/L	-242.07 ppb	12:56:40
2	Na 589.592 Radial†	-389.0	1210.0	352.62 ug/L	352.62 ppb	12:56:20
2	Sr 421.552†	1493468.3	1562402.0	9870.0 ug/L	9870.0 ppb	12:56:15
2	Sc 361.383	830448.0	830448.0	95.205 %		12:57:46
2	Y 371.029	677266.0	677266.0	92.335 %		12:57:46
2	Ag 328.068†	-8198.2	-8990.4	0.2680 ug/L	0.2680 ppb	12:57:52
2	As 188.979†	23848.2	25072.9	10243 ug/L	10243 ppb	12:57:52
2	B 249.677†	219355.9	231041.2	5009.8 ug/L	5009.8 ppb	12:57:46
2	Ba 233.527†	1787915.7	1877978.8	14145 ug/L	14145 ppb	12:57:46
2	Be 313.107†	7723050.2	8116371.7	2905.0 ug/L	2905.0 ppb	12:57:40
2	Cd 226.502†	869587.7	913590.0	9681.2 ug/L	9681.2 ppb	12:57:46
2	Co 228.616†	463922.1	487367.5	9560.1 ug/L	9560.1 ppb	12:57:52
2	Cr 267.716†	2132676.1	2240022.2	23951 ug/L	23951 ppb	12:57:46
2	Cu 324.752†	6695193.1	7025872.7	20379 ug/L	20379 ppb	12:57:40
2	Mn 257.610†	8532959.0	8962269.4	9483.0 ug/L	9483.0 ppb	12:57:40
2	Mo 202.031†	139847.8	146871.2	9916.2 ug/L	9916.2 ppb	12:57:52
2	Ni 231.604†	391399.1	411019.0	9778.1 ug/L	9778.1 ppb	12:57:46

2	P 214.914†	31437.5	32809.5	14938 ug/L	14938 ppb	12:57:52
2	Pb 220.353†	199631.8	209754.2	24479 ug/L	24479 ppb	12:57:52
2	S 181.975 Axial†	37682.2	39535.7	52709 ug/L	52709 ppb	12:57:52
2	Sb 206.836†	30547.2	32056.6	10967 ug/L	10967 ppb	12:57:52
2	Se 196.026†	16130.5	16967.2	10353 ug/L	10353 ppb	12:57:52
2	Si 251.611†	1508295.1	1583821.9	48368 ug/L	48368 ppb	12:57:46
2	Sn 189.927†	60008.6	63030.4	10572 ug/L	10572 ppb	12:57:52
2	Ti 334.940†	6106495.9	6415420.2	9951.5 ug/L	9951.5 ppb	12:57:40
2	Tl 190.801†	31697.1	33333.1	9775.7 ug/L	9775.7 ppb	12:57:52
2	U 409.014†	-780.0	1258.1	-17.787 ug/L	-17.787 ppb	12:57:52
2	V 292.402†	1453412.2	1528009.0	10107 ug/L	10107 ppb	12:57:46
2	Zn 213.857†	1491962.1	1566113.0	14069 ug/L	14069 ppb	12:57:46
2	SiO2†	1517416.1	1593386.9	104050 ug/L	104050 ppb	12:58:26
3	Sc Radial	5032.2	5032.2	94.8 %		12:56:50
3	Y RADIAL	5280.7	5280.7	93.09 %		12:56:50
3	Al 396.153Radial†	593.9	643.5	-2.4107 ug/L	-2.4107 ppb	12:56:50
3	Ca 317.933Radial†	30.3	10.4	15.807 ug/L	15.807 ppb	12:57:10
3	Fe 238.204 Radial†	-23.5	-34.9	-7.3577 ug/L	-7.3577 ppb	12:57:10
3	K 766.490 Radial†	1597668.6	1683342.2	304910 ug/L	304910 ppb	12:56:45
3	Mg 279.077 IEC†	-3.8	-7.2	-124.34 ug/L	-124.34 ppb	12:57:10
3	Na 589.592 Radial†	-544.1	1042.8	303.90 ug/L	303.90 ppb	12:56:50
3	Sr 421.552†	1497272.5	1580028.9	9981.3 ug/L	9981.3 ppb	12:56:45
3	Sc 361.383	841976.9	841976.9	96.526 %		12:58:06
3	Y 371.029	686373.2	686373.2	93.576 %		12:58:06
3	Ag 328.068†	-8216.3	-8891.2	0.6068 ug/L	0.6068 ppb	12:58:11
3	As 188.979†	23693.0	24569.0	10037 ug/L	10037 ppb	12:58:11
3	B 249.677†	222416.6	231057.2	5010.6 ug/L	5010.6 ppb	12:58:06
3	Ba 233.527†	1806217.7	1871225.1	14094 ug/L	14094 ppb	12:58:06
3	Be 313.107†	7673162.1	7953613.0	2846.8 ug/L	2846.8 ppb	12:58:00
3	Cd 226.502†	878867.7	910697.2	9650.5 ug/L	9650.5 ppb	12:58:06
3	Co 228.616†	461503.4	478189.5	9380.0 ug/L	9380.0 ppb	12:58:11
3	Cr 267.716†	2155839.2	2233346.1	23880 ug/L	23880 ppb	12:58:06
3	Cu 324.752†	6638941.1	6871304.0	19930 ug/L	19930 ppb	12:58:00
3	Mn 257.610†	8482624.0	8787399.3	9298.0 ug/L	9298.0 ppb	12:58:00
3	Mo 202.031†	139054.6	144038.1	9724.9 ug/L	9724.9 ppb	12:58:11
3	Ni 231.604†	395624.6	409767.3	9748.4 ug/L	9748.4 ppb	12:58:06
3	P 214.914†	31216.5	32128.3	14633 ug/L	14633 ppb	12:58:11
3	Pb 220.353†	198716.0	205934.3	24034 ug/L	24034 ppb	12:58:11
3	S 181.975 Axial†	37491.0	38795.6	51722 ug/L	51722 ppb	12:58:11
3	Sb 206.836†	30395.7	31460.3	10763 ug/L	10763 ppb	12:58:11
3	Se 196.026†	16043.6	16645.1	10157 ug/L	10157 ppb	12:58:11
3	Si 251.611†	1527645.3	1582175.7	48320 ug/L	48320 ppb	12:58:06
3	Sn 189.927†	59582.8	61726.2	10353 ug/L	10353 ppb	12:58:11
3	Ti 334.940†	6070874.6	6290691.5	9757.8 ug/L	9757.8 ppb	12:58:00
3	Tl 190.801†	31532.5	32706.7	9591.6 ug/L	9591.6 ppb	12:58:11
3	U 409.014†	-713.8	1337.9	-15.357 ug/L	-15.357 ppb	12:58:11
3	V 292.402†	1470095.9	1524389.7	10081 ug/L	10081 ppb	12:58:06
3	Zn 213.857†	1506730.4	1559954.9	14014 ug/L	14014 ppb	12:58:06
3	SiO2†	1518106.7	1572278.3	102670 ug/L	102670 ppb	12:58:33

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833591.4	95.565 %	0.8412			0.88%
Sc Radial	5078.0	95.6 %	0.88			0.92%
Y 371.029	679788.7	92.679 %	0.7845			0.85%
Y RADIAL	5331.5	93.99 %	0.793			0.84%
Ag 328.068†	-8973.9	0.3037 ug/L	0.28701	0.3037 ppb	0.28701	94.51%
Al 396.153Radial†	633.9	-14.607 ug/L	11.4095	-14.607 ppb	11.4095	78.11%
As 188.979†	24818.2	10139 ug/L	102.9	10139 ppb	102.9	1.02%
QC value within limits for As 188.979 Recovery = 101.39%						
B 249.677†	230761.8	5003.9 ug/L	10.93	5003.9 ppb	10.93	0.22%
QC value within limits for B 249.677 Recovery = 100.08%						
Ba 233.527†	1875121.2	14124 ug/L	26.3	14124 ppb	26.3	0.19%
QC value within limits for Ba 233.527 Recovery = 94.16%						
Be 313.107†	8075538.5	2890.4 ug/L	38.45	2890.4 ppb	38.45	1.33%
QC value within limits for Be 313.107 Recovery = 96.35%						
Ca 317.933Radial†	10.6	16.183 ug/L	5.0999	16.183 ppb	5.0999	31.51%
Cd 226.502†	912207.1	9666.5 ug/L	15.37	9666.5 ppb	15.37	0.16%
QC value within limits for Cd 226.502 Recovery = 96.67%						

Co 228.616†	483463.5	9483.5 ug/L	92.98	9483.5 ppb	92.98	0.98%
QC value within limits for Co 228.616 Recovery = 94.83%						
Cr 267.716†	2237099.1	23920 ug/L	36.5	23920 ppb	36.5	0.15%
QC value within limits for Cr 267.716 Recovery = 95.68%						
Cu 324.752†	6980681.7	20247 ug/L	276.1	20247 ppb	276.1	1.36%
QC value within limits for Cu 324.752 Recovery = 101.24%						
Fe 238.204 Radial†	-33.1	10.476 ug/L	16.9117	10.476 ppb	16.9117	161.44%
K 766.490 Radial†	1659350.0	300560 ug/L	4422.2	300560 ppb	4422.2	1.47%
QC value within limits for K 766.490 Radial Recovery = 100.19%						
Mg 279.077 IEC†	-9.0	-179.60 ug/L	59.193	-179.60 ppb	59.193	32.96%
Mn 257.610†	8910745.5	9428.5 ug/L	113.54	9428.5 ppb	113.54	1.20%
QC value within limits for Mn 257.610 Recovery = 94.29%						
Mo 202.031†	145630.9	9832.4 ug/L	97.84	9832.4 ppb	97.84	1.00%
QC value within limits for Mo 202.031 Recovery = 98.32%						
Na 589.592 Radial†	1182.6	344.62 ug/L	37.375	344.62 ppb	37.375	10.85%
Ni 231.604†	410334.5	9761.8 ug/L	15.04	9761.8 ppb	15.04	0.15%
QC value within limits for Ni 231.604 Recovery = 97.62%						
P 214.914†	32496.2	14783 ug/L	152.6	14783 ppb	152.6	1.03%
QC value within limits for P 214.914 Recovery = 98.56%						
Pb 220.353†	208035.6	24279 ug/L	226.2	24279 ppb	226.2	0.93%
QC value within limits for Pb 220.353 Recovery = 97.12%						
S 181.975 Axial†	39232.2	52304 ug/L	516.7	52304 ppb	516.7	0.99%
QC value within limits for S 181.975 Axial Recovery = 104.61%						
Sb 206.836†	31785.5	10874 ug/L	103.2	10874 ppb	103.2	0.95%
QC value within limits for Sb 206.836 Recovery = 108.74%						
Se 196.026†	16831.4	10271 ug/L	101.9	10271 ppb	101.9	0.99%
QC value within limits for Se 196.026 Recovery = 102.71%						
Si 251.611†	1582223.4	48321 ug/L	47.8	48321 ppb	47.8	0.10%
QC value within limits for Si 251.611 Recovery = 96.64%						
Sn 189.927†	62463.3	10476 ug/L	112.1	10476 ppb	112.1	1.07%
QC value within limits for Sn 189.927 Recovery = 104.76%						
Sr 421.552†	1560018.1	9854.9 ug/L	134.57	9854.9 ppb	134.57	1.37%
QC value within limits for Sr 421.552 Recovery = 98.55%						
Ti 334.940†	6379974.5	9896.4 ug/L	120.88	9896.4 ppb	120.88	1.22%
QC value within limits for Ti 334.940 Recovery = 98.96%						
Tl 190.801†	33078.1	9701.1 ug/L	96.86	9701.1 ppb	96.86	1.00%
QC value within limits for Tl 190.801 Recovery = 97.01%						
U 409.014†	1273.2	-17.286 ug/L	1.7343	-17.286 ppb	1.7343	10.03%
V 292.402†	1526600.1	10097 ug/L	13.9	10097 ppb	13.9	0.14%
QC value within limits for V 292.402 Recovery = 100.97%						
Zn 213.857†	1563351.0	14044 ug/L	27.8	14044 ppb	27.8	0.20%
QC value within limits for Zn 213.857 Recovery = 93.63%						
SiO2†	1582089.3	103310 ug/L	693.6	103310 ppb	693.6	0.67%
QC value within limits for SiO2 Recovery = 96.55%						
All analyte(s) passed QC.						

=====
Analysis Begun

Start Time: 1/13/2010 13:15:38

Plasma On Time: 1/11/2010 06:15:31

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\011310.sif

Batch ID:

Results Data Set: 011310

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 1/13/2010 11:47:24

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 396.153Radial	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: 7

Sample ID: CCV

Date Collected: 1/13/2010 13:15:39

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	5210.7	5210.7	98.1 %		13:17:32
1	Y RADIAL	5507.7	5507.7	97.10 %		13:17:32
1	Al 396.153Radial†	6602.2	6745.2	4893.9 ug/L	4893.9 ppb	13:17:32

1	Ca 317.933Radial†	3249.1	3289.7	4999.5 ug/L	4999.5 ppb	13:17:52
1	Fe 238.204 Radial†	624.7	626.5	5179.6 ug/L	5179.6 ppb	13:17:52
1	K 766.490 Radial†	30424.3	28357.4	5130.2 ug/L	5130.2 ppb	13:17:32
1	Mg 279.077 IEC†	164.5	164.5	5140.9 ug/L	5140.9 ppb	13:17:52
1	Na 589.592 Radial†	33364.5	35619.3	10380 ug/L	10380 ppb	13:17:32
1	Sr 421.552†	78956.3	80450.2	508.18 ug/L	508.18 ppb	13:17:32
1	Sc 361.383	865826.9	865826.9	99.261 %		13:18:49
1	Y 371.029	715715.2	715715.2	97.577 %		13:18:49
1	Ag 328.068†	111992.9	112447.9	503.48 ug/L	503.48 ppb	13:18:55
1	As 188.979†	1191.9	1224.2	501.33 ug/L	501.33 ppb	13:19:15
1	B 249.677†	22581.4	23386.4	507.59 ug/L	507.59 ppb	13:18:55
1	Ba 233.527†	65774.4	66273.2	499.64 ug/L	499.64 ppb	13:18:55
1	Be 313.107†	1358626.6	1373071.2	488.74 ug/L	488.74 ppb	13:18:49
1	Cd 226.502†	46563.6	47113.1	498.81 ug/L	498.81 ppb	13:18:55
1	Co 228.616†	25191.3	25457.3	499.53 ug/L	499.53 ppb	13:18:55
1	Cr 267.716†	46069.7	46339.6	495.79 ug/L	495.79 ppb	13:18:55
1	Cu 324.752†	176590.2	171359.6	497.02 ug/L	497.02 ppb	13:18:55
1	Mn 257.610†	461585.2	464543.1	491.84 ug/L	491.84 ppb	13:18:49
1	Mo 202.031†	7318.6	7352.6	496.88 ug/L	496.88 ppb	13:19:15
1	Ni 231.604†	20863.6	20924.8	497.79 ug/L	497.79 ppb	13:18:55
1	P 214.914†	4472.9	4294.8	2375.3 ug/L	2375.3 ppb	13:19:15
1	Pb 220.353†	4145.1	4243.3	496.55 ug/L	496.55 ppb	13:19:15
1	S 181.975 Axial†	794.0	755.4	1006.2 ug/L	1006.2 ppb	13:19:15
1	Sb 206.836†	1527.0	1509.1	516.92 ug/L	516.92 ppb	13:19:15
1	Se 196.026†	798.5	828.6	522.87 ug/L	522.87 ppb	13:19:15
1	Si 251.611†	81609.9	81774.4	2497.5 ug/L	2497.5 ppb	13:18:55
1	Sn 189.927†	2942.6	2963.8	497.94 ug/L	497.94 ppb	13:19:15
1	Ti 334.940†	311661.8	315333.7	489.41 ug/L	489.41 ppb	13:18:55
1	Tl 190.801†	1637.8	1689.5	495.35 ug/L	495.35 ppb	13:19:15
1	U 409.014†	15439.3	17631.7	499.32 ug/L	499.32 ppb	13:18:55
1	V 292.402†	73699.3	75639.2	500.96 ug/L	500.96 ppb	13:18:55
1	Zn 213.857†	55811.5	55230.6	494.98 ug/L	494.98 ppb	13:18:55
1	SiO2†	81047.0	81191.8	5301.9 ug/L	5301.9 ppb	13:20:22
2	Sc Radial	5226.1	5226.1	98.4 %		13:17:57
2	Y RADIAL	5542.4	5542.4	97.71 %		13:17:57
2	Al 396.153Radial†	6642.6	6766.5	4909.7 ug/L	4909.7 ppb	13:17:57
2	Ca 317.933Radial†	3242.6	3273.3	4974.5 ug/L	4974.5 ppb	13:18:17
2	Fe 238.204 Radial†	621.4	621.2	5136.3 ug/L	5136.3 ppb	13:18:17
2	K 766.490 Radial†	30526.7	28370.3	5132.5 ug/L	5132.5 ppb	13:17:57
2	Mg 279.077 IEC†	166.9	166.4	5202.3 ug/L	5202.3 ppb	13:18:17
2	Na 589.592 Radial†	33668.5	35828.3	10441 ug/L	10441 ppb	13:17:57
2	Sr 421.552†	79415.4	80680.1	509.63 ug/L	509.63 ppb	13:17:57
2	Sc 361.383	872758.4	872758.4	100.06 %		13:19:20
2	Y 371.029	720633.8	720633.8	98.247 %		13:19:20
2	Ag 328.068†	110861.0	110420.5	494.43 ug/L	494.43 ppb	13:19:26
2	As 188.979†	1173.3	1196.0	489.82 ug/L	489.82 ppb	13:19:46
2	B 249.677†	22305.1	22929.5	497.66 ug/L	497.66 ppb	13:19:26
2	Ba 233.527†	65075.8	65048.7	490.42 ug/L	490.42 ppb	13:19:26
2	Be 313.107†	1368034.7	1371603.4	488.20 ug/L	488.20 ppb	13:19:20
2	Cd 226.502†	46179.2	46356.3	490.79 ug/L	490.79 ppb	13:19:26
2	Co 228.616†	24959.3	25024.0	491.03 ug/L	491.03 ppb	13:19:26
2	Cr 267.716†	45799.3	45700.8	488.95 ug/L	488.95 ppb	13:19:26
2	Cu 324.752†	174094.5	167452.3	485.70 ug/L	485.70 ppb	13:19:26
2	Mn 257.610†	464886.0	464148.8	491.41 ug/L	491.41 ppb	13:19:20
2	Mo 202.031†	7279.8	7255.2	490.30 ug/L	490.30 ppb	13:19:46
2	Ni 231.604†	20673.9	20568.3	489.31 ug/L	489.31 ppb	13:19:26
2	P 214.914†	4452.5	4238.6	2345.1 ug/L	2345.1 ppb	13:19:46
2	Pb 220.353†	4124.8	4189.9	490.32 ug/L	490.32 ppb	13:19:46
2	S 181.975 Axial†	788.8	743.8	990.70 ug/L	990.70 ppb	13:19:46
2	Sb 206.836†	1532.6	1502.5	514.49 ug/L	514.49 ppb	13:19:46
2	Se 196.026†	791.3	815.0	514.45 ug/L	514.45 ppb	13:19:46
2	Si 251.611†	80572.5	80084.6	2445.9 ug/L	2445.9 ppb	13:19:26
2	Sn 189.927†	2919.5	2917.2	490.11 ug/L	490.11 ppb	13:19:46
2	Ti 334.940†	308086.5	309266.7	480.00 ug/L	480.00 ppb	13:19:26
2	Tl 190.801†	1640.1	1678.7	492.19 ug/L	492.19 ppb	13:19:46
2	U 409.014†	15036.0	17105.1	484.38 ug/L	484.38 ppb	13:19:26
2	V 292.402†	73019.5	74370.1	492.56 ug/L	492.56 ppb	13:19:26
2	Zn 213.857†	55255.8	54228.5	485.99 ug/L	485.99 ppb	13:19:26
2	SiO2†	80177.1	79673.9	5202.7 ug/L	5202.7 ppb	13:20:27
3	Sc Radial	5263.3	5263.3	99.1 %		13:18:22
3	Y RADIAL	5560.8	5560.8	98.03 %		13:18:22

3	Al 396.153Radial†	6679.6	6756.1	4902.1 ug/L	4902.1 ppb	13:18:22
3	Ca 317.933Radial†	3247.9	3255.4	4947.4 ug/L	4947.4 ppb	13:18:42
3	Fe 238.204 Radial†	626.9	622.3	5145.3 ug/L	5145.3 ppb	13:18:42
3	K 766.490 Radial†	30637.1	28262.6	5113.0 ug/L	5113.0 ppb	13:18:22
3	Mg 279.077 IEC†	168.4	166.7	5211.7 ug/L	5211.7 ppb	13:18:42
3	Na 589.592 Radial†	33801.3	35720.8	10410 ug/L	10410 ppb	13:18:22
3	Sr 421.552†	79951.4	80651.1	509.45 ug/L	509.45 ppb	13:18:22
3	Sc 361.383	871309.4	871309.4	99.889 %		13:19:51
3	Y 371.029	720002.3	720002.3	98.161 %		13:19:51
3	Ag 328.068†	111566.0	111310.5	498.40 ug/L	498.40 ppb	13:19:57
3	As 188.979†	1204.7	1229.4	503.42 ug/L	503.42 ppb	13:20:17
3	B 249.677†	22487.8	23149.5	502.44 ug/L	502.44 ppb	13:19:57
3	Ba 233.527†	65418.6	65500.1	493.82 ug/L	493.82 ppb	13:19:57
3	Be 313.107†	1364064.9	1369902.9	487.60 ug/L	487.60 ppb	13:19:51
3	Cd 226.502†	46384.9	46639.0	493.79 ug/L	493.79 ppb	13:19:57
3	Co 228.616†	25163.8	25270.2	495.85 ug/L	495.85 ppb	13:19:57
3	Cr 267.716†	45954.2	45932.0	491.43 ug/L	491.43 ppb	13:19:57
3	Cu 324.752†	175270.2	168918.7	489.95 ug/L	489.95 ppb	13:19:57
3	Mn 257.610†	463300.9	463334.6	490.55 ug/L	490.55 ppb	13:19:51
3	Mo 202.031†	7276.0	7263.6	490.87 ug/L	490.87 ppb	13:20:17
3	Ni 231.604†	20821.6	20750.5	493.64 ug/L	493.64 ppb	13:19:57
3	P 214.914†	4450.0	4243.5	2347.1 ug/L	2347.1 ppb	13:20:17
3	Pb 220.353†	4148.5	4220.5	493.88 ug/L	493.88 ppb	13:20:17
3	S 181.975 Axial†	785.1	741.4	987.57 ug/L	987.57 ppb	13:20:17
3	Sb 206.836†	1523.5	1495.9	512.37 ug/L	512.37 ppb	13:20:17
3	Se 196.026†	791.7	816.7	515.51 ug/L	515.51 ppb	13:20:17
3	Si 251.611†	81040.9	80687.4	2464.3 ug/L	2464.3 ppb	13:19:57
3	Sn 189.927†	2931.2	2933.7	492.88 ug/L	492.88 ppb	13:20:17
3	Ti 334.940†	310021.7	311716.0	483.79 ug/L	483.79 ppb	13:19:57
3	Tl 190.801†	1652.7	1694.0	496.66 ug/L	496.66 ppb	13:20:17
3	U 409.014†	15360.2	17454.6	494.31 ug/L	494.31 ppb	13:19:57
3	V 292.402†	73520.9	74993.4	496.66 ug/L	496.66 ppb	13:19:57
3	Zn 213.857†	55631.6	54696.6	490.19 ug/L	490.19 ppb	13:19:57
3	SiO2†	81365.9	80997.3	5289.3 ug/L	5289.3 ppb	13:20:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869964.9	99.735 %	0.4191			0.42%
Sc Radial	5233.4	98.6 %	0.51			0.52%
Y 371.029	718783.8	97.995 %	0.3649			0.37%
Y RADIAL	5536.9	97.61 %	0.475			0.49%
Ag 328.068†	111393.0	498.77 ug/L	4.539	498.77 ppb	4.539	0.91%
QC value within limits for Ag 328.068 Recovery = 99.75%						
Al 396.153Radial†	6755.9	4901.9 ug/L	7.92	4901.9 ppb	7.92	0.16%
QC value within limits for Al 396.153Radial Recovery = 98.04%						
As 188.979†	1216.5	498.19 ug/L	7.320	498.19 ppb	7.320	1.47%
QC value within limits for As 188.979 Recovery = 99.64%						
B 249.677†	23155.1	502.57 ug/L	4.966	502.57 ppb	4.966	0.99%
QC value within limits for B 249.677 Recovery = 100.51%						
Ba 233.527†	65607.3	494.63 ug/L	4.667	494.63 ppb	4.667	0.94%
QC value within limits for Ba 233.527 Recovery = 98.93%						
Be 313.107†	1371525.9	488.18 ug/L	0.569	488.18 ppb	0.569	0.12%
QC value within limits for Be 313.107 Recovery = 97.64%						
Ca 317.933Radial†	3272.8	4973.8 ug/L	26.03	4973.8 ppb	26.03	0.52%
QC value within limits for Ca 317.933Radial Recovery = 99.48%						
Cd 226.502†	46702.8	494.46 ug/L	4.051	494.46 ppb	4.051	0.82%
QC value within limits for Cd 226.502 Recovery = 98.89%						
Co 228.616†	25250.5	495.47 ug/L	4.262	495.47 ppb	4.262	0.86%
QC value within limits for Co 228.616 Recovery = 99.09%						
Cr 267.716†	45990.8	492.05 ug/L	3.460	492.05 ppb	3.460	0.70%
QC value within limits for Cr 267.716 Recovery = 98.41%						
Cu 324.752†	169243.5	490.89 ug/L	5.722	490.89 ppb	5.722	1.17%
QC value within limits for Cu 324.752 Recovery = 98.18%						
Fe 238.204 Radial†	623.3	5153.7 ug/L	22.84	5153.7 ppb	22.84	0.44%
QC value within limits for Fe 238.204 Radial Recovery = 103.07%						
K 766.490 Radial†	28330.1	5125.3 ug/L	10.64	5125.3 ppb	10.64	0.21%
QC value within limits for K 766.490 Radial Recovery = 102.51%						
Mg 279.077 IEC†	165.9	5185.0 ug/L	38.43	5185.0 ppb	38.43	0.74%
QC value within limits for Mg 279.077 IEC Recovery = 103.70%						

Mn 257.610†	464008.8	491.27 ug/L	0.655	491.27 ppb	0.655	0.13%
QC value within limits for Mn 257.610 Recovery = 98.25%						
Mo 202.031†	7290.4	492.68 ug/L	3.646	492.68 ppb	3.646	0.74%
QC value within limits for Mo 202.031 Recovery = 98.54%						
Na 589.592 Radial†	35722.8	10410 ug/L	30.5	10410 ppb	30.5	0.29%
QC value within limits for Na 589.592 Radial Recovery = 104.10%						
Ni 231.604†	20747.8	493.58 ug/L	4.240	493.58 ppb	4.240	0.86%
QC value within limits for Ni 231.604 Recovery = 98.72%						
P 214.914†	4258.9	2355.8 ug/L	16.85	2355.8 ppb	16.85	0.72%
QC value within limits for P 214.914 Recovery = 94.23%						
Pb 220.353†	4217.9	493.58 ug/L	3.127	493.58 ppb	3.127	0.63%
QC value within limits for Pb 220.353 Recovery = 98.72%						
S 181.975 Axial†	746.9	994.83 ug/L	9.979	994.83 ppb	9.979	1.00%
QC value within limits for S 181.975 Axial Recovery = 99.48%						
Sb 206.836†	1502.5	514.59 ug/L	2.278	514.59 ppb	2.278	0.44%
QC value within limits for Sb 206.836 Recovery = 102.92%						
Se 196.026†	820.1	517.61 ug/L	4.587	517.61 ppb	4.587	0.89%
QC value within limits for Se 196.026 Recovery = 103.52%						
Si 251.611†	80848.8	2469.2 ug/L	26.18	2469.2 ppb	26.18	1.06%
QC value within limits for Si 251.611 Recovery = 98.77%						
Sn 189.927†	2938.2	493.64 ug/L	3.970	493.64 ppb	3.970	0.80%
QC value within limits for Sn 189.927 Recovery = 98.73%						
Sr 421.552†	80593.8	509.09 ug/L	0.791	509.09 ppb	0.791	0.16%
QC value within limits for Sr 421.552 Recovery = 101.82%						
Ti 334.940†	312105.5	484.40 ug/L	4.739	484.40 ppb	4.739	0.98%
QC value within limits for Ti 334.940 Recovery = 96.88%						
Tl 190.801†	1687.4	494.73 ug/L	2.295	494.73 ppb	2.295	0.46%
QC value within limits for Tl 190.801 Recovery = 98.95%						
U 409.014†	17397.2	492.67 ug/L	7.605	492.67 ppb	7.605	1.54%
QC value within limits for U 409.014 Recovery = 98.53%						
V 292.402†	75000.9	496.72 ug/L	4.198	496.72 ppb	4.198	0.85%
QC value within limits for V 292.402 Recovery = 99.34%						
Zn 213.857†	54718.6	490.39 ug/L	4.496	490.39 ppb	4.496	0.92%
QC value within limits for Zn 213.857 Recovery = 98.08%						
SiO2†	80621.0	5264.7 ug/L	54.01	5264.7 ppb	54.01	1.03%
QC value within limits for SiO2 Recovery = 98.45%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/13/2010 13:22:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5222.0	5222.0	98.3 %		13:24:35
1	Y RADIAL	5617.0	5617.0	99.02 %		13:24:35
1	Al 396.153Radial†	5.3	22.2	16.172 ug/L	16.172 ppb	13:24:35
1	Ca 317.933Radial†	22.7	1.5	2.2733 ug/L	2.2733 ppb	13:24:55
1	Fe 238.204 Radial†	8.8	-1.2	-9.9529 ug/L	-9.9529 ppb	13:24:55
1	K 766.490 Radial†	3026.4	429.0	77.672 ug/L	77.672 ppb	13:24:35
1	Mg 279.077 IEC†	-1.1	-4.3	-134.31 ug/L	-134.31 ppb	13:24:55
1	Na 589.592 Radial†	-1329.0	265.5	77.370 ug/L	77.370 ppb	13:24:35
1	Sr 421.552†	29.7	14.5	0.0918 ug/L	0.0918 ppb	13:24:35
1	Sc 361.383	857360.8	857360.8	98.290 %		13:25:52
1	Y 371.029	720346.3	720346.3	98.208 %		13:25:52
1	Ag 328.068†	289.7	-84.5	-0.3783 ug/L	-0.3783 ppb	13:25:52
1	As 188.979†	-9.4	13.9	5.6381 ug/L	5.6381 ppb	13:26:12
1	B 249.677†	60.1	697.9	15.217 ug/L	15.217 ppb	13:26:12
1	Ba 233.527†	-7.8	0.9	0.0070 ug/L	0.0070 ppb	13:26:12
1	Be 313.107†	-4204.1	47.2	0.0163 ug/L	0.0163 ppb	13:25:52
1	Cd 226.502†	-152.8	47.2	0.5006 ug/L	0.5006 ppb	13:26:12
1	Co 228.616†	-74.8	2.3	0.0453 ug/L	0.0453 ppb	13:26:12
1	Cr 267.716†	109.2	37.9	0.4052 ug/L	0.4052 ppb	13:26:12
1	Cu 324.752†	6504.6	71.8	0.2071 ug/L	0.2071 ppb	13:25:52
1	Mn 257.610†	423.8	-49.2	-0.0476 ug/L	-0.0476 ppb	13:26:12
1	Mo 202.031†	14.1	-6.2	-0.4214 ug/L	-0.4214 ppb	13:26:12
1	Ni 231.604†	90.7	-2.0	-0.0468 ug/L	-0.0468 ppb	13:26:12
1	P 214.914†	214.4	6.6	3.7588 ug/L	3.7588 ppb	13:26:12
1	Pb 220.353†	-62.4	3.9	0.4534 ug/L	0.4534 ppb	13:26:12
1	S 181.975 Axial†	48.4	4.8	6.3404 ug/L	6.3404 ppb	13:26:12
1	Sb 206.836†	57.9	29.7	9.8100 ug/L	9.8100 ppb	13:26:12
1	Se 196.026†	-28.9	-5.2	-3.2076 ug/L	-3.2076 ppb	13:26:12
1	Si 251.611†	489.5	54.6	1.6771 ug/L	1.6771 ppb	13:26:12
1	Sn 189.927†	0.4	-0.4	-0.0672 ug/L	-0.0672 ppb	13:26:12
1	Ti 334.940†	-1466.6	-141.7	-0.2093 ug/L	-0.2093 ppb	13:25:52
1	Tl 190.801†	-39.3	-0.5	-0.1511 ug/L	-0.1511 ppb	13:26:12
1	U 409.014†	-2009.4	33.1	0.9404 ug/L	0.9404 ppb	13:25:52
1	V 292.402†	-1303.5	64.8	0.4180 ug/L	0.4180 ppb	13:25:52
1	Zn 213.857†	700.8	-283.7	-2.5639 ug/L	-2.5639 ppb	13:26:12
1	SiO2†	482.8	32.2	2.1224 ug/L	2.1224 ppb	13:27:08
2	Sc Radial	5272.7	5272.7	99.3 %		13:25:00
2	Y RADIAL	5644.0	5644.0	99.50 %		13:25:00
2	Al 396.153Radial†	14.4	31.3	22.759 ug/L	22.759 ppb	13:25:00
2	Ca 317.933Radial†	18.8	-2.7	-4.0495 ug/L	-4.0495 ppb	13:25:20
2	Fe 238.204 Radial†	10.1	-0.0	-0.2384 ug/L	-0.2384 ppb	13:25:20
2	K 766.490 Radial†	2999.3	372.1	67.390 ug/L	67.390 ppb	13:25:00
2	Mg 279.077 IEC†	2.1	-1.1	-34.085 ug/L	-34.085 ppb	13:25:20
2	Na 589.592 Radial†	-1414.8	192.1	55.968 ug/L	55.968 ppb	13:25:00
2	Sr 421.552†	21.1	5.5	0.0351 ug/L	0.0351 ppb	13:25:00
2	Sc 361.383	868284.5	868284.5	99.542 %		13:26:17
2	Y 371.029	730478.8	730478.8	99.590 %		13:26:17
2	Ag 328.068†	311.3	-66.6	-0.2955 ug/L	-0.2955 ppb	13:26:17
2	As 188.979†	-9.4	14.0	5.6657 ug/L	5.6657 ppb	13:26:37
2	B 249.677†	70.6	707.7	15.429 ug/L	15.429 ppb	13:26:37
2	Ba 233.527†	-7.0	1.8	0.0131 ug/L	0.0131 ppb	13:26:37
2	Be 313.107†	-4305.0	-0.4	0.0000 ug/L	0.0000 ppb	13:26:17
2	Cd 226.502†	-166.9	35.0	0.3699 ug/L	0.3699 ppb	13:26:37
2	Co 228.616†	-68.2	9.9	0.1947 ug/L	0.1947 ppb	13:26:37
2	Cr 267.716†	102.0	29.3	0.3132 ug/L	0.3132 ppb	13:26:37
2	Cu 324.752†	6563.0	47.1	0.1378 ug/L	0.1378 ppb	13:26:17
2	Mn 257.610†	432.6	-45.9	-0.0472 ug/L	-0.0472 ppb	13:26:37
2	Mo 202.031†	28.4	7.9	0.5361 ug/L	0.5361 ppb	13:26:37
2	Ni 231.604†	91.0	-2.8	-0.0677 ug/L	-0.0677 ppb	13:26:37

2	P 214.914†	213.7	3.2	1.8358 ug/L	1.8358 ppb	13:26:37
2	Pb 220.353†	-66.0	1.1	0.1291 ug/L	0.1291 ppb	13:26:37
2	S 181.975 Axial†	48.1	3.8	5.0830 ug/L	5.0830 ppb	13:26:37
2	Sb 206.836†	49.3	20.3	6.7674 ug/L	6.7674 ppb	13:26:37
2	Se 196.026†	-32.3	-8.3	-5.0693 ug/L	-5.0693 ppb	13:26:37
2	Si 251.611†	479.0	37.7	1.1485 ug/L	1.1485 ppb	13:26:37
2	Sn 189.927†	12.9	12.2	2.0446 ug/L	2.0446 ppb	13:26:37
2	Ti 334.940†	-1318.3	26.0	0.0434 ug/L	0.0434 ppb	13:26:17
2	Tl 190.801†	-35.5	3.8	1.0986 ug/L	1.0986 ppb	13:26:37
2	U 409.014†	-2142.1	-74.5	-2.1180 ug/L	-2.1180 ppb	13:26:17
2	V 292.402†	-1424.2	-39.9	-0.2578 ug/L	-0.2578 ppb	13:26:17
2	Zn 213.857†	719.9	-273.5	-2.4727 ug/L	-2.4727 ppb	13:26:37
2	SiO2†	463.7	7.0	0.4419 ug/L	0.4419 ppb	13:27:13
3	Sc Radial	5291.6	5291.6	99.6 %		13:25:25
3	Y RADIAL	5651.1	5651.1	99.63 %		13:25:25
3	Al 396.153Radial†	-0.1	16.6	12.089 ug/L	12.089 ppb	13:25:25
3	Ca 317.933Radial†	20.2	-1.3	-1.9605 ug/L	-1.9605 ppb	13:25:45
3	Fe 238.204 Radial†	8.9	-1.2	-10.161 ug/L	-10.161 ppb	13:25:45
3	K 766.490 Radial†	3094.8	457.1	82.781 ug/L	82.781 ppb	13:25:25
3	Mg 279.077 IEC†	0.3	-2.9	-89.612 ug/L	-89.612 ppb	13:25:45
3	Na 589.592 Radial†	-1404.5	207.5	60.482 ug/L	60.482 ppb	13:25:25
3	Sr 421.552†	4.1	-11.6	-0.0734 ug/L	-0.0734 ppb	13:25:25
3	Sc 361.383	863046.8	863046.8	98.942 %		13:26:43
3	Y 371.029	726207.2	726207.2	99.007 %		13:26:43
3	Ag 328.068†	235.6	-141.2	-0.6326 ug/L	-0.6326 ppb	13:26:43
3	As 188.979†	-14.3	8.9	3.6232 ug/L	3.6232 ppb	13:27:03
3	B 249.677†	67.1	704.6	15.362 ug/L	15.362 ppb	13:27:03
3	Ba 233.527†	-9.6	-0.9	-0.0068 ug/L	-0.0068 ppb	13:27:03
3	Be 313.107†	-4291.7	-13.1	-0.0046 ug/L	-0.0046 ppb	13:26:43
3	Cd 226.502†	-164.1	36.7	0.3903 ug/L	0.3903 ppb	13:27:03
3	Co 228.616†	-65.3	12.4	0.2444 ug/L	0.2444 ppb	13:27:03
3	Cr 267.716†	94.0	21.8	0.2325 ug/L	0.2325 ppb	13:27:03
3	Cu 324.752†	6583.3	107.7	0.3109 ug/L	0.3109 ppb	13:26:43
3	Mn 257.610†	435.0	-40.7	-0.0404 ug/L	-0.0404 ppb	13:27:03
3	Mo 202.031†	26.1	5.8	0.3903 ug/L	0.3903 ppb	13:27:03
3	Ni 231.604†	80.9	-12.5	-0.2966 ug/L	-0.2966 ppb	13:27:03
3	P 214.914†	223.0	13.9	7.9569 ug/L	7.9569 ppb	13:27:03
3	Pb 220.353†	-50.2	16.6	1.9391 ug/L	1.9391 ppb	13:27:03
3	S 181.975 Axial†	50.6	6.7	8.8645 ug/L	8.8645 ppb	13:27:03
3	Sb 206.836†	49.2	20.5	6.8046 ug/L	6.8046 ppb	13:27:03
3	Se 196.026†	-30.8	-7.0	-4.2811 ug/L	-4.2811 ppb	13:27:03
3	Si 251.611†	476.1	37.7	1.1495 ug/L	1.1495 ppb	13:27:03
3	Sn 189.927†	9.9	9.3	1.5579 ug/L	1.5579 ppb	13:27:03
3	Ti 334.940†	-1330.8	5.3	0.0145 ug/L	0.0145 ppb	13:26:43
3	Tl 190.801†	-26.1	13.1	3.8089 ug/L	3.8089 ppb	13:27:03
3	U 409.014†	-1991.3	64.8	1.8430 ug/L	1.8430 ppb	13:26:43
3	V 292.402†	-1367.5	8.8	0.0660 ug/L	0.0660 ppb	13:26:43
3	Zn 213.857†	694.3	-295.0	-2.6645 ug/L	-2.6645 ppb	13:27:03
3	SiO2†	499.2	45.7	2.9781 ug/L	2.9781 ppb	13:27:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862897.4	98.925 %		0.6263			0.63%
Sc Radial	5262.1	99.1 %		0.68			0.68%
Y 371.029	725677.4	98.935 %		0.6935			0.70%
Y RADIAL	5637.4	99.38 %		0.317			0.32%
Ag 328.068†	-97.4	-0.4355 ug/L		0.17567	-0.4355 ppb	0.17567	40.34%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	23.3	17.007 ug/L		5.3840	17.007 ppb	5.3840	31.66%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	12.3	4.9757 ug/L		1.17133	4.9757 ppb	1.17133	23.54%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	703.4	15.336 ug/L		0.1086	15.336 ppb	0.1086	0.71%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.6	0.0044 ug/L		0.01019	0.0044 ppb	0.01019	229.85%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	11.2	0.0039 ug/L		0.01099	0.0039 ppb	0.01099	284.33%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.8	-1.2456 ug/L		3.22149	-1.2456 ppb	3.22149	258.64%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	39.6	0.4202 ug/L	0.07031	0.4202 ppb	0.07031	16.73%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	8.2	0.1615 ug/L	0.10362	0.1615 ppb	0.10362	64.17%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	29.7	0.3170 ug/L	0.08642	0.3170 ppb	0.08642	27.26%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	75.5	0.2186 ug/L	0.08708	0.2186 ppb	0.08708	39.84%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-0.8	-6.7842 ug/L	5.66980	-6.7842 ppb	5.66980	83.57%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	419.4	75.948 ug/L	7.8389	75.948 ppb	7.8389	10.32%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-2.8	-86.003 ug/L	50.2102	-86.003 ppb	50.2102	58.38%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-45.3	-0.0450 ug/L	0.00400	-0.0450 ppb	0.00400	8.87%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	2.5	0.1683 ug/L	0.51591	0.1683 ppb	0.51591	306.46%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	221.7	64.607 ug/L	11.2818	64.607 ppb	11.2818	17.46%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-5.8	-0.1370 ug/L	0.13857	-0.1370 ppb	0.13857	101.12%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	7.9	4.5172 ug/L	3.13019	4.5172 ppb	3.13019	69.30%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	7.2	0.8405 ug/L	0.96511	0.8405 ppb	0.96511	114.82%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	5.1	6.7626 ug/L	1.92581	6.7626 ppb	1.92581	28.48%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	23.5	7.7940 ug/L	1.74600	7.7940 ppb	1.74600	22.40%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-6.8	-4.1860 ug/L	0.93448	-4.1860 ppb	0.93448	22.32%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	43.3	1.3250 ug/L	0.30492	1.3250 ppb	0.30492	23.01%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	7.0	1.1784 ug/L	1.10587	1.1784 ppb	1.10587	93.85%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	2.8	0.0178 ug/L	0.08394	0.0178 ppb	0.08394	471.85%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	-36.8	-0.0505 ug/L	0.13830	-0.0505 ppb	0.13830	273.99%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	5.4	1.5855 ug/L	2.02442	1.5855 ppb	2.02442	127.68%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	7.8	0.2218 ug/L	2.07599	0.2218 ppb	2.07599	936.05%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	11.2	0.0754 ug/L	0.33801	0.0754 ppb	0.33801	448.34%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-284.1	-2.5670 ug/L	0.09595	-2.5670 ppb	0.09595	3.74%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	28.3	1.8475 ug/L	1.29024	1.8475 ppb	1.29024	69.84%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 3

Sample ID: LRL

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 1/13/2010 13:29:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5089.8	5089.8	95.8 %		13:31:21
1	Y RADIAL	5424.6	5424.6	95.63 %		13:31:21
1	Al 396.153Radial†	-28.8	-13.3	-8.3968 ug/L	-8.3968 ppb	13:31:21
1	Ca 317.933Radial†	10.4	-10.7	-16.240 ug/L	-16.240 ppb	13:31:41
1	Fe 238.204 Radial†	43478.2	45352.3	373900 ug/L	373900 ppb	13:31:21
1	K 766.490 Radial†	2708.9	177.7	32.212 ug/L	32.212 ppb	13:31:21
1	Mg 279.077 IEC†	14.0	11.4	-36.385 ug/L	-36.385 ppb	13:31:41
1	Na 589.592 Radial†	-1336.2	222.9	64.960 ug/L	64.960 ppb	13:31:21
1	Sr 421.552†	66.3	53.4	0.3377 ug/L	0.3377 ppb	13:31:21
1	Sc 361.383	848863.4	848863.4	97.316 %		13:32:39
1	Y 371.029	707427.5	707427.5	96.447 %		13:32:39
1	Ag 328.068†	-25950.1	-27045.1	0.9424 ug/L	0.9424 ppb	13:32:39
1	As 188.979†	-207.2	-189.5	10.693 ug/L	10.693 ppb	13:32:59
1	B 249.677†	2407.4	3110.6	7.0804 ug/L	7.0804 ppb	13:32:39
1	Ba 233.527†	-1621.2	-1657.1	-0.9581 ug/L	-0.9581 ppb	13:32:39
1	Be 313.107†	-4270.6	-64.0	-0.0229 ug/L	-0.0229 ppb	13:32:39
1	Cd 226.502†	3242.8	3534.9	-1.1721 ug/L	-1.1721 ppb	13:32:39
1	Co 228.616†	204.5	288.6	0.1967 ug/L	0.1967 ppb	13:32:59
1	Cr 267.716†	-668.1	-759.7	-0.7954 ug/L	-0.7954 ppb	13:32:39
1	Cu 324.752†	229.6	-6310.1	1.4513 ug/L	1.4513 ppb	13:32:39
1	Mn 257.610†	-33824.8	-35238.2	-0.3720 ug/L	-0.3720 ppb	13:32:39
1	Mo 202.031†	-365.8	-396.5	2.2582 ug/L	2.2582 ppb	13:32:39
1	Ni 231.604†	168.6	79.0	1.8776 ug/L	1.8776 ppb	13:32:59
1	P 214.914†	714.8	523.0	3.5180 ug/L	3.5180 ppb	13:32:59
1	Pb 220.353†	222.2	295.7	-1.2955 ug/L	-1.2955 ppb	13:32:59
1	S 181.975 Axial†	67.6	24.9	33.240 ug/L	33.240 ppb	13:32:59
1	Sb 206.836†	23.0	-5.6	7.1260 ug/L	7.1260 ppb	13:32:59
1	Se 196.026†	-1809.7	-1835.5	107.64 ug/L	107.64 ppb	13:32:59
1	Si 251.611†	-601.4	-1061.4	-32.167 ug/L	-32.167 ppb	13:32:39
1	Sn 189.927†	-16.6	-17.8	3.2994 ug/L	3.2994 ppb	13:32:59
1	Ti 334.940†	-1371.6	-59.1	-0.1490 ug/L	-0.1490 ppb	13:32:39
1	Tl 190.801†	-47.1	-8.9	-2.9148 ug/L	-2.9148 ppb	13:32:59
1	U 409.014†	245.2	2329.4	23.586 ug/L	23.586 ppb	13:32:39
1	V 292.402†	7314.4	8907.1	3.5153 ug/L	3.5153 ppb	13:32:39
1	Zn 213.857†	4541.8	3670.4	-3.0739 ug/L	-3.0739 ppb	13:32:59
1	SiO2†	-712.0	-1190.5	-77.213 ug/L	-77.213 ppb	13:33:56
2	Sc Radial	5188.1	5188.1	97.7 %		13:31:46
2	Y RADIAL	5522.1	5522.1	97.35 %		13:31:46
2	Al 396.153Radial†	-50.3	-34.7	-24.050 ug/L	-24.050 ppb	13:31:46
2	Ca 317.933Radial†	11.9	-9.4	-14.241 ug/L	-14.241 ppb	13:32:07
2	Fe 238.204 Radial†	43883.8	44907.8	370230 ug/L	370230 ppb	13:31:46
2	K 766.490 Radial†	2591.0	3.4	0.6399 ug/L	0.6399 ppb	13:31:46
2	Mg 279.077 IEC†	12.2	9.3	-97.877 ug/L	-97.877 ppb	13:32:07
2	Na 589.592 Radial†	-1351.1	234.1	68.213 ug/L	68.213 ppb	13:31:46
2	Sr 421.552†	65.3	51.1	0.3232 ug/L	0.3232 ppb	13:31:46
2	Sc 361.383	851485.5	851485.5	97.616 %		13:33:05
2	Y 371.029	710510.6	710510.6	96.867 %		13:33:05
2	Ag 328.068†	-26056.4	-27071.9	-0.3633 ug/L	-0.3633 ppb	13:33:05
2	As 188.979†	-207.9	-189.6	9.8173 ug/L	9.8173 ppb	13:33:25
2	B 249.677†	2246.7	2938.4	3.9224 ug/L	3.9224 ppb	13:33:05
2	Ba 233.527†	-1602.8	-1633.1	-0.8899 ug/L	-0.8899 ppb	13:33:05
2	Be 313.107†	-4297.9	-78.4	-0.0280 ug/L	-0.0280 ppb	13:33:05
2	Cd 226.502†	3324.2	3608.0	-0.0207 ug/L	-0.0207 ppb	13:33:05
2	Co 228.616†	181.7	264.6	-0.2200 ug/L	-0.2200 ppb	13:33:25
2	Cr 267.716†	-596.9	-684.7	-0.0643 ug/L	-0.0643 ppb	13:33:05
2	Cu 324.752†	10.7	-6535.0	0.6063 ug/L	0.6063 ppb	13:33:05
2	Mn 257.610†	-34186.6	-35501.7	-1.0102 ug/L	-1.0102 ppb	13:33:05
2	Mo 202.031†	-358.3	-387.6	2.5698 ug/L	2.5698 ppb	13:33:05
2	Ni 231.604†	140.4	49.6	1.1772 ug/L	1.1772 ppb	13:33:25

2	P 214.914†	707.5	513.2	0.9673 ug/L	0.9673 ppb	13:33:25
2	Pb 220.353†	217.4	290.0	-1.6025 ug/L	-1.6025 ppb	13:33:25
2	S 181.975 Axial†	63.7	20.7	27.625 ug/L	27.625 ppb	13:33:25
2	Sb 206.836†	44.3	16.1	14.196 ug/L	14.196 ppb	13:33:25
2	Se 196.026†	-1812.3	-1832.4	97.503 ug/L	97.503 ppb	13:33:25
2	Si 251.611†	-786.5	-1249.1	-37.922 ug/L	-37.922 ppb	13:33:05
2	Sn 189.927†	-28.6	-30.1	1.1840 ug/L	1.1840 ppb	13:33:25
2	Ti 334.940†	-1357.6	-40.4	-0.1136 ug/L	-0.1136 ppb	13:33:05
2	Tl 190.801†	-46.9	-8.6	-2.8042 ug/L	-2.8042 ppb	13:33:25
2	U 409.014†	156.2	2237.4	21.388 ug/L	21.388 ppb	13:33:05
2	V 292.402†	7274.3	8842.8	3.6308 ug/L	3.6308 ppb	13:33:05
2	Zn 213.857†	4540.1	3654.2	-2.8591 ug/L	-2.8591 ppb	13:33:25
2	SiO2†	-737.6	-1214.5	-78.800 ug/L	-78.800 ppb	13:34:01
3	Sc Radial	5173.4	5173.4	97.4 %		13:32:12
3	Y RADIAL	5514.5	5514.5	97.22 %		13:32:12
3	Al 396.153Radial†	-20.3	-4.1	-1.6599 ug/L	-1.6599 ppb	13:32:12
3	Ca 317.933Radial†	4.7	-16.7	-25.358 ug/L	-25.358 ppb	13:32:32
3	Fe 238.204 Radial†	44178.0	45337.2	373770 ug/L	373770 ppb	13:32:12
3	K 766.490 Radial†	2744.2	168.2	30.489 ug/L	30.489 ppb	13:32:12
3	Mg 279.077 IEC†	12.8	10.0	-79.739 ug/L	-79.739 ppb	13:32:32
3	Na 589.592 Radial†	-1329.4	252.4	73.550 ug/L	73.550 ppb	13:32:12
3	Sr 421.552†	80.3	66.7	0.4213 ug/L	0.4213 ppb	13:32:12
3	Sc 361.383	849383.2	849383.2	97.375 %		13:33:31
3	Y 371.029	708072.6	708072.6	96.535 %		13:33:31
3	Ag 328.068†	-25884.5	-26961.4	1.2764 ug/L	1.2764 ppb	13:33:31
3	As 188.979†	-204.5	-186.6	11.856 ug/L	11.856 ppb	13:33:51
3	B 249.677†	2168.1	2863.3	1.7117 ug/L	1.7117 ppb	13:33:31
3	Ba 233.527†	-1711.7	-1749.0	-1.6527 ug/L	-1.6527 ppb	13:33:31
3	Be 313.107†	-4351.6	-144.4	-0.0517 ug/L	-0.0517 ppb	13:33:31
3	Cd 226.502†	3319.7	3611.8	-0.3452 ug/L	-0.3452 ppb	13:33:31
3	Co 228.616†	174.1	257.2	-0.4199 ug/L	-0.4199 ppb	13:33:51
3	Cr 267.716†	-526.4	-613.8	0.7618 ug/L	0.7618 ppb	13:33:31
3	Cu 324.752†	295.3	-6242.7	1.6410 ug/L	1.6410 ppb	13:33:31
3	Mn 257.610†	-34064.7	-35463.3	-0.6208 ug/L	-0.6208 ppb	13:33:31
3	Mo 202.031†	-379.1	-409.8	1.3443 ug/L	1.3443 ppb	13:33:31
3	Ni 231.604†	144.4	54.1	1.2847 ug/L	1.2847 ppb	13:33:51
3	P 214.914†	687.5	494.5	-12.816 ug/L	-12.816 ppb	13:33:51
3	Pb 220.353†	223.4	296.8	-1.1562 ug/L	-1.1562 ppb	13:33:51
3	S 181.975 Axial†	57.4	14.4	19.153 ug/L	19.153 ppb	13:33:51
3	Sb 206.836†	23.2	-5.4	7.1251 ug/L	7.1251 ppb	13:33:51
3	Se 196.026†	-1820.2	-1845.1	101.34 ug/L	101.34 ppb	13:33:51
3	Si 251.611†	-723.0	-1185.9	-35.968 ug/L	-35.968 ppb	13:33:31
3	Sn 189.927†	-31.1	-32.7	0.8057 ug/L	0.8057 ppb	13:33:51
3	Ti 334.940†	-1428.7	-116.8	-0.2362 ug/L	-0.2362 ppb	13:33:31
3	Tl 190.801†	-45.7	-7.5	-2.4831 ug/L	-2.4831 ppb	13:33:51
3	U 409.014†	189.6	2272.1	21.968 ug/L	21.968 ppb	13:33:31
3	V 292.402†	7338.5	8927.2	3.6478 ug/L	3.6478 ppb	13:33:31
3	Zn 213.857†	4530.1	3655.5	-3.1930 ug/L	-3.1930 ppb	13:33:51
3	SiO2†	-743.0	-1221.9	-79.243 ug/L	-79.243 ppb	13:34:06

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849910.7	97.436 %		0.1592			0.16%
Sc Radial	5150.4	97.0 %		1.00			1.03%
Y 371.029	708670.2	96.616 %		0.2217			0.23%
Y RADIAL	5487.1	96.73 %		0.956			0.99%
Ag 328.068†	-27026.2	0.6185 ug/L		0.86650	0.6185 ppb	0.86650	140.09%
Al 396.153Radial†	-17.4	-11.369 ug/L		11.4873	-11.369 ppb	11.4873	101.04%
As 188.979†	-188.6	10.789 ug/L		1.0229	10.789 ppb	1.0229	9.48%
B 249.677†	2970.8	4.2381 ug/L		2.69825	4.2381 ppb	2.69825	63.67%
Ba 233.527†	-1679.7	-1.1669 ug/L		0.42204	-1.1669 ppb	0.42204	36.17%
Be 313.107†	-95.6	-0.0342 ug/L		0.01536	-0.0342 ppb	0.01536	44.90%
Ca 317.933Radial†	-12.2	-18.613 ug/L		5.9263	-18.613 ppb	5.9263	31.84%
Cd 226.502†	3584.9	-0.5126 ug/L		0.59368	-0.5126 ppb	0.59368	115.81%
Co 228.616†	270.1	-0.1477 ug/L		0.31458	-0.1477 ppb	0.31458	212.97%
Cr 267.716†	-686.1	-0.0326 ug/L		0.77910	-0.0326 ppb	0.77910	>999.9%
Cu 324.752†	-6362.6	1.2329 ug/L		0.55085	1.2329 ppb	0.55085	44.68%
Fe 238.204 Radial†	45199.1	372630 ug/L		2080.8	372630 ppb	2080.8	0.56%
K 766.490 Radial†	116.4	21.114 ug/L		17.7517	21.114 ppb	17.7517	84.08%

Mg 279.077 IEC†	10.2	-71.334 ug/L	31.5960	-71.334 ppb	31.5960	44.29%
Mn 257.610†	-35401.0	-0.6677 ug/L	0.32166	-0.6677 ppb	0.32166	48.18%
Mo 202.031†	-398.0	2.0574 ug/L	0.63694	2.0574 ppb	0.63694	30.96%
Na 589.592 Radial†	236.5	68.908 ug/L	4.3374	68.908 ppb	4.3374	6.29%
Ni 231.604†	60.9	1.4465 ug/L	0.37717	1.4465 ppb	0.37717	26.08%
P 214.914†	510.3	-2.7771 ug/L	8.78743	-2.7771 ppb	8.78743	316.43%
Pb 220.353†	294.1	-1.3514 ug/L	0.22834	-1.3514 ppb	0.22834	16.90%
S 181.975 Axial†	20.0	26.673 ug/L	7.0918	26.673 ppb	7.0918	26.59%
Sb 206.836†	1.7	9.4824 ug/L	4.08219	9.4824 ppb	4.08219	43.05%
Se 196.026†	-1837.7	102.16 ug/L	5.116	102.16 ppb	5.116	5.01%
Si 251.611†	-1165.5	-35.352 ug/L	2.9263	-35.352 ppb	2.9263	8.28%
Sn 189.927†	-26.8	1.7630 ug/L	1.34394	1.7630 ppb	1.34394	76.23%
Sr 421.552†	57.1	0.3607 ug/L	0.05298	0.3607 ppb	0.05298	14.69%
Ti 334.940†	-72.1	-0.1662 ug/L	0.06310	-0.1662 ppb	0.06310	37.96%
Tl 190.801†	-8.3	-2.7340 ug/L	0.22424	-2.7340 ppb	0.22424	8.20%
U 409.014†	2279.7	22.314 ug/L	1.1390	22.314 ppb	1.1390	5.10%
V 292.402†	8892.4	3.5980 ug/L	0.07213	3.5980 ppb	0.07213	2.00%
Zn 213.857†	3660.0	-3.0420 ug/L	0.16921	-3.0420 ppb	0.16921	5.56%
SiO2†	-1209.0	-78.419 ug/L	1.0675	-78.419 ppb	1.0675	1.36%

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

Autosampler Location: 7
 Date Collected: 1/13/2010 13:36:18
 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	5235.1	5235.1	98.6 %		13:38:10
1	Y RADIAL	5532.0	5532.0	97.53 %		13:38:10
1	Al 396.153Radial†	6643.3	6755.5	4901.4 ug/L	4901.4 ppb	13:38:10
1	Ca 317.933Radial†	3221.5	3246.3	4933.5 ug/L	4933.5 ppb	13:38:30
1	Fe 238.204 Radial†	612.4	611.0	5052.5 ug/L	5052.5 ppb	13:38:30
1	K 766.490 Radial†	30215.9	28001.6	5066.0 ug/L	5066.0 ppb	13:38:10
1	Mg 279.077 IEC†	164.0	163.1	5099.5 ug/L	5099.5 ppb	13:38:30
1	Na 589.592 Radial†	31944.4	34020.5	9914.3 ug/L	9914.3 ppb	13:38:10
1	Sr 421.552†	77800.9	78903.5	498.41 ug/L	498.41 ppb	13:38:10
1	Sc 361.383	856532.4	856532.4	98.195 %		13:39:27
1	Y 371.029	706886.3	706886.3	96.373 %		13:39:27
1	Ag 328.068†	110950.4	112610.5	504.17 ug/L	504.17 ppb	13:39:32
1	As 188.979†	1178.7	1223.8	501.16 ug/L	501.16 ppb	13:39:53
1	B 249.677†	22134.1	23177.7	503.06 ug/L	503.06 ppb	13:39:32
1	Ba 233.527†	65046.2	66250.7	499.47 ug/L	499.47 ppb	13:39:32
1	Be 313.107†	1347267.8	1376356.3	489.91 ug/L	489.91 ppb	13:39:27
1	Cd 226.502†	45997.2	47045.2	498.10 ug/L	498.10 ppb	13:39:32
1	Co 228.616†	25009.7	25547.8	501.30 ug/L	501.30 ppb	13:39:32
1	Cr 267.716†	45749.6	46517.3	497.68 ug/L	497.68 ppb	13:39:32
1	Cu 324.752†	174623.0	171286.7	496.81 ug/L	496.81 ppb	13:39:32
1	Mn 257.610†	457999.7	465937.8	493.30 ug/L	493.30 ppb	13:39:27
1	Mo 202.031†	7236.2	7348.7	496.60 ug/L	496.60 ppb	13:39:53
1	Ni 231.604†	20666.3	20951.9	498.44 ug/L	498.44 ppb	13:39:32
1	P 214.914†	4412.3	4281.9	2368.0 ug/L	2368.0 ppb	13:39:53
1	Pb 220.353†	4103.0	4245.7	496.85 ug/L	496.85 ppb	13:39:53
1	S 181.975 Axial†	777.3	747.0	995.01 ug/L	995.01 ppb	13:39:53
1	Sb 206.836†	1505.0	1503.4	515.03 ug/L	515.03 ppb	13:39:53
1	Se 196.026†	782.8	821.4	518.05 ug/L	518.05 ppb	13:39:53
1	Si 251.611†	80612.7	81651.0	2493.7 ug/L	2493.7 ppb	13:39:32
1	Sn 189.927†	2913.1	2965.8	498.27 ug/L	498.27 ppb	13:39:53
1	Ti 334.940†	308672.2	315696.2	489.97 ug/L	489.97 ppb	13:39:32
1	Tl 190.801†	1630.3	1699.7	498.35 ug/L	498.35 ppb	13:39:53
1	U 409.014†	15274.2	17632.3	499.35 ug/L	499.35 ppb	13:39:32
1	V 292.402†	73063.3	75797.2	502.00 ug/L	502.00 ppb	13:39:32
1	Zn 213.857†	55187.7	55205.4	494.76 ug/L	494.76 ppb	13:39:32
1	SiO2†	81406.4	82443.8	5383.9 ug/L	5383.9 ppb	13:41:00
2	Sc Radial	5224.9	5224.9	98.4 %		13:38:35
2	Y RADIAL	5545.6	5545.6	97.77 %		13:38:35
2	Al 396.153Radial†	6629.9	6755.1	4901.3 ug/L	4901.3 ppb	13:38:35
2	Ca 317.933Radial†	3255.5	3287.2	4995.7 ug/L	4995.7 ppb	13:38:55
2	Fe 238.204 Radial†	616.7	616.6	5098.1 ug/L	5098.1 ppb	13:38:55
2	K 766.490 Radial†	30300.0	28146.9	5092.3 ug/L	5092.3 ppb	13:38:35
2	Mg 279.077 IEC†	162.5	161.9	5061.2 ug/L	5061.2 ppb	13:38:55
2	Na 589.592 Radial†	31876.3	34014.6	9912.6 ug/L	9912.6 ppb	13:38:35
2	Sr 421.552†	77896.8	79155.1	500.00 ug/L	500.00 ppb	13:38:35
2	Sc 361.383	865655.5	865655.5	99.241 %		13:39:58
2	Y 371.029	716409.1	716409.1	97.671 %		13:39:58
2	Ag 328.068†	111846.8	112322.9	502.90 ug/L	502.90 ppb	13:40:03
2	As 188.979†	1181.6	1214.1	497.20 ug/L	497.20 ppb	13:40:24
2	B 249.677†	22274.4	23081.6	500.97 ug/L	500.97 ppb	13:40:03
2	Ba 233.527†	65599.4	66109.9	498.41 ug/L	498.41 ppb	13:40:03
2	Be 313.107†	1365515.5	1380283.9	491.30 ug/L	491.30 ppb	13:39:58
2	Cd 226.502†	46275.8	46832.3	495.84 ug/L	495.84 ppb	13:40:03
2	Co 228.616†	25049.7	25319.8	496.82 ug/L	496.82 ppb	13:40:03
2	Cr 267.716†	45930.7	46208.8	494.39 ug/L	494.39 ppb	13:40:03
2	Cu 324.752†	175785.2	170583.6	494.77 ug/L	494.77 ppb	13:40:03
2	Mn 257.610†	462678.7	465737.1	493.09 ug/L	493.09 ppb	13:39:58
2	Mo 202.031†	7268.2	7303.3	493.54 ug/L	493.54 ppb	13:40:24
2	Ni 231.604†	20845.7	20910.9	497.46 ug/L	497.46 ppb	13:40:03

2	P 214.914†	4446.8	4269.3	2361.1 ug/L	2361.1 ppb	13:40:24
2	Pb 220.353†	4131.2	4230.1	495.02 ug/L	495.02 ppb	13:40:24
2	S 181.975 Axial†	783.4	744.9	992.16 ug/L	992.16 ppb	13:40:24
2	Sb 206.836†	1510.3	1492.6	511.34 ug/L	511.34 ppb	13:40:24
2	Se 196.026†	783.4	813.5	513.41 ug/L	513.41 ppb	13:40:24
2	Si 251.611†	81116.4	81293.3	2482.8 ug/L	2482.8 ppb	13:40:03
2	Sn 189.927†	2919.8	2941.3	494.17 ug/L	494.17 ppb	13:40:24
2	Ti 334.940†	310957.2	314685.9	488.42 ug/L	488.42 ppb	13:40:03
2	Tl 190.801†	1635.7	1687.6	494.84 ug/L	494.84 ppb	13:40:24
2	U 409.014†	15296.9	17491.3	495.35 ug/L	495.35 ppb	13:40:03
2	V 292.402†	73560.5	75514.1	500.10 ug/L	500.10 ppb	13:40:03
2	Zn 213.857†	55639.1	55067.9	493.52 ug/L	493.52 ppb	13:40:03
2	SiO2†	81107.2	81268.6	5307.0 ug/L	5307.0 ppb	13:41:05
3	Sc Radial	5149.7	5149.7	97.0 %		13:39:00
3	Y RADIAL	5444.6	5444.6	95.98 %		13:39:00
3	Al 396.153Radial†	6586.8	6809.1	4940.7 ug/L	4940.7 ppb	13:39:00
3	Ca 317.933Radial†	3260.2	3340.4	5076.5 ug/L	5076.5 ppb	13:39:20
3	Fe 238.204 Radial†	615.2	624.3	5161.2 ug/L	5161.2 ppb	13:39:20
3	K 766.490 Radial†	29759.4	28039.3	5072.7 ug/L	5072.7 ppb	13:39:00
3	Mg 279.077 IEC†	163.1	164.9	5155.6 ug/L	5155.6 ppb	13:39:20
3	Na 589.592 Radial†	31423.4	34020.8	9914.4 ug/L	9914.4 ppb	13:39:00
3	Sr 421.552†	76762.7	79142.0	499.92 ug/L	499.92 ppb	13:39:00
3	Sc 361.383	865396.7	865396.7	99.211 %		13:40:29
3	Y 371.029	714248.4	714248.4	97.377 %		13:40:29
3	Ag 328.068†	110742.5	111243.6	498.10 ug/L	498.10 ppb	13:40:34
3	As 188.979†	1176.0	1208.7	495.01 ug/L	495.01 ppb	13:40:55
3	B 249.677†	22090.8	22903.2	497.08 ug/L	497.08 ppb	13:40:34
3	Ba 233.527†	64918.9	65443.8	493.39 ug/L	493.39 ppb	13:40:34
3	Be 313.107†	1363641.5	1378806.4	490.76 ug/L	490.76 ppb	13:40:29
3	Cd 226.502†	45889.5	46457.0	491.86 ug/L	491.86 ppb	13:40:34
3	Co 228.616†	24907.6	25184.0	494.17 ug/L	494.17 ppb	13:40:34
3	Cr 267.716†	45530.8	45819.5	490.22 ug/L	490.22 ppb	13:40:34
3	Cu 324.752†	173891.2	168727.6	489.40 ug/L	489.40 ppb	13:40:34
3	Mn 257.610†	464064.2	467273.0	494.72 ug/L	494.72 ppb	13:40:29
3	Mo 202.031†	7259.5	7296.6	493.10 ug/L	493.10 ppb	13:40:55
3	Ni 231.604†	20640.7	20710.6	492.69 ug/L	492.69 ppb	13:40:34
3	P 214.914†	4446.8	4270.6	2362.9 ug/L	2362.9 ppb	13:40:55
3	Pb 220.353†	4097.5	4197.5	491.21 ug/L	491.21 ppb	13:40:55
3	S 181.975 Axial†	780.9	742.6	989.08 ug/L	989.08 ppb	13:40:55
3	Sb 206.836†	1520.7	1503.6	514.93 ug/L	514.93 ppb	13:40:55
3	Se 196.026†	779.8	810.1	511.55 ug/L	511.55 ppb	13:40:55
3	Si 251.611†	80457.3	80653.4	2463.2 ug/L	2463.2 ppb	13:40:34
3	Sn 189.927†	2907.0	2929.3	492.17 ug/L	492.17 ppb	13:40:55
3	Ti 334.940†	307861.5	311659.3	483.73 ug/L	483.73 ppb	13:40:34
3	Tl 190.801†	1637.0	1689.5	495.37 ug/L	495.37 ppb	13:40:55
3	U 409.014†	15082.3	17279.6	489.33 ug/L	489.33 ppb	13:40:34
3	V 292.402†	72817.1	74786.9	495.33 ug/L	495.33 ppb	13:40:34
3	Zn 213.857†	55046.4	54487.3	488.30 ug/L	488.30 ppb	13:40:34
3	SiO2†	80888.9	81073.0	5294.2 ug/L	5294.2 ppb	13:41:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862528.2	98.882 %	0.5955			0.60%
Sc Radial	5203.2	98.0 %	0.88			0.90%
Y 371.029	712514.6	97.140 %	0.6807			0.70%
Y RADIAL	5507.4	97.09 %	0.967			1.00%
Ag 328.068†	112059.0	501.72 ug/L	3.200	501.72 ppb	3.200	0.64%
QC value within limits for Ag 328.068 Recovery = 100.34%						
Al 396.153Radial†	6773.3	4914.5 ug/L	22.69	4914.5 ppb	22.69	0.46%
QC value within limits for Al 396.153Radial Recovery = 98.29%						
As 188.979†	1215.5	497.79 ug/L	3.115	497.79 ppb	3.115	0.63%
QC value within limits for As 188.979 Recovery = 99.56%						
B 249.677†	23054.1	500.37 ug/L	3.036	500.37 ppb	3.036	0.61%
QC value within limits for B 249.677 Recovery = 100.07%						
Ba 233.527†	65934.8	497.09 ug/L	3.247	497.09 ppb	3.247	0.65%
QC value within limits for Ba 233.527 Recovery = 99.42%						
Be 313.107†	1378482.2	490.66 ug/L	0.702	490.66 ppb	0.702	0.14%
QC value within limits for Be 313.107 Recovery = 98.13%						
Ca 317.933Radial†	3291.3	5001.9 ug/L	71.68	5001.9 ppb	71.68	1.43%

QC value within limits for Ca 317.933 Radial Recovery = 100.04%							
Cd 226.502†	46778.2	495.27 ug/L	3.163	495.27 ppb	3.163	0.64%	
QC value within limits for Cd 226.502 Recovery = 99.05%							
Co 228.616†	25350.5	497.43 ug/L	3.606	497.43 ppb	3.606	0.72%	
QC value within limits for Co 228.616 Recovery = 99.49%							
Cr 267.716†	46181.9	494.10 ug/L	3.738	494.10 ppb	3.738	0.76%	
QC value within limits for Cr 267.716 Recovery = 98.82%							
Cu 324.752†	170199.3	493.66 ug/L	3.829	493.66 ppb	3.829	0.78%	
QC value within limits for Cu 324.752 Recovery = 98.73%							
Fe 238.204 Radial†	617.3	5104.0 ug/L	54.59	5104.0 ppb	54.59	1.07%	
QC value within limits for Fe 238.204 Radial Recovery = 102.08%							
K 766.490 Radial†	28062.6	5077.0 ug/L	13.66	5077.0 ppb	13.66	0.27%	
QC value within limits for K 766.490 Radial Recovery = 101.54%							
Mg 279.077 IEC†	163.3	5105.4 ug/L	47.48	5105.4 ppb	47.48	0.93%	
QC value within limits for Mg 279.077 IEC Recovery = 102.11%							
Mn 257.610†	466315.9	493.71 ug/L	0.886	493.71 ppb	0.886	0.18%	
QC value within limits for Mn 257.610 Recovery = 98.74%							
Mo 202.031†	7316.2	494.41 ug/L	1.908	494.41 ppb	1.908	0.39%	
QC value within limits for Mo 202.031 Recovery = 98.88%							
Na 589.592 Radial†	34018.7	9913.8 ug/L	1.01	9913.8 ppb	1.01	0.01%	
QC value within limits for Na 589.592 Radial Recovery = 99.14%							
Ni 231.604†	20857.8	496.20 ug/L	3.072	496.20 ppb	3.072	0.62%	
QC value within limits for Ni 231.604 Recovery = 99.24%							
P 214.914†	4273.9	2364.0 ug/L	3.62	2364.0 ppb	3.62	0.15%	
QC value within limits for P 214.914 Recovery = 94.56%							
Pb 220.353†	4224.4	494.36 ug/L	2.873	494.36 ppb	2.873	0.58%	
QC value within limits for Pb 220.353 Recovery = 98.87%							
S 181.975 Axial†	744.8	992.08 ug/L	2.963	992.08 ppb	2.963	0.30%	
QC value within limits for S 181.975 Axial Recovery = 99.21%							
Sb 206.836†	1499.9	513.77 ug/L	2.103	513.77 ppb	2.103	0.41%	
QC value within limits for Sb 206.836 Recovery = 102.75%							
Se 196.026†	815.0	514.34 ug/L	3.344	514.34 ppb	3.344	0.65%	
QC value within limits for Se 196.026 Recovery = 102.87%							
Si 251.611†	81199.2	2479.9 ug/L	15.45	2479.9 ppb	15.45	0.62%	
QC value within limits for Si 251.611 Recovery = 99.20%							
Sn 189.927†	2945.5	494.87 ug/L	3.109	494.87 ppb	3.109	0.63%	
QC value within limits for Sn 189.927 Recovery = 98.97%							
Sr 421.552†	79066.8	499.44 ug/L	0.894	499.44 ppb	0.894	0.18%	
QC value within limits for Sr 421.552 Recovery = 99.89%							
Ti 334.940†	314013.8	487.37 ug/L	3.252	487.37 ppb	3.252	0.67%	
QC value within limits for Ti 334.940 Recovery = 97.47%							
Tl 190.801†	1692.3	496.19 ug/L	1.894	496.19 ppb	1.894	0.38%	
QC value within limits for Tl 190.801 Recovery = 99.24%							
U 409.014†	17467.7	494.68 ug/L	5.043	494.68 ppb	5.043	1.02%	
QC value within limits for U 409.014 Recovery = 98.94%							
V 292.402†	75366.1	499.14 ug/L	3.439	499.14 ppb	3.439	0.69%	
QC value within limits for V 292.402 Recovery = 99.83%							
Zn 213.857†	54920.2	492.20 ug/L	3.426	492.20 ppb	3.426	0.70%	
QC value within limits for Zn 213.857 Recovery = 98.44%							
SiO2†	81595.1	5328.4 ug/L	48.49	5328.4 ppb	48.49	0.91%	
QC value within limits for SiO2 Recovery = 99.64%							
All analyte(s) passed QC.							

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/13/2010 13:43:21

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	5285.9	5285.9	99.5 %		13:45:13
1	Y RADIAL	5624.3	5624.3	99.15 %		13:45:13
1	Al 396.153Radial†	-0.6	16.1	11.778 ug/L	11.778 ppb	13:45:13
1	Ca 317.933Radial†	18.3	-3.1	-4.7844 ug/L	-4.7844 ppb	13:45:33
1	Fe 238.204 Radial†	10.5	0.4	3.2714 ug/L	3.2714 ppb	13:45:33
1	K 766.490 Radial†	2818.0	182.4	33.019 ug/L	33.019 ppb	13:45:13
1	Mg 279.077 IEC†	1.2	-2.0	-61.804 ug/L	-61.804 ppb	13:45:33
1	Na 589.592 Radial†	-1483.6	126.6	36.882 ug/L	36.882 ppb	13:45:13
1	Sr 421.552†	7.0	-8.7	-0.0547 ug/L	-0.0547 ppb	13:45:13
1	Sc 361.383	865115.9	865115.9	99.179 %		13:46:30
1	Y 371.029	727455.6	727455.6	99.177 %		13:46:30
1	Ag 328.068†	382.0	5.9	0.0268 ug/L	0.0268 ppb	13:46:30
1	As 188.979†	-25.4	-2.2	-0.8726 ug/L	-0.8726 ppb	13:46:50
1	B 249.677†	-62.6	573.7	12.507 ug/L	12.507 ppb	13:46:50
1	Ba 233.527†	-18.7	-10.1	-0.0754 ug/L	-0.0754 ppb	13:46:50
1	Be 313.107†	-4363.3	-75.0	-0.0264 ug/L	-0.0264 ppb	13:46:30
1	Cd 226.502†	-169.0	32.2	0.3405 ug/L	0.3405 ppb	13:46:50
1	Co 228.616†	-78.6	-0.8	-0.0166 ug/L	-0.0166 ppb	13:46:50
1	Cr 267.716†	91.6	19.2	0.2047 ug/L	0.2047 ppb	13:46:50
1	Cu 324.752†	6508.1	16.0	0.0461 ug/L	0.0461 ppb	13:46:30
1	Mn 257.610†	401.5	-75.6	-0.0771 ug/L	-0.0771 ppb	13:46:50
1	Mo 202.031†	14.5	-5.9	-0.4000 ug/L	-0.4000 ppb	13:46:50
1	Ni 231.604†	84.2	-9.3	-0.2219 ug/L	-0.2219 ppb	13:46:50
1	P 214.914†	216.8	7.1	4.0821 ug/L	4.0821 ppb	13:46:50
1	Pb 220.353†	-58.9	8.0	0.9338 ug/L	0.9338 ppb	13:46:50
1	S 181.975 Axial†	42.7	-1.5	-1.9440 ug/L	-1.9440 ppb	13:46:50
1	Sb 206.836†	42.0	13.1	4.3500 ug/L	4.3500 ppb	13:46:50
1	Se 196.026†	-25.7	-1.8	-1.0718 ug/L	-1.0718 ppb	13:46:50
1	Si 251.611†	453.3	13.6	0.4217 ug/L	0.4217 ppb	13:46:50
1	Sn 189.927†	11.2	10.5	1.7680 ug/L	1.7680 ppb	13:46:50
1	Ti 334.940†	-1266.4	73.5	0.1180 ug/L	0.1180 ppb	13:46:30
1	Tl 190.801†	-34.3	4.9	1.4319 ug/L	1.4319 ppb	13:46:50
1	U 409.014†	-2025.7	35.0	0.9929 ug/L	0.9929 ppb	13:46:30
1	V 292.402†	-1372.0	7.6	0.0438 ug/L	0.0438 ppb	13:46:30
1	Zn 213.857†	675.5	-315.6	-2.8526 ug/L	-2.8526 ppb	13:46:50
1	SiO2†	462.4	7.3	0.4893 ug/L	0.4893 ppb	13:47:46
2	Sc Radial	5289.0	5289.0	99.6 %		13:45:38
2	Y RADIAL	5621.6	5621.6	99.11 %		13:45:38
2	Al 396.153Radial†	-10.8	5.9	4.2795 ug/L	4.2795 ppb	13:45:38
2	Ca 317.933Radial†	23.8	2.4	3.5865 ug/L	3.5865 ppb	13:45:58
2	Fe 238.204 Radial†	10.2	0.1	0.7733 ug/L	0.7733 ppb	13:45:58
2	K 766.490 Radial†	2967.4	330.8	59.898 ug/L	59.898 ppb	13:45:38
2	Mg 279.077 IEC†	1.6	-1.7	-51.824 ug/L	-51.824 ppb	13:45:58
2	Na 589.592 Radial†	-1430.4	180.8	52.680 ug/L	52.680 ppb	13:45:38
2	Sr 421.552†	21.9	6.3	0.0397 ug/L	0.0397 ppb	13:45:38
2	Sc 361.383	862528.4	862528.4	98.882 %		13:46:55
2	Y 371.029	724793.5	724793.5	98.814 %		13:46:55
2	Ag 328.068†	246.4	-130.1	-0.5771 ug/L	-0.5771 ppb	13:46:55
2	As 188.979†	-22.3	0.9	0.3445 ug/L	0.3445 ppb	13:47:15
2	B 249.677†	-97.5	538.2	11.732 ug/L	11.732 ppb	13:47:15
2	Ba 233.527†	-8.2	0.6	0.0057 ug/L	0.0057 ppb	13:47:15
2	Be 313.107†	-4363.4	-88.3	-0.0311 ug/L	-0.0311 ppb	13:46:55
2	Cd 226.502†	-187.1	13.4	0.1422 ug/L	0.1422 ppb	13:47:15
2	Co 228.616†	-62.9	14.8	0.2923 ug/L	0.2923 ppb	13:47:15
2	Cr 267.716†	115.1	43.1	0.4615 ug/L	0.4615 ppb	13:47:15
2	Cu 324.752†	6565.7	93.9	0.2719 ug/L	0.2719 ppb	13:46:55
2	Mn 257.610†	432.2	-43.4	-0.0437 ug/L	-0.0437 ppb	13:47:15
2	Mo 202.031†	31.8	11.6	0.7816 ug/L	0.7816 ppb	13:47:15
2	Ni 231.604†	94.4	1.3	0.0304 ug/L	0.0304 ppb	13:47:15

2	P 214.914†	212.1	3.0	1.7068 ug/L	1.7068 ppb	13:47:15
2	Pb 220.353†	-62.8	3.8	0.4504 ug/L	0.4504 ppb	13:47:15
2	S 181.975 Axial†	47.3	3.3	4.4149 ug/L	4.4149 ppb	13:47:15
2	Sb 206.836†	39.4	10.7	3.5710 ug/L	3.5710 ppb	13:47:15
2	Se 196.026†	-30.8	-7.0	-4.2555 ug/L	-4.2555 ppb	13:47:15
2	Si 251.611†	443.7	5.3	0.1528 ug/L	0.1528 ppb	13:47:15
2	Sn 189.927†	10.9	10.2	1.7147 ug/L	1.7147 ppb	13:47:15
2	Ti 334.940†	-1264.3	71.8	0.1156 ug/L	0.1156 ppb	13:46:55
2	Tl 190.801†	-36.7	2.4	0.6894 ug/L	0.6894 ppb	13:47:15
2	U 409.014†	-2020.4	34.2	0.9713 ug/L	0.9713 ppb	13:46:55
2	V 292.402†	-1286.8	89.6	0.5971 ug/L	0.5971 ppb	13:46:55
2	Zn 213.857†	698.4	-290.4	-2.6260 ug/L	-2.6260 ppb	13:47:15
2	SiO2†	487.4	34.0	2.2022 ug/L	2.2022 ppb	13:47:51
3	Sc Radial	5271.2	5271.2	99.3 %		13:46:03
3	Y RADIAL	5605.2	5605.2	98.82 %		13:46:03
3	Al 396.153Radial†	-3.0	13.7	9.9732 ug/L	9.9732 ppb	13:46:03
3	Ca 317.933Radial†	20.8	-0.6	-0.8501 ug/L	-0.8501 ppb	13:46:23
3	Fe 238.204 Radial†	8.8	-1.3	-10.985 ug/L	-10.985 ppb	13:46:23
3	K 766.490 Radial†	2917.7	290.8	52.656 ug/L	52.656 ppb	13:46:03
3	Mg 279.077 IEC†	3.8	0.6	18.443 ug/L	18.443 ppb	13:46:23
3	Na 589.592 Radial†	-1413.7	192.8	56.183 ug/L	56.183 ppb	13:46:03
3	Sr 421.552†	2.8	-12.9	-0.0813 ug/L	-0.0813 ppb	13:46:03
3	Sc 361.383	850606.1	850606.1	97.516 %		13:47:21
3	Y 371.029	715373.0	715373.0	97.530 %		13:47:21
3	Ag 328.068†	323.3	-47.7	-0.2173 ug/L	-0.2173 ppb	13:47:21
3	As 188.979†	-18.0	5.0	2.0169 ug/L	2.0169 ppb	13:47:41
3	B 249.677†	-112.4	521.5	11.371 ug/L	11.371 ppb	13:47:41
3	Ba 233.527†	-2.7	6.0	0.0445 ug/L	0.0445 ppb	13:47:41
3	Be 313.107†	-4288.2	-73.0	-0.0264 ug/L	-0.0264 ppb	13:47:21
3	Cd 226.502†	-183.6	14.4	0.1533 ug/L	0.1533 ppb	13:47:41
3	Co 228.616†	-66.5	10.2	0.2024 ug/L	0.2024 ppb	13:47:41
3	Cr 267.716†	89.2	18.3	0.1945 ug/L	0.1945 ppb	13:47:41
3	Cu 324.752†	6555.3	176.3	0.5106 ug/L	0.5106 ppb	13:47:21
3	Mn 257.610†	420.6	-49.0	-0.0537 ug/L	-0.0537 ppb	13:47:41
3	Mo 202.031†	26.6	6.8	0.4554 ug/L	0.4554 ppb	13:47:41
3	Ni 231.604†	78.7	-13.5	-0.3221 ug/L	-0.3221 ppb	13:47:41
3	P 214.914†	213.5	7.4	4.1957 ug/L	4.1957 ppb	13:47:41
3	Pb 220.353†	-84.4	-19.2	-2.2401 ug/L	-2.2401 ppb	13:47:41
3	S 181.975 Axial†	44.5	1.1	1.4285 ug/L	1.4285 ppb	13:47:41
3	Sb 206.836†	37.4	9.1	3.0483 ug/L	3.0483 ppb	13:47:41
3	Se 196.026†	-27.6	-4.1	-2.5412 ug/L	-2.5412 ppb	13:47:41
3	Si 251.611†	448.4	16.4	0.4970 ug/L	0.4970 ppb	13:47:41
3	Sn 189.927†	10.5	10.0	1.6774 ug/L	1.6774 ppb	13:47:41
3	Ti 334.940†	-1434.0	-120.2	-0.1885 ug/L	-0.1885 ppb	13:47:21
3	Tl 190.801†	-24.3	14.6	4.2471 ug/L	4.2471 ppb	13:47:41
3	U 409.014†	-2008.0	18.3	0.5196 ug/L	0.5196 ppb	13:47:21
3	V 292.402†	-1395.3	-39.9	-0.2513 ug/L	-0.2513 ppb	13:47:21
3	Zn 213.857†	679.9	-299.5	-2.7056 ug/L	-2.7056 ppb	13:47:41
3	SiO2†	498.2	52.0	3.3904 ug/L	3.3904 ppb	13:47:56

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859416.8	98.526 %		0.8872			0.90%
Sc Radial	5282.0	99.5 %		0.18			0.18%
Y 371.029	722540.7	98.507 %		0.8655			0.88%
Y RADIAL	5617.0	99.02 %		0.182			0.18%
Ag 328.068†	-57.3	-0.2559 ug/L		0.30379	-0.2559 ppb	0.30379	118.72%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	11.9	8.6770 ug/L		3.91383	8.6770 ppb	3.91383	45.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.2	0.4963 ug/L		1.45069	0.4963 ppb	1.45069	292.33%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	544.5	11.870 ug/L		0.5804	11.870 ppb	0.5804	4.89%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-1.1	-0.0084 ug/L		0.06122	-0.0084 ppb	0.06122	728.06%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-78.8	-0.0279 ug/L		0.00274	-0.0279 ppb	0.00274	9.80%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.4	-0.6827 ug/L		4.18799	-0.6827 ppb	4.18799	613.47%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	20.0	0.2120 ug/L	0.11143	0.2120 ppb	0.11143	52.56%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.1	0.1594 ug/L	0.15891	0.1594 ppb	0.15891	99.71%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	26.9	0.2869 ug/L	0.15130	0.2869 ppb	0.15130	52.73%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	95.4	0.2762 ug/L	0.23229	0.2762 ppb	0.23229	84.11%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.3	-2.3133 ug/L	7.61274	-2.3133 ppb	7.61274	329.09%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	268.0	48.524 ug/L	13.9074	48.524 ppb	13.9074	28.66%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.0	-31.729 ug/L	43.7350	-31.729 ppb	43.7350	137.84%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-56.0	-0.0582 ug/L	0.01717	-0.0582 ppb	0.01717	29.51%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.1	0.2790 ug/L	0.61020	0.2790 ppb	0.61020	218.72%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	166.7	48.582 ug/L	10.2822	48.582 ppb	10.2822	21.16%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-7.2	-0.1712 ug/L	0.18163	-0.1712 ppb	0.18163	106.11%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	5.8	3.3282 ug/L	1.40531	3.3282 ppb	1.40531	42.22%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-2.5	-0.2853 ug/L	1.71011	-0.2853 ppb	1.71011	599.40%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.0	1.2998 ug/L	3.18138	1.2998 ppb	3.18138	244.75%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	11.0	3.6564 ug/L	0.65501	3.6564 ppb	0.65501	17.91%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-4.3	-2.6228 ug/L	1.59340	-2.6228 ppb	1.59340	60.75%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	11.8	0.3572 ug/L	0.18096	0.3572 ppb	0.18096	50.67%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	10.3	1.7201 ug/L	0.04553	1.7201 ppb	0.04553	2.65%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-5.1	-0.0321 ug/L	0.06356	-0.0321 ppb	0.06356	198.05%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	8.4	0.0150 ug/L	0.17626	0.0150 ppb	0.17626	>999.9%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.3	2.1228 ug/L	1.87681	2.1228 ppb	1.87681	88.41%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	29.2	0.8280 ug/L	0.26723	0.8280 ppb	0.26723	32.28%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	19.1	0.1299 ug/L	0.43071	0.1299 ppb	0.43071	331.61%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-301.9	-2.7281 ug/L	0.11494	-2.7281 ppb	0.11494	4.21%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	31.1	2.0273 ug/L	1.45842	2.0273 ppb	1.45842	71.94%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/13/2010 14:37:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5117.0	5117.0	96.4 %		14:39:38
1	Y RADIAL	5441.1	5441.1	95.92 %		14:39:38
1	Al 396.153Radial†	6571.6	6836.6	4960.7 ug/L	4960.7 ppb	14:39:38
1	Ca 317.933Radial†	3255.1	3356.5	5101.1 ug/L	5101.1 ppb	14:39:58
1	Fe 238.204 Radial†	609.6	622.5	5146.7 ug/L	5146.7 ppb	14:39:58
1	K 766.490 Radial†	29652.5	28124.3	5088.1 ug/L	5088.1 ppb	14:39:38
1	Mg 279.077 IEC†	163.0	166.0	5188.6 ug/L	5188.6 ppb	14:39:58
1	Na 589.592 Radial†	31376.4	34178.9	9960.5 ug/L	9960.5 ppb	14:39:38
1	Sr 421.552†	76792.5	79678.4	503.30 ug/L	503.30 ppb	14:39:38
1	Sc 361.383	869172.0	869172.0	99.644 %		14:40:55
1	Y 371.029	717962.3	717962.3	97.883 %		14:40:55
1	Ag 328.068†	111238.9	111256.9	498.15 ug/L	498.15 ppb	14:41:00
1	As 188.979†	1171.5	1199.1	491.10 ug/L	491.10 ppb	14:41:20
1	B 249.677†	21788.7	22503.3	488.36 ug/L	488.36 ppb	14:41:00
1	Ba 233.527†	65237.5	65479.3	493.66 ug/L	493.66 ppb	14:41:00
1	Be 313.107†	1365209.9	1374410.2	489.20 ug/L	489.20 ppb	14:40:55
1	Cd 226.502†	46102.6	46469.8	491.99 ug/L	491.99 ppb	14:41:00
1	Co 228.616†	25089.4	25257.4	495.61 ug/L	495.61 ppb	14:41:00
1	Cr 267.716†	45682.9	45772.8	489.72 ug/L	489.72 ppb	14:41:00
1	Cu 324.752†	175299.1	169379.2	491.28 ug/L	491.28 ppb	14:41:00
1	Mn 257.610†	463961.7	465138.4	492.46 ug/L	492.46 ppb	14:40:55
1	Mo 202.031†	7297.2	7302.7	493.51 ug/L	493.51 ppb	14:41:20
1	Ni 231.604†	20667.0	20646.6	491.17 ug/L	491.17 ppb	14:41:00
1	P 214.914†	4463.0	4267.4	2360.7 ug/L	2360.7 ppb	14:41:20
1	Pb 220.353†	4130.3	4212.4	492.96 ug/L	492.96 ppb	14:41:20
1	S 181.975 Axial†	775.7	734.0	977.61 ug/L	977.61 ppb	14:41:20
1	Sb 206.836†	1515.5	1491.7	511.01 ug/L	511.01 ppb	14:41:20
1	Se 196.026†	777.1	804.1	507.82 ug/L	507.82 ppb	14:41:20
1	Si 251.611†	80919.5	80765.1	2466.6 ug/L	2466.6 ppb	14:41:00
1	Sn 189.927†	2917.5	2927.2	491.81 ug/L	491.81 ppb	14:41:20
1	Ti 334.940†	309479.4	311935.1	484.15 ug/L	484.15 ppb	14:41:00
1	Tl 190.801†	1646.6	1691.9	496.06 ug/L	496.06 ppb	14:41:20
1	U 409.014†	15279.9	17411.9	493.10 ug/L	493.10 ppb	14:41:00
1	V 292.402†	73026.8	74678.5	494.63 ug/L	494.63 ppb	14:41:00
1	Zn 213.857†	55303.2	54504.0	488.46 ug/L	488.46 ppb	14:41:00
1	SiO2†	80190.8	80018.3	5225.2 ug/L	5225.2 ppb	14:42:28
2	Sc Radial	5248.7	5248.7	98.8 %		14:40:03
2	Y RADIAL	5527.9	5527.9	97.45 %		14:40:03
2	Al 396.153Radial†	6697.5	6793.0	4928.8 ug/L	4928.8 ppb	14:40:03
2	Ca 317.933Radial†	3233.5	3249.9	4939.0 ug/L	4939.0 ppb	14:40:23
2	Fe 238.204 Radial†	605.0	601.9	4977.0 ug/L	4977.0 ppb	14:40:23
2	K 766.490 Radial†	30150.2	27855.9	5039.6 ug/L	5039.6 ppb	14:40:03
2	Mg 279.077 IEC†	164.5	163.2	5101.7 ug/L	5101.7 ppb	14:40:23
2	Na 589.592 Radial†	32129.3	34123.9	9944.4 ug/L	9944.4 ppb	14:40:03
2	Sr 421.552†	78376.8	79282.3	500.80 ug/L	500.80 ppb	14:40:03
2	Sc 361.383	867588.9	867588.9	99.463 %		14:41:26
2	Y 371.029	716262.1	716262.1	97.651 %		14:41:26
2	Ag 328.068†	110087.8	110303.3	493.84 ug/L	493.84 ppb	14:41:31
2	As 188.979†	1179.4	1209.2	495.10 ug/L	495.10 ppb	14:41:51
2	B 249.677†	21542.5	22295.7	483.87 ug/L	483.87 ppb	14:41:31
2	Ba 233.527†	64682.8	65041.1	490.35 ug/L	490.35 ppb	14:41:31
2	Be 313.107†	1363993.8	1375687.6	489.65 ug/L	489.65 ppb	14:41:26
2	Cd 226.502†	45822.2	46272.4	489.92 ug/L	489.92 ppb	14:41:31
2	Co 228.616†	24808.8	25021.3	490.99 ug/L	490.99 ppb	14:41:31
2	Cr 267.716†	45396.7	45568.8	487.53 ug/L	487.53 ppb	14:41:31
2	Cu 324.752†	172620.5	167007.2	484.39 ug/L	484.39 ppb	14:41:31
2	Mn 257.610†	463651.9	465676.5	493.02 ug/L	493.02 ppb	14:41:26
2	Mo 202.031†	7307.1	7326.0	495.07 ug/L	495.07 ppb	14:41:51
2	Ni 231.604†	20615.9	20633.1	490.85 ug/L	490.85 ppb	14:41:31

2	P 214.914†	4478.7	4291.4	2376.0 ug/L	2376.0 ppb	14:41:51
2	Pb 220.353†	4154.7	4244.5	496.72 ug/L	496.72 ppb	14:41:51
2	S 181.975 Axial†	782.8	742.5	989.03 ug/L	989.03 ppb	14:41:51
2	Sb 206.836†	1532.0	1511.0	517.53 ug/L	517.53 ppb	14:41:51
2	Se 196.026†	791.1	819.5	516.69 ug/L	516.69 ppb	14:41:51
2	Si 251.611†	79947.9	79936.4	2441.3 ug/L	2441.3 ppb	14:41:31
2	Sn 189.927†	2955.3	2970.5	499.05 ug/L	499.05 ppb	14:41:51
2	Ti 334.940†	306124.8	309129.1	479.78 ug/L	479.78 ppb	14:41:31
2	Tl 190.801†	1659.8	1708.3	500.82 ug/L	500.82 ppb	14:41:51
2	U 409.014†	15263.8	17423.6	493.45 ug/L	493.45 ppb	14:41:31
2	V 292.402†	72556.6	74339.5	492.47 ug/L	492.47 ppb	14:41:31
2	Zn 213.857†	54840.0	54139.6	485.20 ug/L	485.20 ppb	14:41:31
2	SiO2†	80525.8	80502.0	5256.8 ug/L	5256.8 ppb	14:42:33
3	Sc Radial	5209.9	5209.9	98.1 %		14:40:28
3	Y RADIAL	5467.1	5467.1	96.38 %		14:40:28
3	Al 396.153Radial†	6624.1	6768.7	4911.2 ug/L	4911.2 ppb	14:40:28
3	Ca 317.933Radial†	3218.9	3259.4	4953.5 ug/L	4953.5 ppb	14:40:48
3	Fe 238.204 Radial†	602.3	603.7	4991.8 ug/L	4991.8 ppb	14:40:48
3	K 766.490 Radial†	30182.3	28115.8	5086.6 ug/L	5086.6 ppb	14:40:28
3	Mg 279.077 IEC†	165.1	165.0	5158.6 ug/L	5158.6 ppb	14:40:48
3	Na 589.592 Radial†	31886.4	34118.5	9942.9 ug/L	9942.9 ppb	14:40:28
3	Sr 421.552†	78074.0	79564.3	502.58 ug/L	502.58 ppb	14:40:28
3	Sc 361.383	865228.4	865228.4	99.192 %		14:41:57
3	Y 371.029	713978.9	713978.9	97.340 %		14:41:57
3	Ag 328.068†	109952.9	110469.2	494.59 ug/L	494.59 ppb	14:42:02
3	As 188.979†	1173.2	1206.2	493.90 ug/L	493.90 ppb	14:42:22
3	B 249.677†	21549.8	22362.1	485.31 ug/L	485.31 ppb	14:42:02
3	Ba 233.527†	64722.4	65258.5	491.99 ug/L	491.99 ppb	14:42:02
3	Be 313.107†	1360426.2	1375832.3	489.70 ug/L	489.70 ppb	14:41:57
3	Cd 226.502†	45661.8	46236.4	489.54 ug/L	489.54 ppb	14:42:02
3	Co 228.616†	24863.6	25144.6	493.40 ug/L	493.40 ppb	14:42:02
3	Cr 267.716†	45296.7	45592.4	487.79 ug/L	487.79 ppb	14:42:02
3	Cu 324.752†	172205.2	167061.9	484.56 ug/L	484.56 ppb	14:42:02
3	Mn 257.610†	463401.6	466695.9	494.09 ug/L	494.09 ppb	14:41:57
3	Mo 202.031†	7251.2	7289.7	492.62 ug/L	492.62 ppb	14:42:22
3	Ni 231.604†	20508.0	20580.8	489.61 ug/L	489.61 ppb	14:42:02
3	P 214.914†	4436.7	4261.4	2358.6 ug/L	2358.6 ppb	14:42:22
3	Pb 220.353†	4119.4	4220.3	493.89 ug/L	493.89 ppb	14:42:22
3	S 181.975 Axial†	787.8	749.7	998.58 ug/L	998.58 ppb	14:42:22
3	Sb 206.836†	1512.3	1495.4	512.21 ug/L	512.21 ppb	14:42:22
3	Se 196.026†	776.9	807.4	509.33 ug/L	509.33 ppb	14:42:22
3	Si 251.611†	79831.6	80038.5	2444.4 ug/L	2444.4 ppb	14:42:02
3	Sn 189.927†	2915.1	2938.1	493.62 ug/L	493.62 ppb	14:42:22
3	Ti 334.940†	305775.5	309616.6	480.54 ug/L	480.54 ppb	14:42:02
3	Tl 190.801†	1636.1	1688.9	495.17 ug/L	495.17 ppb	14:42:22
3	U 409.014†	15019.8	17219.5	487.65 ug/L	487.65 ppb	14:42:02
3	V 292.402†	72309.3	74289.2	492.09 ug/L	492.09 ppb	14:42:02
3	Zn 213.857†	54670.9	54119.5	485.02 ug/L	485.02 ppb	14:42:02
3	SiO2†	81426.7	81631.1	5330.8 ug/L	5330.8 ppb	14:42:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867329.7	99.433 %	0.2275			0.23%
Sc Radial	5191.8	97.8 %	1.27			1.30%
Y 371.029	716067.8	97.625 %	0.2725			0.28%
Y RADIAL	5478.7	96.59 %	0.785			0.81%
Ag 328.068†	110676.5	495.53 ug/L	2.300	495.53 ppb	2.300	0.46%
QC value within limits for Ag 328.068 Recovery = 99.11%						
Al 396.153Radial†	6799.4	4933.6 ug/L	25.10	4933.6 ppb	25.10	0.51%
QC value within limits for Al 396.153Radial Recovery = 98.67%						
As 188.979†	1204.8	493.37 ug/L	2.056	493.37 ppb	2.056	0.42%
QC value within limits for As 188.979 Recovery = 98.67%						
B 249.677†	22387.0	485.85 ug/L	2.290	485.85 ppb	2.290	0.47%
QC value within limits for B 249.677 Recovery = 97.17%						
Ba 233.527†	65259.6	492.00 ug/L	1.653	492.00 ppb	1.653	0.34%
QC value within limits for Ba 233.527 Recovery = 98.40%						
Be 313.107†	1375310.0	489.52 ug/L	0.273	489.52 ppb	0.273	0.06%
QC value within limits for Be 313.107 Recovery = 97.90%						
Ca 317.933Radial†	3288.6	4997.9 ug/L	89.68	4997.9 ppb	89.68	1.79%

QC value within limits for Ca 317.933 Radial Recovery = 99.96%							
Cd 226.502†	46326.2	490.48 ug/L	1.323	490.48 ppb	1.323	0.27%	
QC value within limits for Cd 226.502 Recovery = 98.10%							
Co 228.616†	25141.1	493.33 ug/L	2.309	493.33 ppb	2.309	0.47%	
QC value within limits for Co 228.616 Recovery = 98.67%							
Cr 267.716†	45644.7	488.35 ug/L	1.196	488.35 ppb	1.196	0.24%	
QC value within limits for Cr 267.716 Recovery = 97.67%							
Cu 324.752†	167816.1	486.74 ug/L	3.931	486.74 ppb	3.931	0.81%	
QC value within limits for Cu 324.752 Recovery = 97.35%							
Fe 238.204 Radial†	609.4	5038.5 ug/L	93.96	5038.5 ppb	93.96	1.86%	
QC value within limits for Fe 238.204 Radial Recovery = 100.77%							
K 766.490 Radial†	28032.0	5071.4 ug/L	27.62	5071.4 ppb	27.62	0.54%	
QC value within limits for K 766.490 Radial Recovery = 101.43%							
Mg 279.077 IEC†	164.7	5149.6 ug/L	44.14	5149.6 ppb	44.14	0.86%	
QC value within limits for Mg 279.077 IEC Recovery = 102.99%							
Mn 257.610†	465836.9	493.19 ug/L	0.831	493.19 ppb	0.831	0.17%	
QC value within limits for Mn 257.610 Recovery = 98.64%							
Mo 202.031†	7306.1	493.73 ug/L	1.241	493.73 ppb	1.241	0.25%	
QC value within limits for Mo 202.031 Recovery = 98.75%							
Na 589.592 Radial†	34140.4	9949.3 ug/L	9.74	9949.3 ppb	9.74	0.10%	
QC value within limits for Na 589.592 Radial Recovery = 99.49%							
Ni 231.604†	20620.2	490.54 ug/L	0.827	490.54 ppb	0.827	0.17%	
QC value within limits for Ni 231.604 Recovery = 98.11%							
P 214.914†	4273.4	2365.1 ug/L	9.52	2365.1 ppb	9.52	0.40%	
QC value within limits for P 214.914 Recovery = 94.60%							
Pb 220.353†	4225.7	494.52 ug/L	1.959	494.52 ppb	1.959	0.40%	
QC value within limits for Pb 220.353 Recovery = 98.90%							
S 181.975 Axial†	742.1	988.41 ug/L	10.498	988.41 ppb	10.498	1.06%	
QC value within limits for S 181.975 Axial Recovery = 98.84%							
Sb 206.836†	1499.4	513.58 ug/L	3.470	513.58 ppb	3.470	0.68%	
QC value within limits for Sb 206.836 Recovery = 102.72%							
Se 196.026†	810.3	511.28 ug/L	4.749	511.28 ppb	4.749	0.93%	
QC value within limits for Se 196.026 Recovery = 102.26%							
Si 251.611†	80246.6	2450.8 ug/L	13.84	2450.8 ppb	13.84	0.56%	
QC value within limits for Si 251.611 Recovery = 98.03%							
Sn 189.927†	2945.3	494.83 ug/L	3.768	494.83 ppb	3.768	0.76%	
QC value within limits for Sn 189.927 Recovery = 98.97%							
Sr 421.552†	79508.3	502.23 ug/L	1.288	502.23 ppb	1.288	0.26%	
QC value within limits for Sr 421.552 Recovery = 100.45%							
Ti 334.940†	310226.9	481.49 ug/L	2.336	481.49 ppb	2.336	0.49%	
QC value within limits for Ti 334.940 Recovery = 96.30%							
Tl 190.801†	1696.4	497.35 ug/L	3.036	497.35 ppb	3.036	0.61%	
QC value within limits for Tl 190.801 Recovery = 99.47%							
U 409.014†	17351.7	491.40 ug/L	3.251	491.40 ppb	3.251	0.66%	
QC value within limits for U 409.014 Recovery = 98.28%							
V 292.402†	74435.7	493.06 ug/L	1.371	493.06 ppb	1.371	0.28%	
QC value within limits for V 292.402 Recovery = 98.61%							
Zn 213.857†	54254.3	486.23 ug/L	1.938	486.23 ppb	1.938	0.40%	
QC value within limits for Zn 213.857 Recovery = 97.25%							
SiO2†	80717.1	5270.9 ug/L	54.20	5270.9 ppb	54.20	1.03%	
QC value within limits for SiO2 Recovery = 98.57%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/13/2010 14:44:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5205.4	5205.4	98.0 %		14:46:41
1	Y RADIAL	5575.9	5575.9	98.30 %		14:46:41
1	Al 396.153Radial†	-23.5	-7.3	-5.3087 ug/L	-5.3087 ppb	14:46:41
1	Ca 317.933Radial†	17.2	-4.0	-6.1340 ug/L	-6.1340 ppb	14:47:01
1	Fe 238.204 Radial†	10.2	0.3	2.2618 ug/L	2.2618 ppb	14:47:01
1	K 766.490 Radial†	2816.5	224.6	40.669 ug/L	40.669 ppb	14:46:41
1	Mg 279.077 IEC†	0.7	-2.5	-78.470 ug/L	-78.470 ppb	14:47:01
1	Na 589.592 Radial†	-1440.5	147.4	42.970 ug/L	42.970 ppb	14:46:41
1	Sr 421.552†	-4.7	-20.5	-0.1293 ug/L	-0.1293 ppb	14:46:41
1	Sc 361.383	865091.8	865091.8	99.176 %		14:47:57
1	Y 371.029	727896.2	727896.2	99.238 %		14:47:57
1	Ag 328.068†	355.2	-21.1	-0.0922 ug/L	-0.0922 ppb	14:47:57
1	As 188.979†	-19.0	4.2	1.7228 ug/L	1.7228 ppb	14:48:17
1	B 249.677†	-338.6	295.4	6.4392 ug/L	6.4392 ppb	14:48:17
1	Ba 233.527†	-8.9	-0.2	-0.0003 ug/L	-0.0003 ppb	14:48:17
1	Be 313.107†	-4346.2	-57.9	-0.0204 ug/L	-0.0204 ppb	14:47:57
1	Cd 226.502†	-192.9	8.1	0.0860 ug/L	0.0860 ppb	14:48:17
1	Co 228.616†	-68.1	9.8	0.1922 ug/L	0.1922 ppb	14:48:17
1	Cr 267.716†	115.7	43.5	0.4648 ug/L	0.4648 ppb	14:48:17
1	Cu 324.752†	6592.6	101.4	0.2934 ug/L	0.2934 ppb	14:47:57
1	Mn 257.610†	399.2	-77.9	-0.0789 ug/L	-0.0789 ppb	14:48:17
1	Mo 202.031†	26.0	5.7	0.3835 ug/L	0.3835 ppb	14:48:17
1	Ni 231.604†	74.5	-19.1	-0.4545 ug/L	-0.4545 ppb	14:48:17
1	P 214.914†	220.2	10.5	5.9839 ug/L	5.9839 ppb	14:48:17
1	Pb 220.353†	-58.1	8.7	1.0166 ug/L	1.0166 ppb	14:48:17
1	S 181.975 Axial†	44.9	0.8	1.0507 ug/L	1.0507 ppb	14:48:17
1	Sb 206.836†	43.4	14.5	4.8304 ug/L	4.8304 ppb	14:48:17
1	Se 196.026†	-33.8	-10.0	-6.0517 ug/L	-6.0517 ppb	14:48:17
1	Si 251.611†	433.4	-6.5	-0.2024 ug/L	-0.2024 ppb	14:48:17
1	Sn 189.927†	10.7	10.0	1.6737 ug/L	1.6737 ppb	14:48:17
1	Ti 334.940†	-1300.3	39.2	0.0657 ug/L	0.0657 ppb	14:47:57
1	Tl 190.801†	-39.2	-0.0	-0.0145 ug/L	-0.0145 ppb	14:48:17
1	U 409.014†	-2012.2	48.5	1.3778 ug/L	1.3778 ppb	14:47:57
1	V 292.402†	-1309.4	70.6	0.4676 ug/L	0.4676 ppb	14:47:57
1	Zn 213.857†	686.5	-304.5	-2.7508 ug/L	-2.7508 ppb	14:48:17
1	SiO2†	413.6	-41.9	-2.7525 ug/L	-2.7525 ppb	14:49:13
2	Sc Radial	5214.6	5214.6	98.2 %		14:47:06
2	Y RADIAL	5565.0	5565.0	98.11 %		14:47:06
2	Al 396.153Radial†	-19.0	-2.6	-1.9194 ug/L	-1.9194 ppb	14:47:06
2	Ca 317.933Radial†	17.1	-4.1	-6.3033 ug/L	-6.3033 ppb	14:47:26
2	Fe 238.204 Radial†	8.5	-1.5	-12.149 ug/L	-12.149 ppb	14:47:26
2	K 766.490 Radial†	2721.0	122.3	22.139 ug/L	22.139 ppb	14:47:06
2	Mg 279.077 IEC†	0.9	-2.3	-72.919 ug/L	-72.919 ppb	14:47:26
2	Na 589.592 Radial†	-1416.5	174.5	50.841 ug/L	50.841 ppb	14:47:06
2	Sr 421.552†	31.7	16.5	0.1045 ug/L	0.1045 ppb	14:47:06
2	Sc 361.383	861669.9	861669.9	98.784 %		14:48:23
2	Y 371.029	722870.8	722870.8	98.552 %		14:48:23
2	Ag 328.068†	272.9	-103.0	-0.4653 ug/L	-0.4653 ppb	14:48:23
2	As 188.979†	-20.3	2.9	1.1600 ug/L	1.1600 ppb	14:48:43
2	B 249.677†	-365.6	266.6	5.8154 ug/L	5.8154 ppb	14:48:43
2	Ba 233.527†	-9.6	-0.9	-0.0075 ug/L	-0.0075 ppb	14:48:43
2	Be 313.107†	-4361.7	-90.9	-0.0322 ug/L	-0.0322 ppb	14:48:23
2	Cd 226.502†	-188.0	12.3	0.1325 ug/L	0.1325 ppb	14:48:43
2	Co 228.616†	-80.5	-3.1	-0.0596 ug/L	-0.0596 ppb	14:48:43
2	Cr 267.716†	92.2	20.1	0.2133 ug/L	0.2133 ppb	14:48:43
2	Cu 324.752†	6596.6	131.8	0.3798 ug/L	0.3798 ppb	14:48:23
2	Mn 257.610†	422.4	-52.8	-0.0541 ug/L	-0.0541 ppb	14:48:43
2	Mo 202.031†	23.8	3.5	0.2384 ug/L	0.2384 ppb	14:48:43
2	Ni 231.604†	94.6	1.5	0.0362 ug/L	0.0362 ppb	14:48:43

2	P 214.914†	223.2	14.5	8.2774 ug/L	8.2774 ppb	14:48:43
2	Pb 220.353†	-62.9	3.7	0.4303 ug/L	0.4303 ppb	14:48:43
2	S 181.975 Axial†	45.8	1.8	2.4439 ug/L	2.4439 ppb	14:48:43
2	Sb 206.836†	36.3	7.6	2.5153 ug/L	2.5153 ppb	14:48:43
2	Se 196.026†	-32.1	-8.4	-5.1436 ug/L	-5.1436 ppb	14:48:43
2	Si 251.611†	427.1	-11.0	-0.3412 ug/L	-0.3412 ppb	14:48:43
2	Sn 189.927†	6.3	5.6	0.9460 ug/L	0.9460 ppb	14:48:43
2	Ti 334.940†	-1302.3	32.1	0.0534 ug/L	0.0534 ppb	14:48:23
2	Tl 190.801†	-34.6	4.4	1.2914 ug/L	1.2914 ppb	14:48:43
2	U 409.014†	-1940.1	113.4	3.2232 ug/L	3.2232 ppb	14:48:23
2	V 292.402†	-1389.7	-15.9	-0.0943 ug/L	-0.0943 ppb	14:48:23
2	Zn 213.857†	654.3	-334.4	-3.0229 ug/L	-3.0229 ppb	14:48:43
2	SiO2†	445.0	-8.4	-0.5561 ug/L	-0.5561 ppb	14:49:18
3	Sc Radial	5250.4	5250.4	98.9 %		14:47:31
3	Y RADIAL	5597.4	5597.4	98.68 %		14:47:31
3	Al 396.153Radial†	0.1	16.8	12.251 ug/L	12.251 ppb	14:47:31
3	Ca 317.933Radial†	22.4	1.1	1.6053 ug/L	1.6053 ppb	14:47:51
3	Fe 238.204 Radial†	8.5	-1.6	-13.189 ug/L	-13.189 ppb	14:47:51
3	K 766.490 Radial†	2783.2	166.4	30.121 ug/L	30.121 ppb	14:47:31
3	Mg 279.077 IEC†	0.6	-2.6	-81.104 ug/L	-81.104 ppb	14:47:51
3	Na 589.592 Radial†	-1431.3	169.4	49.354 ug/L	49.354 ppb	14:47:31
3	Sr 421.552†	-13.4	-29.2	-0.1847 ug/L	-0.1847 ppb	14:47:31
3	Sc 361.383	860360.7	860360.7	98.634 %		14:48:48
3	Y 371.029	723485.5	723485.5	98.636 %		14:48:48
3	Ag 328.068†	317.2	-57.7	-0.2648 ug/L	-0.2648 ppb	14:48:48
3	As 188.979†	-18.8	4.4	1.7759 ug/L	1.7759 ppb	14:49:08
3	B 249.677†	-374.1	257.5	5.6159 ug/L	5.6159 ppb	14:49:08
3	Ba 233.527†	-3.5	5.3	0.0394 ug/L	0.0394 ppb	14:49:08
3	Be 313.107†	-4436.4	-173.4	-0.0617 ug/L	-0.0617 ppb	14:48:48
3	Cd 226.502†	-196.5	3.4	0.0379 ug/L	0.0379 ppb	14:49:08
3	Co 228.616†	-71.1	6.4	0.1258 ug/L	0.1258 ppb	14:49:08
3	Cr 267.716†	91.6	19.6	0.2075 ug/L	0.2075 ppb	14:49:08
3	Cu 324.752†	6618.9	164.6	0.4737 ug/L	0.4737 ppb	14:48:48
3	Mn 257.610†	416.4	-58.2	-0.0596 ug/L	-0.0596 ppb	14:49:08
3	Mo 202.031†	24.1	3.8	0.2580 ug/L	0.2580 ppb	14:49:08
3	Ni 231.604†	61.4	-32.0	-0.7608 ug/L	-0.7608 ppb	14:49:08
3	P 214.914†	208.6	-0.0	-0.0662 ug/L	-0.0662 ppb	14:49:08
3	Pb 220.353†	-62.7	3.8	0.4421 ug/L	0.4421 ppb	14:49:08
3	S 181.975 Axial†	52.6	8.7	11.662 ug/L	11.662 ppb	14:49:08
3	Sb 206.836†	46.2	17.6	5.8567 ug/L	5.8567 ppb	14:49:08
3	Se 196.026†	-32.4	-8.7	-5.3444 ug/L	-5.3444 ppb	14:49:08
3	Si 251.611†	427.7	-9.8	-0.3034 ug/L	-0.3034 ppb	14:49:08
3	Sn 189.927†	13.0	12.5	2.0915 ug/L	2.0915 ppb	14:49:08
3	Ti 334.940†	-1361.7	-30.1	-0.0424 ug/L	-0.0424 ppb	14:48:48
3	Tl 190.801†	-36.0	3.0	0.8721 ug/L	0.8721 ppb	14:49:08
3	U 409.014†	-1859.0	192.7	5.4765 ug/L	5.4765 ppb	14:48:48
3	V 292.402†	-1354.6	17.5	0.1291 ug/L	0.1291 ppb	14:48:48
3	Zn 213.857†	655.1	-332.5	-3.0010 ug/L	-3.0010 ppb	14:49:08
3	SiO2†	489.4	37.3	2.4339 ug/L	2.4339 ppb	14:49:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862374.1	98.865 %	0.2801			0.28%
Sc Radial	5223.5	98.4 %	0.45			0.45%
Y 371.029	724750.8	98.809 %	0.3737			0.38%
Y RADIAL	5579.5	98.36 %	0.291			0.30%
Ag 328.068†	-60.6	-0.2741 ug/L	0.18669	-0.2741 ppb	0.18669	68.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.3	1.6742 ug/L	9.31494	1.6742 ppb	9.31494	556.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.8	1.5529 ug/L	0.34131	1.5529 ppb	0.34131	21.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	273.2	5.9568 ug/L	0.42944	5.9568 ppb	0.42944	7.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.4	0.0105 ug/L	0.02528	0.0105 ppb	0.02528	239.66%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-107.4	-0.0381 ug/L	0.02126	-0.0381 ppb	0.02126	55.81%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.4	-3.6107 ug/L	4.51794	-3.6107 ppb	4.51794	125.13%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	8.0	0.0855 ug/L	0.04731	0.0855 ppb	0.04731	55.34%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	4.4	0.0862 ug/L	0.13048	0.0862 ppb	0.13048	151.45%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	27.7	0.2952 ug/L	0.14687	0.2952 ppb	0.14687	49.75%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	132.6	0.3823 ug/L	0.09018	0.3823 ppb	0.09018	23.59%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.9	-7.6919 ug/L	8.63581	-7.6919 ppb	8.63581	112.27%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	171.1	30.977 ug/L	9.2946	30.977 ppb	9.2946	30.01%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-2.5	-77.498 ug/L	4.1781	-77.498 ppb	4.1781	5.39%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-62.9	-0.0642 ug/L	0.01307	-0.0642 ppb	0.01307	20.37%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	4.4	0.2933 ug/L	0.07870	0.2933 ppb	0.07870	26.83%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	163.8	47.721 ug/L	4.1815	47.721 ppb	4.1815	8.76%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-16.5	-0.3930 ug/L	0.40202	-0.3930 ppb	0.40202	102.29%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	8.3	4.7317 ug/L	4.31045	4.7317 ppb	4.31045	91.10%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	5.4	0.6297 ug/L	0.33516	0.6297 ppb	0.33516	53.23%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.8	5.0523 ug/L	5.76668	5.0523 ppb	5.76668	114.14%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	13.2	4.4008 ug/L	1.71161	4.4008 ppb	1.71161	38.89%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-9.0	-5.5132 ug/L	0.47701	-5.5132 ppb	0.47701	8.65%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-9.1	-0.2823 ug/L	0.07177	-0.2823 ppb	0.07177	25.42%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	9.4	1.5704 ug/L	0.57969	1.5704 ppb	0.57969	36.91%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-11.1	-0.0698 ug/L	0.15352	-0.0698 ppb	0.15352	219.91%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	13.7	0.0256 ug/L	0.05923	0.0256 ppb	0.05923	231.59%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	2.5	0.7163 ug/L	0.66675	0.7163 ppb	0.66675	93.08%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	118.2	3.3592 ug/L	2.05273	3.3592 ppb	2.05273	61.11%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	24.1	0.1675 ug/L	0.28292	0.1675 ppb	0.28292	168.93%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-323.8	-2.9249 ug/L	0.15120	-2.9249 ppb	0.15120	5.17%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-4.3	-0.2916 ug/L	2.60330	-0.2916 ppb	2.60330	892.83%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

=====

Analysis Begun

Start Time: 1/13/2010 15:05:15

Plasma On Time: 1/11/2010 06:15:31

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\011310.sif

Batch ID:

Results Data Set: 011310

Results Library: C:\pe\Optima3\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/13/2010 15:05:16

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	5260.0	5260.0	99.1 %		15:07:08
1	Y RADIAL	5560.2	5560.2	98.02 %		15:07:08
1	Al 396.153Radial†	6627.4	6707.6	4866.9 ug/L	4866.9 ppb	15:07:08
1	Ca 317.933Radial†	3254.8	3264.4	4961.0 ug/L	4961.0 ppb	15:07:28
1	Fe 238.204 Radial†	610.5	606.2	5012.4 ug/L	5012.4 ppb	15:07:28
1	K 766.490 Radial†	29918.7	27556.6	4985.4 ug/L	4985.4 ppb	15:07:08
1	Mg 279.077 IEC†	164.2	162.5	5080.2 ug/L	5080.2 ppb	15:07:28
1	Na 589.592 Radial†	31644.4	33564.4	9781.4 ug/L	9781.4 ppb	15:07:08
1	Sr 421.552†	77488.5	78214.9	494.06 ug/L	494.06 ppb	15:07:08
1	Sc 361.383	877936.7	877936.7	100.65 %		15:08:26
1	Y 371.029	724712.5	724712.5	98.803 %		15:08:26
1	Ag 328.068†	110889.0	109794.8	491.59 ug/L	491.59 ppb	15:08:31
1	As 188.979†	1170.0	1185.9	485.83 ug/L	485.83 ppb	15:08:51
1	B 249.677†	21634.1	22131.4	480.29 ug/L	480.29 ppb	15:08:31
1	Ba 233.527†	65111.2	64700.2	487.79 ug/L	487.79 ppb	15:08:31
1	Be 313.107†	1377171.1	1372616.3	488.59 ug/L	488.59 ppb	15:08:26
1	Cd 226.502†	45973.6	45879.8	485.75 ug/L	485.75 ppb	15:08:31
1	Co 228.616†	24940.1	24857.7	487.73 ug/L	487.73 ppb	15:08:31
1	Cr 267.716†	45594.0	45226.8	483.88 ug/L	483.88 ppb	15:08:31
1	Cu 324.752†	174110.6	166442.0	482.76 ug/L	482.76 ppb	15:08:31
1	Mn 257.610†	467318.7	463825.3	491.06 ug/L	491.06 ppb	15:08:26
1	Mo 202.031†	7285.9	7218.3	487.80 ug/L	487.80 ppb	15:08:51
1	Ni 231.604†	20606.6	20379.5	484.82 ug/L	484.82 ppb	15:08:31
1	P 214.914†	4434.5	4194.4	2320.3 ug/L	2320.3 ppb	15:08:51
1	Pb 220.353†	4132.0	4172.7	488.31 ug/L	488.31 ppb	15:08:51
1	S 181.975 Axial†	777.4	727.8	969.43 ug/L	969.43 ppb	15:08:51
1	Sb 206.836†	1518.5	1479.5	506.71 ug/L	506.71 ppb	15:08:51
1	Se 196.026†	771.4	790.5	499.13 ug/L	499.13 ppb	15:08:51
1	Si 251.611†	80590.3	79627.2	2431.9 ug/L	2431.9 ppb	15:08:31
1	Sn 189.927†	2922.8	2903.2	487.77 ug/L	487.77 ppb	15:08:51
1	Ti 334.940†	319722.6	319011.5	495.13 ug/L	495.13 ppb	15:08:26
1	Tl 190.801†	1641.7	1670.6	489.99 ug/L	489.99 ppb	15:08:51
1	U 409.014†	15335.9	17314.5	490.36 ug/L	490.36 ppb	15:08:31
1	V 292.402†	73054.5	73974.4	489.95 ug/L	489.95 ppb	15:08:31
1	Zn 213.857†	55202.7	53850.0	482.62 ug/L	482.62 ppb	15:08:31
1	SiO2†	81820.1	80833.6	5278.7 ug/L	5278.7 ppb	15:09:59
2	Sc Radial	5175.3	5175.3	97.5 %		15:07:33
2	Y RADIAL	5483.5	5483.5	96.67 %		15:07:33
2	Al 396.153Radial†	6596.1	6785.0	4923.1 ug/L	4923.1 ppb	15:07:33
2	Ca 317.933Radial†	3247.9	3311.1	5032.0 ug/L	5032.0 ppb	15:07:53
2	Fe 238.204 Radial†	606.5	612.2	5061.6 ug/L	5061.6 ppb	15:07:53
2	K 766.490 Radial†	29980.0	28114.0	5086.3 ug/L	5086.3 ppb	15:07:33
2	Mg 279.077 IEC†	163.8	164.8	5152.5 ug/L	5152.5 ppb	15:07:53
2	Na 589.592 Radial†	31360.2	33795.8	9848.8 ug/L	9848.8 ppb	15:07:33
2	Sr 421.552†	76816.8	78806.2	497.79 ug/L	497.79 ppb	15:07:33
2	Sc 361.383	867993.0	867993.0	99.509 %		15:08:57
2	Y 371.029	716842.9	716842.9	97.731 %		15:08:57

2	Ag 328.068†	111127.7	111296.8	498.30 ug/L	498.30 ppb	15:09:02
2	As 188.979†	1181.1	1210.3	495.74 ug/L	495.74 ppb	15:09:22
2	B 249.677†	21715.2	22459.2	487.41 ug/L	487.41 ppb	15:09:02
2	Ba 233.527†	65194.5	65525.0	494.00 ug/L	494.00 ppb	15:09:02
2	Be 313.107†	1365281.1	1376342.8	489.92 ug/L	489.92 ppb	15:08:57
2	Cd 226.502†	46056.5	46486.4	492.18 ug/L	492.18 ppb	15:09:02
2	Co 228.616†	25017.8	25219.7	494.84 ug/L	494.84 ppb	15:09:02
2	Cr 267.716†	45719.9	45872.3	490.78 ug/L	490.78 ppb	15:09:02
2	Cu 324.752†	174280.2	168594.2	489.00 ug/L	489.00 ppb	15:09:02
2	Mn 257.610†	464088.1	465897.8	493.26 ug/L	493.26 ppb	15:08:57
2	Mo 202.031†	7292.1	7307.6	493.83 ug/L	493.83 ppb	15:09:22
2	Ni 231.604†	20699.9	20707.8	492.63 ug/L	492.63 ppb	15:09:02
2	P 214.914†	4442.7	4253.2	2353.0 ug/L	2353.0 ppb	15:09:22
2	Pb 220.353†	4132.6	4220.3	493.89 ug/L	493.89 ppb	15:09:22
2	S 181.975 Axial†	784.6	743.9	990.86 ug/L	990.86 ppb	15:09:22
2	Sb 206.836†	1515.5	1493.7	511.69 ug/L	511.69 ppb	15:09:22
2	Se 196.026†	787.0	815.0	514.19 ug/L	514.19 ppb	15:09:22
2	Si 251.611†	80684.8	80639.5	2462.8 ug/L	2462.8 ppb	15:09:02
2	Sn 189.927†	2933.1	2946.8	495.09 ug/L	495.09 ppb	15:09:22
2	Ti 334.940†	316905.9	319820.1	496.39 ug/L	496.39 ppb	15:08:57
2	Tl 190.801†	1661.9	1709.6	501.32 ug/L	501.32 ppb	15:09:22
2	U 409.014†	15253.3	17406.0	492.93 ug/L	492.93 ppb	15:09:02
2	V 292.402†	72995.2	74746.3	495.08 ug/L	495.08 ppb	15:09:02
2	Zn 213.857†	55222.9	54498.7	488.42 ug/L	488.42 ppb	15:09:02
2	SiO2†	80101.6	80038.0	5226.5 ug/L	5226.5 ppb	15:10:04
3	Sc Radial	5267.4	5267.4	99.2 %		15:07:58
3	Y RADIAL	5580.3	5580.3	98.38 %		15:07:58
3	Al 396.153Radial†	6732.6	6804.3	4937.1 ug/L	4937.1 ppb	15:07:58
3	Ca 317.933Radial†	3253.5	3258.5	4952.1 ug/L	4952.1 ppb	15:08:18
3	Fe 238.204 Radial†	611.7	606.5	5015.2 ug/L	5015.2 ppb	15:08:18
3	K 766.490 Radial†	30263.7	27862.0	5040.7 ug/L	5040.7 ppb	15:07:58
3	Mg 279.077 IEC†	165.0	163.2	5100.4 ug/L	5100.4 ppb	15:08:18
3	Na 589.592 Radial†	31751.8	33627.9	9799.9 ug/L	9799.9 ppb	15:07:58
3	Sr 421.552†	78374.8	78998.8	499.01 ug/L	499.01 ppb	15:07:58
3	Sc 361.383	864733.0	864733.0	99.135 %		15:09:28
3	Y 371.029	714085.1	714085.1	97.355 %		15:09:28
3	Ag 328.068†	112770.6	113375.1	507.57 ug/L	507.57 ppb	15:09:33
3	As 188.979†	1172.5	1206.1	494.06 ug/L	494.06 ppb	15:09:53
3	B 249.677†	22079.0	22908.3	497.18 ug/L	497.18 ppb	15:09:33
3	Ba 233.527†	66171.6	66757.6	503.29 ug/L	503.29 ppb	15:09:33
3	Be 313.107†	1367733.7	1383989.3	492.64 ug/L	492.64 ppb	15:09:28
3	Cd 226.502†	46530.2	47138.8	499.10 ug/L	499.10 ppb	15:09:33
3	Co 228.616†	25370.5	25670.2	503.68 ug/L	503.68 ppb	15:09:33
3	Cr 267.716†	46236.6	46566.7	498.21 ug/L	498.21 ppb	15:09:33
3	Cu 324.752†	177755.4	172760.0	501.08 ug/L	501.08 ppb	15:09:33
3	Mn 257.610†	465048.1	468624.4	496.14 ug/L	496.14 ppb	15:09:28
3	Mo 202.031†	7275.1	7318.0	494.53 ug/L	494.53 ppb	15:09:53
3	Ni 231.604†	20947.1	21035.6	500.43 ug/L	500.43 ppb	15:09:33
3	P 214.914†	4440.2	4267.4	2358.8 ug/L	2358.8 ppb	15:09:53
3	Pb 220.353†	4138.3	4241.7	496.38 ug/L	496.38 ppb	15:09:53
3	S 181.975 Axial†	787.8	750.1	999.10 ug/L	999.10 ppb	15:09:53
3	Sb 206.836†	1512.9	1496.9	512.75 ug/L	512.75 ppb	15:09:53
3	Se 196.026†	792.5	823.5	519.23 ug/L	519.23 ppb	15:09:53
3	Si 251.611†	82025.5	82297.6	2513.6 ug/L	2513.6 ppb	15:09:33
3	Sn 189.927†	2917.9	2942.6	494.38 ug/L	494.38 ppb	15:09:53
3	Ti 334.940†	318329.8	322457.0	500.47 ug/L	500.47 ppb	15:09:28
3	Tl 190.801†	1648.2	1702.0	499.10 ug/L	499.10 ppb	15:09:53
3	U 409.014†	15558.6	17771.7	503.32 ug/L	503.32 ppb	15:09:33
3	V 292.402†	74207.1	76245.3	504.90 ug/L	504.90 ppb	15:09:33
3	Zn 213.857†	55998.5	55490.2	497.32 ug/L	497.32 ppb	15:09:33
3	SiO2†	80515.1	80758.6	5273.6 ug/L	5273.6 ppb	15:10:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870220.9	99.764 %	0.7885			0.79%
Sc Radial	5234.2	98.6 %	0.96			0.98%
Y 371.029	718546.8	97.963 %	0.7519			0.77%
Y RADIAL	5541.3	97.69 %	0.900			0.92%
Ag 328.068†	111488.9	499.15 ug/L	8.023	499.15 ppb	8.023	1.61%

QC value within limits for Ag 328.068 Recovery = 99.83%							
Al 396.153Radial†	6765.6	4909.0 ug/L	37.14	4909.0 ppb	37.14	0.76%	
QC value within limits for Al 396.153Radial Recovery = 98.18%							
As 188.979†	1200.8	491.88 ug/L	5.305	491.88 ppb	5.305	1.08%	
QC value within limits for As 188.979 Recovery = 98.38%							
B 249.677†	22499.6	488.30 ug/L	8.481	488.30 ppb	8.481	1.74%	
QC value within limits for B 249.677 Recovery = 97.66%							
Ba 233.527†	65660.9	495.03 ug/L	7.803	495.03 ppb	7.803	1.58%	
QC value within limits for Ba 233.527 Recovery = 99.01%							
Be 313.107†	1377649.5	490.38 ug/L	2.065	490.38 ppb	2.065	0.42%	
QC value within limits for Be 313.107 Recovery = 98.08%							
Ca 317.933Radial†	3278.0	4981.7 ug/L	43.81	4981.7 ppb	43.81	0.88%	
QC value within limits for Ca 317.933Radial Recovery = 99.63%							
Cd 226.502†	46501.6	492.34 ug/L	6.674	492.34 ppb	6.674	1.36%	
QC value within limits for Cd 226.502 Recovery = 98.47%							
Co 228.616†	25249.2	495.42 ug/L	7.988	495.42 ppb	7.988	1.61%	
QC value within limits for Co 228.616 Recovery = 99.08%							
Cr 267.716†	45888.6	490.96 ug/L	7.168	490.96 ppb	7.168	1.46%	
QC value within limits for Cr 267.716 Recovery = 98.19%							
Cu 324.752†	169265.4	490.94 ug/L	9.313	490.94 ppb	9.313	1.90%	
QC value within limits for Cu 324.752 Recovery = 98.19%							
Fe 238.204 Radial†	608.3	5029.7 ug/L	27.64	5029.7 ppb	27.64	0.55%	
QC value within limits for Fe 238.204 Radial Recovery = 100.59%							
K 766.490 Radial†	27844.2	5037.5 ug/L	50.53	5037.5 ppb	50.53	1.00%	
QC value within limits for K 766.490 Radial Recovery = 100.75%							
Mg 279.077 IEC†	163.5	5111.1 ug/L	37.31	5111.1 ppb	37.31	0.73%	
QC value within limits for Mg 279.077 IEC Recovery = 102.22%							
Mn 257.610†	466115.9	493.49 ug/L	2.546	493.49 ppb	2.546	0.52%	
QC value within limits for Mn 257.610 Recovery = 98.70%							
Mo 202.031†	7281.3	492.05 ug/L	3.699	492.05 ppb	3.699	0.75%	
QC value within limits for Mo 202.031 Recovery = 98.41%							
Na 589.592 Radial†	33662.7	9810.0 ug/L	34.84	9810.0 ppb	34.84	0.36%	
QC value within limits for Na 589.592 Radial Recovery = 98.10%							
Ni 231.604†	20707.6	492.62 ug/L	7.804	492.62 ppb	7.804	1.58%	
QC value within limits for Ni 231.604 Recovery = 98.52%							
P 214.914†	4238.3	2344.1 ug/L	20.74	2344.1 ppb	20.74	0.88%	
QC value within limits for P 214.914 Recovery = 93.76%							
Pb 220.353†	4211.6	492.86 ug/L	4.135	492.86 ppb	4.135	0.84%	
QC value within limits for Pb 220.353 Recovery = 98.57%							
S 181.975 Axial†	740.6	986.46 ug/L	15.315	986.46 ppb	15.315	1.55%	
QC value within limits for S 181.975 Axial Recovery = 98.65%							
Sb 206.836†	1490.0	510.38 ug/L	3.221	510.38 ppb	3.221	0.63%	
QC value within limits for Sb 206.836 Recovery = 102.08%							
Se 196.026†	809.7	510.85 ug/L	10.457	510.85 ppb	10.457	2.05%	
QC value within limits for Se 196.026 Recovery = 102.17%							
Si 251.611†	80854.8	2469.4 ug/L	41.24	2469.4 ppb	41.24	1.67%	
QC value within limits for Si 251.611 Recovery = 98.78%							
Sn 189.927†	2930.9	492.42 ug/L	4.036	492.42 ppb	4.036	0.82%	
QC value within limits for Sn 189.927 Recovery = 98.48%							
Sr 421.552†	78673.3	496.96 ug/L	2.580	496.96 ppb	2.580	0.52%	
QC value within limits for Sr 421.552 Recovery = 99.39%							
Ti 334.940†	320429.6	497.33 ug/L	2.790	497.33 ppb	2.790	0.56%	
QC value within limits for Ti 334.940 Recovery = 99.47%							
Tl 190.801†	1694.1	496.80 ug/L	6.003	496.80 ppb	6.003	1.21%	
QC value within limits for Tl 190.801 Recovery = 99.36%							
U 409.014†	17497.4	495.54 ug/L	6.860	495.54 ppb	6.860	1.38%	
QC value within limits for U 409.014 Recovery = 99.11%							
V 292.402†	74988.7	496.64 ug/L	7.598	496.64 ppb	7.598	1.53%	
QC value within limits for V 292.402 Recovery = 99.33%							
Zn 213.857†	54613.0	489.45 ug/L	7.406	489.45 ppb	7.406	1.51%	
QC value within limits for Zn 213.857 Recovery = 97.89%							
SiO2†	80543.4	5259.6 ug/L	28.81	5259.6 ppb	28.81	0.55%	
QC value within limits for SiO2 Recovery = 98.36%							
All analyte(s) passed QC.							

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/13/2010 15:12:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5369.5	5369.5	101 %		15:14:11
1	Y RADIAL	5699.9	5699.9	100.5 %		15:14:11
1	Al 396.153Radial†	-29.9	-12.8	-9.3818 ug/L	-9.3818 ppb	15:14:11
1	Ca 317.933Radial†	16.3	-5.5	-8.3293 ug/L	-8.3293 ppb	15:14:31
1	Fe 238.204 Radial†	11.3	1.0	8.5998 ug/L	8.5998 ppb	15:14:31
1	K 766.490 Radial†	2715.5	37.0	6.6707 ug/L	6.6707 ppb	15:14:11
1	Mg 279.077 IEC†	0.9	-2.3	-72.057 ug/L	-72.057 ppb	15:14:31
1	Na 589.592 Radial†	-1381.5	250.7	73.045 ug/L	73.045 ppb	15:14:11
1	Sr 421.552†	8.2	-7.6	-0.0481 ug/L	-0.0481 ppb	15:14:11
1	Sc 361.383	886851.6	886851.6	101.67 %		15:15:28
1	Y 371.029	744547.3	744547.3	101.51 %		15:15:28
1	Ag 328.068†	346.9	-38.1	-0.1691 ug/L	-0.1691 ppb	15:15:33
1	As 188.979†	-12.1	11.5	4.6779 ug/L	4.6779 ppb	15:15:53
1	B 249.677†	-372.9	270.0	5.8845 ug/L	5.8845 ppb	15:15:53
1	Ba 233.527†	-18.6	-9.5	-0.0703 ug/L	-0.0703 ppb	15:15:53
1	Be 313.107†	-4399.8	-3.0	-0.0010 ug/L	-0.0010 ppb	15:15:33
1	Cd 226.502†	-181.8	23.8	0.2517 ug/L	0.2517 ppb	15:15:53
1	Co 228.616†	-70.8	8.8	0.1732 ug/L	0.1732 ppb	15:15:53
1	Cr 267.716†	98.2	23.4	0.2489 ug/L	0.2489 ppb	15:15:53
1	Cu 324.752†	6599.4	-55.0	-0.1620 ug/L	-0.1620 ppb	15:15:33
1	Mn 257.610†	416.2	-71.1	-0.0714 ug/L	-0.0714 ppb	15:15:53
1	Mo 202.031†	26.4	5.4	0.3625 ug/L	0.3625 ppb	15:15:53
1	Ni 231.604†	66.4	-28.9	-0.6891 ug/L	-0.6891 ppb	15:15:53
1	P 214.914†	217.6	2.5	1.4912 ug/L	1.4912 ppb	15:15:53
1	Pb 220.353†	-68.9	-0.5	-0.0547 ug/L	-0.0547 ppb	15:15:53
1	S 181.975 Axial†	45.3	0.1	0.0800 ug/L	0.0800 ppb	15:15:53
1	Sb 206.836†	46.2	16.2	5.3938 ug/L	5.3938 ppb	15:15:53
1	Se 196.026†	-29.2	-4.6	-2.7444 ug/L	-2.7444 ppb	15:15:53
1	Si 251.611†	429.2	-21.3	-0.6571 ug/L	-0.6571 ppb	15:15:53
1	Sn 189.927†	9.1	8.2	1.3738 ug/L	1.3738 ppb	15:15:53
1	Ti 334.940†	-1346.3	26.2	0.0431 ug/L	0.0431 ppb	15:15:33
1	Tl 190.801†	-34.2	5.8	1.6989 ug/L	1.6989 ppb	15:15:53
1	U 409.014†	-1930.8	178.4	5.0670 ug/L	5.0670 ppb	15:15:28
1	V 292.402†	-1351.6	61.5	0.4140 ug/L	0.4140 ppb	15:15:33
1	Zn 213.857†	652.5	-355.0	-3.2054 ug/L	-3.2054 ppb	15:15:53
1	SiO2†	464.2	-2.4	-0.1654 ug/L	-0.1654 ppb	15:16:59
2	Sc Radial	5352.1	5352.1	101 %		15:14:36
2	Y RADIAL	5706.4	5706.4	100.6 %		15:14:36
2	Al 396.153Radial†	-6.4	10.4	7.5460 ug/L	7.5460 ppb	15:14:36
2	Ca 317.933Radial†	17.9	-3.8	-5.7940 ug/L	-5.7940 ppb	15:14:56
2	Fe 238.204 Radial†	9.9	-0.3	-2.7821 ug/L	-2.7821 ppb	15:14:56
2	K 766.490 Radial†	2704.0	34.3	6.1894 ug/L	6.1894 ppb	15:14:36
2	Mg 279.077 IEC†	4.3	1.0	32.760 ug/L	32.760 ppb	15:14:56
2	Na 589.592 Radial†	-1432.0	196.2	57.172 ug/L	57.172 ppb	15:14:36
2	Sr 421.552†	-2.9	-18.6	-0.1172 ug/L	-0.1172 ppb	15:14:36
2	Sc 361.383	882381.0	882381.0	101.16 %		15:15:58
2	Y 371.029	740525.6	740525.6	100.96 %		15:15:58
2	Ag 328.068†	410.9	27.0	0.1203 ug/L	0.1203 ppb	15:16:03
2	As 188.979†	-21.9	1.8	0.7179 ug/L	0.7179 ppb	15:16:24
2	B 249.677†	-392.1	249.2	5.4339 ug/L	5.4339 ppb	15:16:24
2	Ba 233.527†	-8.8	0.2	0.0026 ug/L	0.0026 ppb	15:16:24
2	Be 313.107†	-4375.0	-0.4	0.0000 ug/L	0.0000 ppb	15:16:03
2	Cd 226.502†	-182.2	22.5	0.2388 ug/L	0.2388 ppb	15:16:24
2	Co 228.616†	-94.1	-14.6	-0.2862 ug/L	-0.2862 ppb	15:16:24
2	Cr 267.716†	80.6	6.5	0.0693 ug/L	0.0693 ppb	15:16:24
2	Cu 324.752†	6544.0	-77.0	-0.2246 ug/L	-0.2246 ppb	15:16:03
2	Mn 257.610†	443.0	-42.5	-0.0466 ug/L	-0.0466 ppb	15:16:24
2	Mo 202.031†	24.0	3.1	0.2122 ug/L	0.2122 ppb	15:16:24
2	Ni 231.604†	88.6	-6.6	-0.1577 ug/L	-0.1577 ppb	15:16:24

2	P 214.914†	216.2	2.2	1.3249 ug/L	1.3249 ppb	15:16:24
2	Pb 220.353†	-60.9	7.1	0.8359 ug/L	0.8359 ppb	15:16:24
2	S 181.975 Axial†	48.7	3.6	4.8013 ug/L	4.8013 ppb	15:16:24
2	Sb 206.836†	27.8	-1.8	-0.5666 ug/L	-0.5666 ppb	15:16:24
2	Se 196.026†	-22.1	2.3	1.4084 ug/L	1.4084 ppb	15:16:24
2	Si 251.611†	422.3	-26.0	-0.7975 ug/L	-0.7975 ppb	15:16:24
2	Sn 189.927†	4.1	3.3	0.5547 ug/L	0.5547 ppb	15:16:24
2	Ti 334.940†	-1326.8	38.8	0.0558 ug/L	0.0558 ppb	15:16:03
2	Tl 190.801†	-30.4	9.4	2.7454 ug/L	2.7454 ppb	15:16:24
2	U 409.014†	-2025.4	75.2	2.1381 ug/L	2.1381 ppb	15:15:58
2	V 292.402†	-1300.8	105.1	0.6946 ug/L	0.6946 ppb	15:16:03
2	Zn 213.857†	659.9	-344.4	-3.1121 ug/L	-3.1121 ppb	15:16:24
2	SiO2†	432.9	-30.9	-2.0300 ug/L	-2.0300 ppb	15:17:04
3	Sc Radial	5296.9	5296.9	99.7 %		15:15:02
3	Y RADIAL	5658.9	5658.9	99.76 %		15:15:02
3	Al 396.153Radial†	-19.2	-2.5	-1.8458 ug/L	-1.8458 ppb	15:15:02
3	Ca 317.933Radial†	15.6	-5.9	-9.0046 ug/L	-9.0046 ppb	15:15:22
3	Fe 238.204 Radial†	9.2	-0.9	-7.6656 ug/L	-7.6656 ppb	15:15:22
3	K 766.490 Radial†	2737.1	95.4	17.262 ug/L	17.262 ppb	15:15:02
3	Mg 279.077 IEC†	3.3	0.0	1.3193 ug/L	1.3193 ppb	15:15:22
3	Na 589.592 Radial†	-1467.8	145.4	42.382 ug/L	42.382 ppb	15:15:02
3	Sr 421.552†	25.8	10.1	0.0641 ug/L	0.0641 ppb	15:15:02
3	Sc 361.383	881513.7	881513.7	101.06 %		15:16:29
3	Y 371.029	740233.4	740233.4	100.92 %		15:16:29
3	Ag 328.068†	392.4	9.0	0.0331 ug/L	0.0331 ppb	15:16:34
3	As 188.979†	-26.6	-2.9	-1.1676 ug/L	-1.1676 ppb	15:16:54
3	B 249.677†	-353.1	287.4	6.2665 ug/L	6.2665 ppb	15:16:54
3	Ba 233.527†	-4.1	4.8	0.0366 ug/L	0.0366 ppb	15:16:54
3	Be 313.107†	-4371.2	-0.9	-0.0004 ug/L	-0.0004 ppb	15:16:34
3	Cd 226.502†	-178.9	25.6	0.2735 ug/L	0.2735 ppb	15:16:54
3	Co 228.616†	-77.3	1.9	0.0371 ug/L	0.0371 ppb	15:16:54
3	Cr 267.716†	100.8	26.5	0.2810 ug/L	0.2810 ppb	15:16:54
3	Cu 324.752†	6699.5	83.2	0.2372 ug/L	0.2372 ppb	15:16:34
3	Mn 257.610†	419.8	-65.0	-0.0696 ug/L	-0.0696 ppb	15:16:54
3	Mo 202.031†	19.8	-1.0	-0.0679 ug/L	-0.0679 ppb	15:16:54
3	Ni 231.604†	84.5	-10.6	-0.2514 ug/L	-0.2514 ppb	15:16:54
3	P 214.914†	221.1	7.3	4.1759 ug/L	4.1759 ppb	15:16:54
3	Pb 220.353†	-67.0	1.0	0.1178 ug/L	0.1178 ppb	15:16:54
3	S 181.975 Axial†	45.7	0.7	0.9235 ug/L	0.9235 ppb	15:16:54
3	Sb 206.836†	37.1	7.5	2.4960 ug/L	2.4960 ppb	15:16:54
3	Se 196.026†	-29.1	-4.7	-2.8554 ug/L	-2.8554 ppb	15:16:54
3	Si 251.611†	451.2	3.1	0.0945 ug/L	0.0945 ppb	15:16:54
3	Sn 189.927†	6.5	5.6	0.9423 ug/L	0.9423 ppb	15:16:54
3	Ti 334.940†	-1390.4	-25.4	-0.0440 ug/L	-0.0440 ppb	15:16:34
3	Tl 190.801†	-35.1	4.8	1.3902 ug/L	1.3902 ppb	15:16:54
3	U 409.014†	-1850.5	246.3	7.0003 ug/L	7.0003 ppb	15:16:29
3	V 292.402†	-1368.1	37.2	0.2566 ug/L	0.2566 ppb	15:16:34
3	Zn 213.857†	664.0	-339.7	-3.0693 ug/L	-3.0693 ppb	15:16:54
3	SiO2†	463.8	-0.0	0.0018 ug/L	0.0018 ppb	15:17:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	883582.1	101.30 %		0.328			0.32%
Sc Radial	5339.5	101 %		0.7			0.71%
Y 371.029	741768.8	101.13 %		0.329			0.32%
Y RADIAL	5688.4	100.3 %		0.45			0.45%
Ag 328.068†	-0.7	-0.0052 ug/L		0.14842	-0.0052 ppb	0.14842	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-1.7	-1.2272 ug/L		8.48085	-1.2272 ppb	8.48085	691.08%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.5	1.4094 ug/L		2.98345	1.4094 ppb	2.98345	211.68%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	268.9	5.8617 ug/L		0.41677	5.8617 ppb	0.41677	7.11%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-1.5	-0.0104 ug/L		0.05461	-0.0104 ppb	0.05461	525.16%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-1.5	-0.0005 ug/L		0.00049	-0.0005 ppb	0.00049	102.38%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-5.1	-7.7093 ug/L		1.69275	-7.7093 ppb	1.69275	21.96%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	24.0	0.2547 ug/L	0.01751	0.2547 ppb	0.01751	6.87%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-1.3	-0.0253 ug/L	0.23595	-0.0253 ppb	0.23595	932.99%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	18.8	0.1998 ug/L	0.11408	0.1998 ppb	0.11408	57.11%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-16.3	-0.0498 ug/L	0.25050	-0.0498 ppb	0.25050	502.82%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.1	-0.6160 ug/L	8.34623	-0.6160 ppb	8.34623	>999.9%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	55.5	10.041 ug/L	6.2586	10.041 ppb	6.2586	62.33%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.4	-12.659 ug/L	53.7887	-12.659 ppb	53.7887	424.89%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-59.5	-0.0625 ug/L	0.01383	-0.0625 ppb	0.01383	22.12%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	2.5	0.1690 ug/L	0.21843	0.1690 ppb	0.21843	129.28%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	197.4	57.533 ug/L	15.3345	57.533 ppb	15.3345	26.65%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-15.4	-0.3661 ug/L	0.28365	-0.3661 ppb	0.28365	77.49%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	4.0	2.3307 ug/L	1.60018	2.3307 ppb	1.60018	68.66%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	2.6	0.2997 ug/L	0.47237	0.2997 ppb	0.47237	157.63%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	1.5	1.9350 ug/L	2.51791	1.9350 ppb	2.51791	130.13%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	7.3	2.4411 ug/L	2.98059	2.4411 ppb	2.98059	122.10%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-2.3	-1.3971 ug/L	2.43030	-1.3971 ppb	2.43030	173.95%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-14.7	-0.4534 ug/L	0.47960	-0.4534 ppb	0.47960	105.79%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	5.7	0.9570 ug/L	0.40979	0.9570 ppb	0.40979	42.82%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-5.4	-0.0338 ug/L	0.09149	-0.0338 ppb	0.09149	270.97%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	13.2	0.0183 ug/L	0.05430	0.0183 ppb	0.05430	296.74%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	6.7	1.9448 ug/L	0.71033	1.9448 ppb	0.71033	36.52%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	166.7	4.7351 ug/L	2.44802	4.7351 ppb	2.44802	51.70%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	67.9	0.4551 ug/L	0.22188	0.4551 ppb	0.22188	48.76%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-346.4	-3.1289 ug/L	0.06957	-3.1289 ppb	0.06957	2.22%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-11.1	-0.7312 ug/L	1.12791	-0.7312 ppb	1.12791	154.25%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 16:00:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5218.9	5218.9	98.3 %		16:02:09
1	Y RADIAL	5528.1	5528.1	97.46 %		16:02:09
1	Al 396.153Radial†	6777.7	6913.2	5016.7 ug/L	5016.7 ppb	16:02:09
1	Ca 317.933Radial†	3308.1	3344.5	5082.8 ug/L	5082.8 ppb	16:02:29
1	Fe 238.204 Radial†	618.8	619.5	5121.8 ug/L	5121.8 ppb	16:02:29
1	K 766.490 Radial†	30199.5	28079.8	5080.1 ug/L	5080.1 ppb	16:02:09
1	Mg 279.077 IEC†	166.7	166.4	5201.5 ug/L	5201.5 ppb	16:02:29
1	Na 589.592 Radial†	31612.0	33782.6	9845.0 ug/L	9845.0 ppb	16:02:09
1	Sr 421.552†	77786.9	79133.6	499.86 ug/L	499.86 ppb	16:02:09
1	Sc 361.383	886406.8	886406.8	101.62 %		16:03:26
1	Y 371.029	732210.4	732210.4	99.826 %		16:03:26
1	Ag 328.068†	114602.0	112395.9	503.22 ug/L	503.22 ppb	16:03:31
1	As 188.979†	1206.1	1210.3	495.66 ug/L	495.66 ppb	16:03:51
1	B 249.677†	22502.1	22780.2	494.39 ug/L	494.39 ppb	16:03:31
1	Ba 233.527†	67077.3	66016.8	497.71 ug/L	497.71 ppb	16:03:31
1	Be 313.107†	1387326.3	1369534.8	487.48 ug/L	487.48 ppb	16:03:26
1	Cd 226.502†	47466.6	46912.6	496.69 ug/L	496.69 ppb	16:03:31
1	Co 228.616†	25754.4	25422.3	498.83 ug/L	498.83 ppb	16:03:31
1	Cr 267.716†	46911.2	46090.2	493.12 ug/L	493.12 ppb	16:03:31
1	Cu 324.752†	180279.7	170859.8	495.57 ug/L	495.57 ppb	16:03:31
1	Mn 257.610†	470562.1	462580.3	489.75 ug/L	489.75 ppb	16:03:26
1	Mo 202.031†	7401.3	7262.7	490.81 ug/L	490.81 ppb	16:03:51
1	Ni 231.604†	21275.8	20842.4	495.83 ug/L	495.83 ppb	16:03:31
1	P 214.914†	4518.8	4235.2	2341.3 ug/L	2341.3 ppb	16:03:51
1	Pb 220.353†	4208.1	4208.3	492.49 ug/L	492.49 ppb	16:03:51
1	S 181.975 Axial†	795.7	738.5	983.62 ug/L	983.62 ppb	16:03:51
1	Sb 206.836†	1537.2	1483.5	508.21 ug/L	508.21 ppb	16:03:51
1	Se 196.026†	814.1	825.2	520.60 ug/L	520.60 ppb	16:03:51
1	Si 251.611†	83362.6	81590.3	2491.9 ug/L	2491.9 ppb	16:03:31
1	Sn 189.927†	2968.6	2920.6	490.70 ug/L	490.70 ppb	16:03:51
1	Ti 334.940†	317897.5	314180.2	487.63 ug/L	487.63 ppb	16:03:31
1	Tl 190.801†	1671.5	1684.3	493.83 ug/L	493.83 ppb	16:03:51
1	U 409.014†	15954.8	17777.9	503.49 ug/L	503.49 ppb	16:03:31
1	V 292.402†	75314.4	75504.7	500.01 ug/L	500.01 ppb	16:03:31
1	Zn 213.857†	56930.7	55026.5	493.15 ug/L	493.15 ppb	16:03:31
1	SiO2†	82345.0	80573.4	5261.6 ug/L	5261.6 ppb	16:04:59
2	Sc Radial	5307.5	5307.5	99.9 %		16:02:34
2	Y RADIAL	5595.2	5595.2	98.64 %		16:02:34
2	Al 396.153Radial†	6807.9	6828.3	4954.5 ug/L	4954.5 ppb	16:02:34
2	Ca 317.933Radial†	3296.0	3276.3	4979.1 ug/L	4979.1 ppb	16:02:54
2	Fe 238.204 Radial†	615.0	605.2	5003.9 ug/L	5003.9 ppb	16:02:54
2	K 766.490 Radial†	30564.1	27931.9	5053.4 ug/L	5053.4 ppb	16:02:34
2	Mg 279.077 IEC†	166.8	163.7	5118.1 ug/L	5118.1 ppb	16:02:54
2	Na 589.592 Radial†	31876.0	33510.1	9765.6 ug/L	9765.6 ppb	16:02:34
2	Sr 421.552†	79016.3	79043.0	499.29 ug/L	499.29 ppb	16:02:34
2	Sc 361.383	872731.7	872731.7	100.05 %		16:03:57
2	Y 371.029	720933.4	720933.4	98.288 %		16:03:57
2	Ag 328.068†	112768.1	112330.0	502.89 ug/L	502.89 ppb	16:04:02
2	As 188.979†	1199.0	1221.8	500.30 ug/L	500.30 ppb	16:04:22
2	B 249.677†	22070.4	22695.7	492.57 ug/L	492.57 ppb	16:04:02
2	Ba 233.527†	66124.6	66099.0	498.33 ug/L	498.33 ppb	16:04:02
2	Be 313.107†	1377350.8	1380956.5	491.54 ug/L	491.54 ppb	16:03:57
2	Cd 226.502†	46622.6	46800.9	495.52 ug/L	495.52 ppb	16:04:02
2	Co 228.616†	25344.4	25409.6	498.60 ug/L	498.60 ppb	16:04:02
2	Cr 267.716†	46232.6	46135.2	493.60 ug/L	493.60 ppb	16:04:02
2	Cu 324.752†	177241.6	170603.1	494.82 ug/L	494.82 ppb	16:04:02
2	Mn 257.610†	468655.6	467930.7	495.40 ug/L	495.40 ppb	16:03:57
2	Mo 202.031†	7364.0	7339.6	495.99 ug/L	495.99 ppb	16:04:22
2	Ni 231.604†	20908.6	20803.5	494.90 ug/L	494.90 ppb	16:04:02

2	P 214.914†	4505.7	4291.8	2374.2 ug/L	2374.2 ppb	16:04:22
2	Pb 220.353†	4187.7	4252.9	497.70 ug/L	497.70 ppb	16:04:22
2	S 181.975 Axial†	786.4	741.4	987.56 ug/L	987.56 ppb	16:04:22
2	Sb 206.836†	1529.6	1499.6	513.73 ug/L	513.73 ppb	16:04:22
2	Se 196.026†	803.1	826.8	521.19 ug/L	521.19 ppb	16:04:22
2	Si 251.611†	82074.8	81588.5	2491.8 ug/L	2491.8 ppb	16:04:02
2	Sn 189.927†	2961.1	2958.8	497.09 ug/L	497.09 ppb	16:04:22
2	Ti 334.940†	312920.7	314107.8	487.51 ug/L	487.51 ppb	16:04:02
2	Tl 190.801†	1665.9	1704.5	499.75 ug/L	499.75 ppb	16:04:22
2	U 409.014†	15537.0	17606.3	498.63 ug/L	498.63 ppb	16:04:02
2	V 292.402†	74027.7	75380.0	499.28 ug/L	499.28 ppb	16:04:02
2	Zn 213.857†	55952.6	54926.7	492.27 ug/L	492.27 ppb	16:04:02
2	SiO2†	82220.4	81718.6	5336.4 ug/L	5336.4 ppb	16:05:04
3	Sc Radial	5295.6	5295.6	99.7 %		16:02:59
3	Y RADIAL	5617.3	5617.3	99.03 %		16:02:59
3	Al 396.153Radial†	6816.8	6852.5	4972.1 ug/L	4972.1 ppb	16:02:59
3	Ca 317.933Radial†	3289.4	3277.0	4980.2 ug/L	4980.2 ppb	16:03:19
3	Fe 238.204 Radial†	610.4	601.9	4977.4 ug/L	4977.4 ppb	16:03:19
3	K 766.490 Radial†	30591.2	28027.8	5070.8 ug/L	5070.8 ppb	16:02:59
3	Mg 279.077 IEC†	166.0	163.3	5104.3 ug/L	5104.3 ppb	16:03:19
3	Na 589.592 Radial†	31558.5	33263.3	9693.6 ug/L	9693.6 ppb	16:02:59
3	Sr 421.552†	78486.1	78688.9	497.05 ug/L	497.05 ppb	16:02:59
3	Sc 361.383	877563.2	877563.2	100.61 %		16:04:28
3	Y 371.029	725221.8	725221.8	98.873 %		16:04:28
3	Ag 328.068†	113564.4	112501.0	503.65 ug/L	503.65 ppb	16:04:33
3	As 188.979†	1211.2	1227.4	502.57 ug/L	502.57 ppb	16:04:53
3	B 249.677†	22286.1	22788.6	494.59 ug/L	494.59 ppb	16:04:33
3	Ba 233.527†	66356.9	65966.0	497.33 ug/L	497.33 ppb	16:04:33
3	Be 313.107†	1389577.0	1385529.8	493.16 ug/L	493.16 ppb	16:04:28
3	Cd 226.502†	46927.4	46847.3	496.01 ug/L	496.01 ppb	16:04:33
3	Co 228.616†	25505.9	25430.7	499.01 ug/L	499.01 ppb	16:04:33
3	Cr 267.716†	46528.8	46175.2	494.03 ug/L	494.03 ppb	16:04:33
3	Cu 324.752†	178439.3	170818.2	495.44 ug/L	495.44 ppb	16:04:33
3	Mn 257.610†	471386.6	468066.3	495.55 ug/L	495.55 ppb	16:04:28
3	Mo 202.031†	7430.5	7365.2	497.72 ug/L	497.72 ppb	16:04:53
3	Ni 231.604†	21088.6	20867.3	496.42 ug/L	496.42 ppb	16:04:33
3	P 214.914†	4547.3	4308.4	2383.6 ug/L	2383.6 ppb	16:04:53
3	Pb 220.353†	4205.5	4247.5	497.09 ug/L	497.09 ppb	16:04:53
3	S 181.975 Axial†	794.4	745.1	992.47 ug/L	992.47 ppb	16:04:53
3	Sb 206.836†	1543.8	1505.3	515.67 ug/L	515.67 ppb	16:04:53
3	Se 196.026†	799.4	818.7	516.21 ug/L	516.21 ppb	16:04:53
3	Si 251.611†	82490.9	81550.5	2490.6 ug/L	2490.6 ppb	16:04:33
3	Sn 189.927†	2978.9	2960.2	497.33 ug/L	497.33 ppb	16:04:53
3	Ti 334.940†	315580.5	315029.7	488.94 ug/L	488.94 ppb	16:04:33
3	Tl 190.801†	1669.3	1698.7	498.06 ug/L	498.06 ppb	16:04:53
3	U 409.014†	15600.5	17584.0	497.99 ug/L	497.99 ppb	16:04:33
3	V 292.402†	74718.4	75659.2	501.13 ug/L	501.13 ppb	16:04:33
3	Zn 213.857†	56340.3	55004.1	492.96 ug/L	492.96 ppb	16:04:33
3	SiO2†	83263.7	82303.2	5374.6 ug/L	5374.6 ppb	16:05:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	878900.6	100.76 %	0.795			0.79%
Sc Radial	5274.0	99.3 %	0.91			0.91%
Y 371.029	726121.9	98.996 %	0.7760			0.78%
Y RADIAL	5580.2	98.38 %	0.819			0.83%
Ag 328.068†	112408.9	503.26 ug/L	0.381	503.26 ppb	0.381	0.08%
QC value within limits for Ag 328.068 Recovery = 100.65%						
Al 396.153Radial†	6864.7	4981.1 ug/L	32.04	4981.1 ppb	32.04	0.64%
QC value within limits for Al 396.153Radial Recovery = 99.62%						
As 188.979†	1219.8	499.51 ug/L	3.520	499.51 ppb	3.520	0.70%
QC value within limits for As 188.979 Recovery = 99.90%						
B 249.677†	22754.8	493.85 ug/L	1.116	493.85 ppb	1.116	0.23%
QC value within limits for B 249.677 Recovery = 98.77%						
Ba 233.527†	66027.2	497.79 ug/L	0.503	497.79 ppb	0.503	0.10%
QC value within limits for Ba 233.527 Recovery = 99.56%						
Be 313.107†	1378673.7	490.73 ug/L	2.927	490.73 ppb	2.927	0.60%
QC value within limits for Be 313.107 Recovery = 98.15%						
Ca 317.933Radial†	3299.2	5014.0 ug/L	59.58	5014.0 ppb	59.58	1.19%

QC value within limits for Ca 317.933 Radial Recovery = 100.28%							
Cd 226.502†	46853.6	496.07 ug/L	0.588	496.07 ppb	0.588	0.12%	
QC value within limits for Cd 226.502 Recovery = 99.21%							
Co 228.616†	25420.8	498.81 ug/L	0.208	498.81 ppb	0.208	0.04%	
QC value within limits for Co 228.616 Recovery = 99.76%							
Cr 267.716†	46133.5	493.58 ug/L	0.455	493.58 ppb	0.455	0.09%	
QC value within limits for Cr 267.716 Recovery = 98.72%							
Cu 324.752†	170760.4	495.28 ug/L	0.401	495.28 ppb	0.401	0.08%	
QC value within limits for Cu 324.752 Recovery = 99.06%							
Fe 238.204 Radial†	608.8	5034.4 ug/L	76.89	5034.4 ppb	76.89	1.53%	
QC value within limits for Fe 238.204 Radial Recovery = 100.69%							
K 766.490 Radial†	28013.2	5068.1 ug/L	13.57	5068.1 ppb	13.57	0.27%	
QC value within limits for K 766.490 Radial Recovery = 101.36%							
Mg 279.077 IEC†	164.5	5141.3 ug/L	52.56	5141.3 ppb	52.56	1.02%	
QC value within limits for Mg 279.077 IEC Recovery = 102.83%							
Mn 257.610†	466192.4	493.57 ug/L	3.305	493.57 ppb	3.305	0.67%	
QC value within limits for Mn 257.610 Recovery = 98.71%							
Mo 202.031†	7322.5	494.84 ug/L	3.594	494.84 ppb	3.594	0.73%	
QC value within limits for Mo 202.031 Recovery = 98.97%							
Na 589.592 Radial†	33518.7	9768.1 ug/L	75.70	9768.1 ppb	75.70	0.77%	
QC value within limits for Na 589.592 Radial Recovery = 97.68%							
Ni 231.604†	20837.7	495.72 ug/L	0.766	495.72 ppb	0.766	0.15%	
QC value within limits for Ni 231.604 Recovery = 99.14%							
P 214.914†	4278.5	2366.4 ug/L	22.20	2366.4 ppb	22.20	0.94%	
QC value within limits for P 214.914 Recovery = 94.65%							
Pb 220.353†	4236.3	495.76 ug/L	2.845	495.76 ppb	2.845	0.57%	
QC value within limits for Pb 220.353 Recovery = 99.15%							
S 181.975 Axial†	741.7	987.88 ug/L	4.430	987.88 ppb	4.430	0.45%	
QC value within limits for S 181.975 Axial Recovery = 98.79%							
Sb 206.836†	1496.1	512.53 ug/L	3.871	512.53 ppb	3.871	0.76%	
QC value within limits for Sb 206.836 Recovery = 102.51%							
Se 196.026†	823.6	519.34 ug/L	2.724	519.34 ppb	2.724	0.52%	
QC value within limits for Se 196.026 Recovery = 103.87%							
Si 251.611†	81576.4	2491.5 ug/L	0.72	2491.5 ppb	0.72	0.03%	
QC value within limits for Si 251.611 Recovery = 99.66%							
Sn 189.927†	2946.5	495.04 ug/L	3.762	495.04 ppb	3.762	0.76%	
QC value within limits for Sn 189.927 Recovery = 99.01%							
Sr 421.552†	78955.2	498.74 ug/L	1.484	498.74 ppb	1.484	0.30%	
QC value within limits for Sr 421.552 Recovery = 99.75%							
Ti 334.940†	314439.2	488.03 ug/L	0.795	488.03 ppb	0.795	0.16%	
QC value within limits for Ti 334.940 Recovery = 97.61%							
Tl 190.801†	1695.8	497.21 ug/L	3.047	497.21 ppb	3.047	0.61%	
QC value within limits for Tl 190.801 Recovery = 99.44%							
U 409.014†	17656.0	500.04 ug/L	3.007	500.04 ppb	3.007	0.60%	
QC value within limits for U 409.014 Recovery = 100.01%							
V 292.402†	75514.6	500.14 ug/L	0.931	500.14 ppb	0.931	0.19%	
QC value within limits for V 292.402 Recovery = 100.03%							
Zn 213.857†	54985.8	492.80 ug/L	0.465	492.80 ppb	0.465	0.09%	
QC value within limits for Zn 213.857 Recovery = 98.56%							
SiO2†	81531.7	5324.2 ug/L	57.51	5324.2 ppb	57.51	1.08%	
QC value within limits for SiO2 Recovery = 99.56%							
All analyte(s) passed QC.							

Sequence No.: 10
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 1/13/2010 16:07:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5300.6	5300.6	99.8 %		16:09:12
1	Y RADIAL	5608.3	5608.3	98.87 %		16:09:12
1	Al 396.153Radial†	253.3	270.6	196.77 ug/L	196.77 ppb	16:09:12
1	Ca 317.933Radial†	146.8	125.6	190.82 ug/L	190.82 ppb	16:09:32
1	Fe 238.204 Radial†	23.9	13.8	113.76 ug/L	113.76 ppb	16:09:32
1	K 766.490 Radial†	3607.8	965.8	174.73 ug/L	174.73 ppb	16:09:12
1	Mg 279.077 IEC†	12.2	9.0	281.30 ug/L	281.30 ppb	16:09:32
1	Na 589.592 Radial†	-433.6	1182.6	344.63 ug/L	344.63 ppb	16:09:12
1	Sr 421.552†	748.2	733.9	4.6347 ug/L	4.6347 ppb	16:09:12
1	Sc 361.383	854415.2	854415.2	97.952 %		16:10:28
1	Y 371.029	716776.5	716776.5	97.722 %		16:10:28
1	Ag 328.068†	1464.4	1115.7	4.9746 ug/L	4.9746 ppb	16:10:28
1	As 188.979†	39.7	64.0	26.020 ug/L	26.020 ppb	16:10:48
1	B 249.677†	1819.7	2494.5	54.351 ug/L	54.351 ppb	16:10:28
1	Ba 233.527†	640.8	663.1	4.9999 ug/L	4.9999 ppb	16:10:48
1	Be 313.107†	9094.7	13609.2	4.8446 ug/L	4.8446 ppb	16:10:28
1	Cd 226.502†	286.1	494.7	5.2403 ug/L	5.2403 ppb	16:10:48
1	Co 228.616†	181.1	263.3	5.1773 ug/L	5.1773 ppb	16:10:48
1	Cr 267.716†	530.2	468.1	4.9902 ug/L	4.9902 ppb	16:10:48
1	Cu 324.752†	9915.4	3576.6	10.352 ug/L	10.352 ppb	16:10:28
1	Mn 257.610†	9923.7	9650.7	10.211 ug/L	10.211 ppb	16:10:28
1	Mo 202.031†	170.6	153.7	10.385 ug/L	10.385 ppb	16:10:48
1	Ni 231.604†	293.0	204.9	4.8742 ug/L	4.8742 ppb	16:10:48
1	P 214.914†	482.0	280.6	159.54 ug/L	159.54 ppb	16:10:48
1	Pb 220.353†	21.8	89.6	10.504 ug/L	10.504 ppb	16:10:48
1	S 181.975 Axial†	124.6	82.7	110.25 ug/L	110.25 ppb	16:10:48
1	Sb 206.836†	66.5	38.7	13.185 ug/L	13.185 ppb	16:10:48
1	Se 196.026†	14.2	38.7	23.943 ug/L	23.943 ppb	16:10:48
1	Si 251.611†	3668.9	3302.1	100.97 ug/L	100.97 ppb	16:10:28
1	Sn 189.927†	69.3	69.9	11.762 ug/L	11.762 ppb	16:10:48
1	Ti 334.940†	1875.3	3264.9	5.0471 ug/L	5.0471 ppb	16:10:28
1	Tl 190.801†	31.3	71.4	20.864 ug/L	20.864 ppb	16:10:48
1	U 409.014†	-269.0	1802.8	51.204 ug/L	51.204 ppb	16:10:28
1	V 292.402†	-684.4	692.2	4.7502 ug/L	4.7502 ppb	16:10:28
1	Zn 213.857†	1748.8	788.7	7.0741 ug/L	7.0741 ppb	16:10:48
1	SiO2†	3692.7	3311.0	216.48 ug/L	216.48 ppb	16:11:45
2	Sc Radial	5316.7	5316.7	100 %		16:09:37
2	Y RADIAL	5662.7	5662.7	99.83 %		16:09:37
2	Al 396.153Radial†	263.7	280.1	203.77 ug/L	203.77 ppb	16:09:37
2	Ca 317.933Radial†	150.7	129.0	196.06 ug/L	196.06 ppb	16:09:57
2	Fe 238.204 Radial†	21.2	11.0	90.597 ug/L	90.597 ppb	16:09:57
2	K 766.490 Radial†	3612.8	959.8	173.65 ug/L	173.65 ppb	16:09:37
2	Mg 279.077 IEC†	13.6	10.4	325.25 ug/L	325.25 ppb	16:09:57
2	Na 589.592 Radial†	-485.5	1132.1	329.92 ug/L	329.92 ppb	16:09:37
2	Sr 421.552†	765.9	749.2	4.7317 ug/L	4.7317 ppb	16:09:37
2	Sc 361.383	855368.2	855368.2	98.062 %		16:10:54
2	Y 371.029	718042.4	718042.4	97.894 %		16:10:54
2	Ag 328.068†	1431.6	1080.7	4.8062 ug/L	4.8062 ppb	16:10:54
2	As 188.979†	52.4	76.9	31.247 ug/L	31.247 ppb	16:11:14
2	B 249.677†	1830.1	2503.1	54.542 ug/L	54.542 ppb	16:10:54
2	Ba 233.527†	657.4	679.2	5.1202 ug/L	5.1202 ppb	16:11:14
2	Be 313.107†	9046.4	13549.7	4.8232 ug/L	4.8232 ppb	16:10:54
2	Cd 226.502†	275.3	483.4	5.1236 ug/L	5.1236 ppb	16:11:14
2	Co 228.616†	177.4	259.4	5.1005 ug/L	5.1005 ppb	16:11:14
2	Cr 267.716†	543.5	481.0	5.1258 ug/L	5.1258 ppb	16:11:14
2	Cu 324.752†	9949.2	3599.8	10.415 ug/L	10.415 ppb	16:10:54
2	Mn 257.610†	10032.5	9750.4	10.313 ug/L	10.313 ppb	16:10:54
2	Mo 202.031†	164.4	147.1	9.9414 ug/L	9.9414 ppb	16:11:14
2	Ni 231.604†	276.2	187.4	4.4580 ug/L	4.4580 ppb	16:11:14

2	P 214.914†	471.3	269.1	152.92 ug/L	152.92 ppb	16:11:14
2	Pb 220.353†	13.7	81.3	9.5405 ug/L	9.5405 ppb	16:11:14
2	S 181.975 Axial†	128.4	86.4	115.12 ug/L	115.12 ppb	16:11:14
2	Sb 206.836†	63.1	35.2	11.990 ug/L	11.990 ppb	16:11:14
2	Se 196.026†	15.4	39.9	24.597 ug/L	24.597 ppb	16:11:14
2	Si 251.611†	3679.7	3309.0	101.19 ug/L	101.19 ppb	16:10:54
2	Sn 189.927†	64.3	64.8	10.902 ug/L	10.902 ppb	16:11:14
2	Ti 334.940†	1783.3	3168.9	4.8929 ug/L	4.8929 ppb	16:10:54
2	Tl 190.801†	17.8	57.6	16.848 ug/L	16.848 ppb	16:11:14
2	U 409.014†	-82.5	1993.3	56.620 ug/L	56.620 ppb	16:10:54
2	V 292.402†	-700.8	676.2	4.6542 ug/L	4.6542 ppb	16:10:54
2	Zn 213.857†	1752.4	790.3	7.0935 ug/L	7.0935 ppb	16:11:14
2	SiO2†	3712.6	3327.1	217.54 ug/L	217.54 ppb	16:11:50
3	Sc Radial	5346.1	5346.1	101 %		16:10:02
3	Y RADIAL	5689.6	5689.6	100.3 %		16:10:02
3	Al 396.153Radial†	253.9	268.9	195.61 ug/L	195.61 ppb	16:10:02
3	Ca 317.933Radial†	141.6	119.1	181.06 ug/L	181.06 ppb	16:10:22
3	Fe 238.204 Radial†	21.7	11.4	94.033 ug/L	94.033 ppb	16:10:22
3	K 766.490 Radial†	3675.6	1002.4	181.37 ug/L	181.37 ppb	16:10:02
3	Mg 279.077 IEC†	13.1	9.8	306.38 ug/L	306.38 ppb	16:10:22
3	Na 589.592 Radial†	-447.5	1172.5	341.69 ug/L	341.69 ppb	16:10:02
3	Sr 421.552†	786.5	765.6	4.8348 ug/L	4.8348 ppb	16:10:02
3	Sc 361.383	863908.8	863908.8	99.041 %		16:11:19
3	Y 371.029	726109.2	726109.2	98.994 %		16:11:19
3	Ag 328.068†	1467.3	1102.3	4.9053 ug/L	4.9053 ppb	16:11:19
3	As 188.979†	49.2	73.1	29.706 ug/L	29.706 ppb	16:11:39
3	B 249.677†	1821.5	2476.0	53.950 ug/L	53.950 ppb	16:11:19
3	Ba 233.527†	656.0	671.1	5.0610 ug/L	5.0610 ppb	16:11:39
3	Be 313.107†	9340.5	13755.4	4.8966 ug/L	4.8966 ppb	16:11:19
3	Cd 226.502†	282.2	487.5	5.1678 ug/L	5.1678 ppb	16:11:39
3	Co 228.616†	168.2	248.2	4.8802 ug/L	4.8802 ppb	16:11:39
3	Cr 267.716†	534.8	466.8	4.9744 ug/L	4.9744 ppb	16:11:39
3	Cu 324.752†	9970.9	3521.4	10.187 ug/L	10.187 ppb	16:11:19
3	Mn 257.610†	10093.4	9710.7	10.272 ug/L	10.272 ppb	16:11:19
3	Mo 202.031†	158.3	139.3	9.4120 ug/L	9.4120 ppb	16:11:39
3	Ni 231.604†	318.0	226.8	5.3968 ug/L	5.3968 ppb	16:11:39
3	P 214.914†	485.5	278.7	158.47 ug/L	158.47 ppb	16:11:39
3	Pb 220.353†	18.8	86.4	10.126 ug/L	10.126 ppb	16:11:39
3	S 181.975 Axial†	114.4	71.0	94.652 ug/L	94.652 ppb	16:11:39
3	Sb 206.836†	61.6	33.0	11.270 ug/L	11.270 ppb	16:11:39
3	Se 196.026†	17.7	42.0	25.929 ug/L	25.929 ppb	16:11:39
3	Si 251.611†	3668.9	3261.0	99.723 ug/L	99.723 ppb	16:11:19
3	Sn 189.927†	70.1	70.0	11.778 ug/L	11.778 ppb	16:11:39
3	Ti 334.940†	1889.8	3258.5	5.0312 ug/L	5.0312 ppb	16:11:19
3	Tl 190.801†	25.0	64.7	18.897 ug/L	18.897 ppb	16:11:39
3	U 409.014†	-57.8	2019.1	57.352 ug/L	57.352 ppb	16:11:19
3	V 292.402†	-623.0	761.9	5.2070 ug/L	5.2070 ppb	16:11:19
3	Zn 213.857†	1757.7	778.0	6.9761 ug/L	6.9761 ppb	16:11:39
3	SiO2†	3707.9	3284.9	214.80 ug/L	214.80 ppb	16:11:55

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857897.4	98.352 %	0.5993			0.61%
Sc Radial	5321.1	100 %	0.4			0.43%
Y 371.029	720309.4	98.203 %	0.6902			0.70%
Y RADIAL	5653.5	99.67 %	0.731			0.73%
Ag 328.068†	1099.6	4.8954 ug/L	0.08463	4.8954 ppb	0.08463	1.73%
QC value within limits for Ag 328.068 Recovery = 97.91%						
Al 396.153Radial†	273.2	198.72 ug/L	4.416	198.72 ppb	4.416	2.22%
QC value within limits for Al 396.153Radial Recovery = 99.36%						
As 188.979†	71.3	28.991 ug/L	2.6859	28.991 ppb	2.6859	9.26%
QC value within limits for As 188.979 Recovery = 96.64%						
B 249.677†	2491.2	54.281 ug/L	0.3019	54.281 ppb	0.3019	0.56%
QC value within limits for B 249.677 Recovery = 108.56%						
Ba 233.527†	671.1	5.0604 ug/L	0.06014	5.0604 ppb	0.06014	1.19%
QC value within limits for Ba 233.527 Recovery = 101.21%						
Be 313.107†	13638.1	4.8548 ug/L	0.03773	4.8548 ppb	0.03773	0.78%
QC value within limits for Be 313.107 Recovery = 97.10%						
Ca 317.933Radial†	124.6	189.31 ug/L	7.610	189.31 ppb	7.610	4.02%

QC value within limits for Ca 317.933 Radial Recovery = 94.66%							
Cd 226.502†	488.5	5.1772 ug/L	0.05897	5.1772 ppb	0.05897	1.14%	
QC value within limits for Cd 226.502 Recovery = 103.54%							
Co 228.616†	257.0	5.0527 ug/L	0.15421	5.0527 ppb	0.15421	3.05%	
QC value within limits for Co 228.616 Recovery = 101.05%							
Cr 267.716†	472.0	5.0301 ug/L	0.08321	5.0301 ppb	0.08321	1.65%	
QC value within limits for Cr 267.716 Recovery = 100.60%							
Cu 324.752†	3566.0	10.318 ug/L	0.1175	10.318 ppb	0.1175	1.14%	
QC value within limits for Cu 324.752 Recovery = 103.18%							
Fe 238.204 Radial†	12.0	99.464 ug/L	12.5003	99.464 ppb	12.5003	12.57%	
QC value within limits for Fe 238.204 Radial Recovery = 99.46%							
K 766.490 Radial†	976.0	176.58 ug/L	4.178	176.58 ppb	4.178	2.37%	
QC value within limits for K 766.490 Radial Recovery = 117.72%							
Mg 279.077 IEC†	9.7	304.31 ug/L	22.044	304.31 ppb	22.044	7.24%	
QC value within limits for Mg 279.077 IEC Recovery = 101.44%							
Mn 257.610†	9704.0	10.265 ug/L	0.0510	10.265 ppb	0.0510	0.50%	
QC value within limits for Mn 257.610 Recovery = 102.65%							
Mo 202.031†	146.7	9.9129 ug/L	0.48725	9.9129 ppb	0.48725	4.92%	
QC value within limits for Mo 202.031 Recovery = 99.13%							
Na 589.592 Radial†	1162.4	338.74 ug/L	7.784	338.74 ppb	7.784	2.30%	
QC value within limits for Na 589.592 Radial Recovery = 112.91%							
Ni 231.604†	206.4	4.9097 ug/L	0.47040	4.9097 ppb	0.47040	9.58%	
QC value within limits for Ni 231.604 Recovery = 98.19%							
P 214.914†	276.1	156.98 ug/L	3.552	156.98 ppb	3.552	2.26%	
QC value within limits for P 214.914 Recovery = 104.65%							
Pb 220.353†	85.7	10.057 ug/L	0.4857	10.057 ppb	0.4857	4.83%	
QC value within limits for Pb 220.353 Recovery = 100.57%							
S 181.975 Axial†	80.0	106.67 ug/L	10.693	106.67 ppb	10.693	10.02%	
QC value within limits for S 181.975 Axial Recovery = 106.67%							
Sb 206.836†	35.6	12.148 ug/L	0.9675	12.148 ppb	0.9675	7.96%	
QC value within limits for Sb 206.836 Recovery = 121.48%							
Se 196.026†	40.2	24.823 ug/L	1.0120	24.823 ppb	1.0120	4.08%	
QC value within limits for Se 196.026 Recovery = 82.74%							
Si 251.611†	3290.7	100.63 ug/L	0.789	100.63 ppb	0.789	0.78%	
QC value within limits for Si 251.611 Recovery = 100.63%							
Sn 189.927†	68.3	11.480 ug/L	0.5009	11.480 ppb	0.5009	4.36%	
QC value within limits for Sn 189.927 Recovery = 114.80%							
Sr 421.552†	749.6	4.7337 ug/L	0.10008	4.7337 ppb	0.10008	2.11%	
QC value within limits for Sr 421.552 Recovery = 94.67%							
Ti 334.940†	3230.8	4.9904 ug/L	0.08483	4.9904 ppb	0.08483	1.70%	
QC value within limits for Ti 334.940 Recovery = 99.81%							
Tl 190.801†	64.6	18.870 ug/L	2.0082	18.870 ppb	2.0082	10.64%	
QC value within limits for Tl 190.801 Recovery = 94.35%							
U 409.014†	1938.4	55.058 ug/L	3.3583	55.058 ppb	3.3583	6.10%	
QC value within limits for U 409.014 Recovery = 110.12%							
V 292.402†	710.1	4.8705 ug/L	0.29538	4.8705 ppb	0.29538	6.06%	
QC value within limits for V 292.402 Recovery = 97.41%							
Zn 213.857†	785.6	7.0479 ug/L	0.06291	7.0479 ppb	0.06291	0.89%	
QC value within limits for Zn 213.857 Recovery = 70.48%							
SiO2†	3307.6	216.27 ug/L	1.385	216.27 ppb	1.385	0.64%	
QC value within limits for SiO2 Recovery = 101.54%							
All analyte(s) passed QC.							

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 16:14:05

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	5332.3	5332.3	100 %		16:15:57
1	Y RADIAL	5680.7	5680.7	100.1 %		16:15:57
1	Al 396.153Radial†	8.6	25.3	18.479 ug/L	18.479 ppb	16:15:57
1	Ca 317.933Radial†	20.9	-0.8	-1.1911 ug/L	-1.1911 ppb	16:16:17
1	Fe 238.204 Radial†	9.3	-0.9	-7.6048 ug/L	-7.6048 ppb	16:16:17
1	K 766.490 Radial†	2705.4	45.7	8.2511 ug/L	8.2511 ppb	16:15:57
1	Mg 279.077 IEC†	4.1	0.8	26.107 ug/L	26.107 ppb	16:16:17
1	Na 589.592 Radial†	-1439.0	183.9	53.602 ug/L	53.602 ppb	16:15:57
1	Sr 421.552†	38.7	22.9	0.1444 ug/L	0.1444 ppb	16:15:57
1	Sc 361.383	860935.9	860935.9	98.700 %		16:17:14
1	Y 371.029	723573.4	723573.4	98.648 %		16:17:14
1	Ag 328.068†	370.2	-4.2	-0.0211 ug/L	-0.0211 ppb	16:17:14
1	As 188.979†	-26.6	-3.5	-1.4202 ug/L	-1.4202 ppb	16:17:34
1	B 249.677†	-375.8	256.1	5.5835 ug/L	5.5835 ppb	16:17:34
1	Ba 233.527†	-10.8	-2.1	-0.0161 ug/L	-0.0161 ppb	16:17:34
1	Be 313.107†	-4396.5	-130.0	-0.0462 ug/L	-0.0462 ppb	16:17:14
1	Cd 226.502†	-181.7	18.6	0.1972 ug/L	0.1972 ppb	16:17:34
1	Co 228.616†	-66.8	-10.7	0.2091 ug/L	0.2091 ppb	16:17:34
1	Cr 267.716†	58.2	-14.3	-0.1528 ug/L	-0.1528 ppb	16:17:34
1	Cu 324.752†	6528.7	68.7	0.1990 ug/L	0.1990 ppb	16:17:14
1	Mn 257.610†	386.1	-89.2	-0.0962 ug/L	-0.0962 ppb	16:17:34
1	Mo 202.031†	9.6	-10.8	-0.7320 ug/L	-0.7320 ppb	16:17:34
1	Ni 231.604†	81.9	-11.3	-0.2682 ug/L	-0.2682 ppb	16:17:34
1	P 214.914†	216.4	7.8	4.4672 ug/L	4.4672 ppb	16:17:34
1	Pb 220.353†	-72.2	-5.8	-0.6717 ug/L	-0.6717 ppb	16:17:34
1	S 181.975 Axial†	42.8	-1.1	-1.5136 ug/L	-1.5136 ppb	16:17:34
1	Sb 206.836†	21.5	-7.4	-2.4289 ug/L	-2.4289 ppb	16:17:34
1	Se 196.026†	-35.7	-12.0	-7.3549 ug/L	-7.3549 ppb	16:17:34
1	Si 251.611†	419.3	-18.6	-0.5598 ug/L	-0.5598 ppb	16:17:34
1	Sn 189.927†	12.5	12.0	2.0045 ug/L	2.0045 ppb	16:17:34
1	Ti 334.940†	-1329.6	3.3	0.0028 ug/L	0.0028 ppb	16:17:14
1	Tl 190.801†	-37.6	1.4	0.4122 ug/L	0.4122 ppb	16:17:34
1	U 409.014†	-2052.9	-2.5	-0.0706 ug/L	-0.0706 ppb	16:17:14
1	V 292.402†	-1373.0	-0.1	-0.0097 ug/L	-0.0097 ppb	16:17:14
1	Zn 213.857†	970.4	-13.6	-0.1204 ug/L	-0.1204 ppb	16:17:34
1	SiO2†	453.7	0.8	0.0734 ug/L	0.0734 ppb	16:18:30
2	Sc Radial	5227.3	5227.3	98.4 %		16:16:22
2	Y RADIAL	5579.0	5579.0	98.35 %		16:16:22
2	Al 396.153Radial†	-4.7	12.0	8.7450 ug/L	8.7450 ppb	16:16:22
2	Ca 317.933Radial†	16.3	-5.0	-7.5627 ug/L	-7.5627 ppb	16:16:42
2	Fe 238.204 Radial†	12.4	2.4	19.992 ug/L	19.992 ppb	16:16:42
2	K 766.490 Radial†	2774.8	170.3	30.829 ug/L	30.829 ppb	16:16:22
2	Mg 279.077 IEC†	2.9	-0.3	-8.4422 ug/L	-8.4422 ppb	16:16:42
2	Na 589.592 Radial†	-1390.1	204.8	59.693 ug/L	59.693 ppb	16:16:22
2	Sr 421.552†	13.0	-2.5	-0.0159 ug/L	-0.0159 ppb	16:16:22
2	Sc 361.383	855471.7	855471.7	98.073 %		16:17:39
2	Y 371.029	718340.7	718340.7	97.935 %		16:17:39
2	Ag 328.068†	370.6	-1.4	-0.0055 ug/L	-0.0055 ppb	16:17:39
2	As 188.979†	-21.7	1.3	0.5436 ug/L	0.5436 ppb	16:17:59
2	B 249.677†	-409.6	219.1	4.7741 ug/L	4.7741 ppb	16:17:59
2	Ba 233.527†	-2.9	5.9	0.0447 ug/L	0.0447 ppb	16:17:59
2	Be 313.107†	-4434.6	-197.3	-0.0704 ug/L	-0.0704 ppb	16:17:39
2	Cd 226.502†	-183.6	15.4	0.1619 ug/L	0.1619 ppb	16:17:59
2	Co 228.616†	-74.5	2.5	0.0489 ug/L	0.0489 ppb	16:17:59
2	Cr 267.716†	76.6	4.9	0.0502 ug/L	0.0502 ppb	16:17:59
2	Cu 324.752†	6407.1	-13.0	-0.0401 ug/L	-0.0401 ppb	16:17:39
2	Mn 257.610†	375.6	-97.4	-0.1008 ug/L	-0.1008 ppb	16:17:59
2	Mo 202.031†	22.4	2.3	0.1558 ug/L	0.1558 ppb	16:17:59
2	Ni 231.604†	87.8	-4.7	-0.1108 ug/L	-0.1108 ppb	16:17:59

2	P 214.914†	225.8	18.7	10.793 ug/L	10.793 ppb	16:17:59
2	Pb 220.353†	-73.1	-7.2	-0.8358 ug/L	-0.8358 ppb	16:17:59
2	S 181.975 Axial†	45.8	2.2	2.9492 ug/L	2.9492 ppb	16:17:59
2	Sb 206.836†	32.2	3.6	1.2063 ug/L	1.2063 ppb	16:17:59
2	Se 196.026†	-24.8	-1.1	-0.6302 ug/L	-0.6302 ppb	16:17:59
2	Si 251.611†	444.1	9.4	0.2858 ug/L	0.2858 ppb	16:17:59
2	Sn 189.927†	6.1	5.4	0.9104 ug/L	0.9104 ppb	16:17:59
2	Ti 334.940†	-1422.0	-99.5	-0.1576 ug/L	-0.1576 ppb	16:17:39
2	Tl 190.801†	-20.0	19.1	5.5664 ug/L	5.5664 ppb	16:17:59
2	U 409.014†	-1823.2	218.4	6.2024 ug/L	6.2024 ppb	16:17:39
2	V 292.402†	-1388.4	-24.7	-0.1505 ug/L	-0.1505 ppb	16:17:39
2	Zn 213.857†	947.9	-30.2	-0.2742 ug/L	-0.2742 ppb	16:17:59
2	SiO2†	428.8	-21.7	-1.4256 ug/L	-1.4256 ppb	16:18:35
3	Sc Radial	5219.6	5219.6	98.3 %		16:16:47
3	Y RADIAL	5587.0	5587.0	98.50 %		16:16:47
3	Al 396.153Radial†	-29.8	-13.6	-9.9255 ug/L	-9.9255 ppb	16:16:47
3	Ca 317.933Radial†	14.3	-7.0	-10.658 ug/L	-10.658 ppb	16:17:07
3	Fe 238.204 Radial†	11.5	1.5	12.781 ug/L	12.781 ppb	16:17:07
3	K 766.490 Radial†	2684.0	82.1	14.862 ug/L	14.862 ppb	16:16:47
3	Mg 279.077 IEC†	-1.0	-4.2	-132.08 ug/L	-132.08 ppb	16:17:07
3	Na 589.592 Radial†	-1461.9	129.6	37.776 ug/L	37.776 ppb	16:16:47
3	Sr 421.552†	3.7	-11.9	-0.0751 ug/L	-0.0751 ppb	16:16:47
3	Sc 361.383	859970.4	859970.4	98.589 %		16:18:05
3	Y 371.029	722278.3	722278.3	98.472 %		16:18:05
3	Ag 328.068†	322.2	-52.4	-0.2343 ug/L	-0.2343 ppb	16:18:05
3	As 188.979†	-27.0	-3.9	-1.5953 ug/L	-1.5953 ppb	16:18:25
3	B 249.677†	-395.5	235.6	5.1341 ug/L	5.1341 ppb	16:18:25
3	Ba 233.527†	-9.5	-0.8	-0.0064 ug/L	-0.0064 ppb	16:18:25
3	Be 313.107†	-4372.9	-111.0	-0.0394 ug/L	-0.0394 ppb	16:18:05
3	Cd 226.502†	-179.1	21.0	0.2215 ug/L	0.2215 ppb	16:18:25
3	Co 228.616†	-71.2	6.2	0.1218 ug/L	0.1218 ppb	16:18:25
3	Cr 267.716†	51.0	-21.5	-0.2320 ug/L	-0.2320 ppb	16:18:25
3	Cu 324.752†	6449.3	-4.4	-0.0147 ug/L	-0.0147 ppb	16:18:05
3	Mn 257.610†	402.3	-72.4	-0.0699 ug/L	-0.0699 ppb	16:18:25
3	Mo 202.031†	18.7	-1.6	-0.1092 ug/L	-0.1092 ppb	16:18:25
3	Ni 231.604†	83.9	-9.1	-0.2169 ug/L	-0.2169 ppb	16:18:25
3	P 214.914†	211.2	2.7	1.5397 ug/L	1.5397 ppb	16:18:25
3	Pb 220.353†	-56.1	10.4	1.2082 ug/L	1.2082 ppb	16:18:25
3	S 181.975 Axial†	50.5	6.7	8.9171 ug/L	8.9171 ppb	16:18:25
3	Sb 206.836†	27.4	-1.5	-0.4912 ug/L	-0.4912 ppb	16:18:25
3	Se 196.026†	-25.0	-1.2	-0.7004 ug/L	-0.7004 ppb	16:18:25
3	Si 251.611†	423.0	-14.4	-0.4381 ug/L	-0.4381 ppb	16:18:25
3	Sn 189.927†	0.9	0.2	0.0256 ug/L	0.0256 ppb	16:18:25
3	Ti 334.940†	-1325.2	6.3	0.0171 ug/L	0.0171 ppb	16:18:05
3	Tl 190.801†	-39.1	-0.2	-0.0510 ug/L	-0.0510 ppb	16:18:25
3	U 409.014†	-1888.3	162.1	4.6056 ug/L	4.6056 ppb	16:18:05
3	V 292.402†	-1435.2	-64.8	-0.4205 ug/L	-0.4205 ppb	16:18:05
3	Zn 213.857†	952.6	-30.5	-0.2752 ug/L	-0.2752 ppb	16:18:25
3	SiO2†	447.8	-4.7	-0.3076 ug/L	-0.3076 ppb	16:18:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	858792.7	98.454 %	0.3343			0.34%
Sc Radial	5259.7	99.0 %	1.19			1.20%
Y 371.029	721397.5	98.351 %	0.3716			0.38%
Y RADIAL	5615.6	99.00 %	0.997			1.01%
Ag 328.068†	-19.3	-0.0870 ug/L	0.12785	-0.0870 ppb	0.12785	146.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	7.9	5.7661 ug/L	14.43457	5.7661 ppb	14.43457	250.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.0	-0.8240 ug/L	1.18762	-0.8240 ppb	1.18762	144.13%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	236.9	5.1639 ug/L	0.40549	5.1639 ppb	0.40549	7.85%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.0	0.0074 ug/L	0.03265	0.0074 ppb	0.03265	440.09%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-146.1	-0.0520 ug/L	0.01631	-0.0520 ppb	0.01631	31.37%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-4.3	-6.4706 ug/L	4.82696	-6.4706 ppb	4.82696	74.60%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	18.3	0.1935 ug/L	0.02999	0.1935 ppb	0.02999	15.50%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	6.5	0.1266 ug/L	0.08025	0.1266 ppb	0.08025	63.38%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-10.3	-0.1115 ug/L	0.14553	-0.1115 ppb	0.14553	130.49%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	17.1	0.0481 ug/L	0.13134	0.0481 ppb	0.13134	273.34%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.0	8.3892 ug/L	14.31278	8.3892 ppb	14.31278	170.61%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	99.4	17.981 ug/L	11.6074	17.981 ppb	11.6074	64.56%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.2	-38.139 ug/L	83.1701	-38.139 ppb	83.1701	218.07%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-86.3	-0.0890 ug/L	0.01665	-0.0890 ppb	0.01665	18.71%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.4	-0.2285 ug/L	0.45575	-0.2285 ppb	0.45575	199.46%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	172.8	50.357 ug/L	11.3132	50.357 ppb	11.3132	22.47%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-8.3	-0.1986 ug/L	0.08030	-0.1986 ppb	0.08030	40.42%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	9.7	5.5998 ug/L	4.72926	5.5998 ppb	4.72926	84.45%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.9	-0.0998 ug/L	1.13572	-0.0998 ppb	1.13572	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.6	3.4509 ug/L	5.23343	3.4509 ppb	5.23343	151.65%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.8	-0.5713 ug/L	1.81890	-0.5713 ppb	1.81890	318.38%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-4.8	-2.8952 ug/L	3.86240	-2.8952 ppb	3.86240	133.41%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-7.8	-0.2374 ug/L	0.45714	-0.2374 ppb	0.45714	192.60%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.8	0.9801 ug/L	0.99132	0.9801 ppb	0.99132	101.14%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	2.8	0.0178 ug/L	0.11359	0.0178 ppb	0.11359	637.96%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-30.0	-0.0459 ug/L	0.09703	-0.0459 ppb	0.09703	211.50%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	6.8	1.9759 ug/L	3.11812	1.9759 ppb	3.11812	157.81%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	126.0	3.5792 ug/L	3.26004	3.5792 ppb	3.26004	91.08%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-29.9	-0.1936 ug/L	0.20875	-0.1936 ppb	0.20875	107.83%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-24.7	-0.2233 ug/L	0.08906	-0.2233 ppb	0.08906	39.89%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-8.5	-0.5532 ug/L	0.77910	-0.5532 ppb	0.77910	140.83%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 22

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 17:31:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5232.3	5232.3	98.5 %		17:33:05
1	Y RADIAL	5526.4	5526.4	97.43 %		17:33:05
1	Al 396.153Radial†	6788.0	6906.1	5010.5 ug/L	5010.5 ppb	17:33:05
1	Ca 317.933Radial†	3320.2	3348.2	5088.4 ug/L	5088.4 ppb	17:33:25
1	Fe 238.204 Radial†	622.1	621.3	5137.1 ug/L	5137.1 ppb	17:33:25
1	K 766.490 Radial†	30456.8	28262.9	5113.1 ug/L	5113.1 ppb	17:33:05
1	Mg 279.077 IEC†	164.0	163.2	5102.2 ug/L	5102.2 ppb	17:33:25
1	Na 589.592 Radial†	32602.6	34706.3	10114 ug/L	10114 ppb	17:33:05
1	Sr 421.552†	79183.3	80349.6	507.54 ug/L	507.54 ppb	17:33:05
1	Sc 361.383	855207.0	855207.0	98.043 %		17:34:22
1	Y 371.029	705391.9	705391.9	96.169 %		17:34:22
1	Ag 328.068†	114268.6	116170.0	520.08 ug/L	520.08 ppb	17:34:28
1	As 188.979†	1215.3	1263.0	517.22 ug/L	517.22 ppb	17:34:48
1	B 249.677†	22388.4	23472.0	509.42 ug/L	509.42 ppb	17:34:28
1	Ba 233.527†	66887.8	68231.7	514.41 ug/L	514.41 ppb	17:34:28
1	Be 313.107†	1383982.5	1415930.2	504.01 ug/L	504.01 ppb	17:34:22
1	Cd 226.502†	47364.9	48512.9	513.65 ug/L	513.65 ppb	17:34:28
1	Co 228.616†	25658.0	26248.5	515.04 ug/L	515.04 ppb	17:34:28
1	Cr 267.716†	46948.6	47812.5	511.54 ug/L	511.54 ppb	17:34:28
1	Cu 324.752†	179827.2	176870.4	513.00 ug/L	513.00 ppb	17:34:28
1	Mn 257.610†	469918.8	478817.6	506.94 ug/L	506.94 ppb	17:34:22
1	Mo 202.031†	7428.2	7555.9	510.60 ug/L	510.60 ppb	17:34:48
1	Ni 231.604†	21255.1	21585.1	513.50 ug/L	513.50 ppb	17:34:28
1	P 214.914†	4544.0	4423.2	2446.2 ug/L	2446.2 ppb	17:34:48
1	Pb 220.353†	4218.0	4369.6	511.34 ug/L	511.34 ppb	17:34:48
1	S 181.975 Axial†	800.1	771.5	1027.6 ug/L	1027.6 ppb	17:34:48
1	Sb 206.836†	1539.1	1540.6	527.81 ug/L	527.81 ppb	17:34:48
1	Se 196.026†	800.8	840.9	530.25 ug/L	530.25 ppb	17:34:48
1	Si 251.611†	83050.3	84264.5	2573.6 ug/L	2573.6 ppb	17:34:28
1	Sn 189.927†	2985.7	3044.6	511.50 ug/L	511.50 ppb	17:34:48
1	Ti 334.940†	321538.6	329306.7	511.11 ug/L	511.11 ppb	17:34:22
1	Tl 190.801†	1670.6	1743.5	511.23 ug/L	511.23 ppb	17:34:48
1	U 409.014†	15666.2	18056.3	511.36 ug/L	511.36 ppb	17:34:28
1	V 292.402†	75323.2	78217.5	518.00 ug/L	518.00 ppb	17:34:28
1	Zn 213.857†	56764.4	56900.6	509.96 ug/L	509.96 ppb	17:34:28
1	SiO2†	83625.5	84835.7	5540.1 ug/L	5540.1 ppb	17:35:56
2	Sc Radial	5178.9	5178.9	97.5 %		17:33:30
2	Y RADIAL	5472.3	5472.3	96.47 %		17:33:30
2	Al 396.153Radial†	6808.6	6998.2	5077.5 ug/L	5077.5 ppb	17:33:30
2	Ca 317.933Radial†	3337.9	3401.0	5168.7 ug/L	5168.7 ppb	17:33:50
2	Fe 238.204 Radial†	626.6	632.3	5228.6 ug/L	5228.6 ppb	17:33:50
2	K 766.490 Radial†	30382.5	28504.9	5156.9 ug/L	5156.9 ppb	17:33:30
2	Mg 279.077 IEC†	173.9	175.0	5472.1 ug/L	5472.1 ppb	17:33:50
2	Na 589.592 Radial†	32347.0	34784.9	10137 ug/L	10137 ppb	17:33:30
2	Sr 421.552†	79097.4	81089.1	512.22 ug/L	512.22 ppb	17:33:30
2	Sc 361.383	857351.9	857351.9	98.289 %		17:34:54
2	Y 371.029	708856.5	708856.5	96.642 %		17:34:54
2	Ag 328.068†	113731.0	115331.5	516.37 ug/L	516.37 ppb	17:34:59
2	As 188.979†	1215.3	1259.9	515.97 ug/L	515.97 ppb	17:35:19
2	B 249.677†	22336.1	23361.7	507.01 ug/L	507.01 ppb	17:34:59
2	Ba 233.527†	66620.2	67788.7	511.07 ug/L	511.07 ppb	17:34:59
2	Be 313.107†	1388631.0	1417128.1	504.43 ug/L	504.43 ppb	17:34:54
2	Cd 226.502†	47251.0	48276.1	511.13 ug/L	511.13 ppb	17:34:59
2	Co 228.616†	25644.1	26168.9	513.48 ug/L	513.48 ppb	17:34:59
2	Cr 267.716†	46695.5	47435.1	507.51 ug/L	507.51 ppb	17:34:59
2	Cu 324.752†	178904.1	175472.4	508.95 ug/L	508.95 ppb	17:34:59
2	Mn 257.610†	470199.6	477904.3	505.97 ug/L	505.97 ppb	17:34:54
2	Mo 202.031†	7482.1	7591.8	513.04 ug/L	513.04 ppb	17:35:19
2	Ni 231.604†	21203.1	21477.9	510.95 ug/L	510.95 ppb	17:34:59

2	P 214.914†	4588.5	4456.8	2466.4 ug/L	2466.4 ppb	17:35:19
2	Pb 220.353†	4237.6	4378.7	512.42 ug/L	512.42 ppb	17:35:19
2	S 181.975 Axial†	820.4	790.2	1052.5 ug/L	1052.5 ppb	17:35:19
2	Sb 206.836†	1565.7	1563.7	535.50 ug/L	535.50 ppb	17:35:19
2	Se 196.026†	806.2	844.4	532.71 ug/L	532.71 ppb	17:35:19
2	Si 251.611†	82755.2	83752.4	2557.9 ug/L	2557.9 ppb	17:34:59
2	Sn 189.927†	3000.0	3051.4	512.66 ug/L	512.66 ppb	17:35:19
2	Ti 334.940†	321736.6	328687.7	510.14 ug/L	510.14 ppb	17:34:54
2	Tl 190.801†	1690.5	1759.5	515.90 ug/L	515.90 ppb	17:35:19
2	U 409.014†	15515.0	17862.5	505.85 ug/L	505.85 ppb	17:34:59
2	V 292.402†	74827.0	77520.5	513.47 ug/L	513.47 ppb	17:34:59
2	Zn 213.857†	56681.7	56671.7	507.90 ug/L	507.90 ppb	17:34:59
2	SiO2†	82444.0	83420.2	5447.4 ug/L	5447.4 ppb	17:36:01
3	Sc Radial	5134.8	5134.8	96.7 %		17:33:55
3	Y RADIAL	5453.7	5453.7	96.14 %		17:33:55
3	Al 396.153Radial†	6781.7	7030.3	5101.2 ug/L	5101.2 ppb	17:33:55
3	Ca 317.933Radial†	3322.8	3414.8	5189.7 ug/L	5189.7 ppb	17:34:15
3	Fe 238.204 Radial†	626.6	637.9	5274.1 ug/L	5274.1 ppb	17:34:15
3	K 766.490 Radial†	30391.7	28782.3	5207.1 ug/L	5207.1 ppb	17:33:55
3	Mg 279.077 IEC†	165.2	167.6	5239.7 ug/L	5239.7 ppb	17:34:15
3	Na 589.592 Radial†	32367.1	35090.9	10226 ug/L	10226 ppb	17:33:55
3	Sr 421.552†	79050.4	81737.9	516.31 ug/L	516.31 ppb	17:33:55
3	Sc 361.383	864600.4	864600.4	99.120 %		17:35:25
3	Y 371.029	713747.9	713747.9	97.309 %		17:35:25
3	Ag 328.068†	115729.7	116377.9	521.05 ug/L	521.05 ppb	17:35:30
3	As 188.979†	1206.6	1240.7	508.23 ug/L	508.23 ppb	17:35:50
3	B 249.677†	22741.6	23580.3	511.75 ug/L	511.75 ppb	17:35:30
3	Ba 233.527†	67811.5	68422.4	515.85 ug/L	515.85 ppb	17:35:30
3	Be 313.107†	1408382.7	1425210.7	507.31 ug/L	507.31 ppb	17:35:25
3	Cd 226.502†	48073.5	48702.9	515.65 ug/L	515.65 ppb	17:35:30
3	Co 228.616†	26125.1	26435.5	518.70 ug/L	518.70 ppb	17:35:30
3	Cr 267.716†	47616.8	47966.4	513.19 ug/L	513.19 ppb	17:35:30
3	Cu 324.752†	181903.3	176972.3	513.30 ug/L	513.30 ppb	17:35:30
3	Mn 257.610†	477462.0	481220.5	509.49 ug/L	509.49 ppb	17:35:25
3	Mo 202.031†	7487.0	7533.0	509.07 ug/L	509.07 ppb	17:35:50
3	Ni 231.604†	21573.6	21670.9	515.54 ug/L	515.54 ppb	17:35:30
3	P 214.914†	4602.2	4431.6	2450.9 ug/L	2450.9 ppb	17:35:50
3	Pb 220.353†	4243.7	4348.7	508.91 ug/L	508.91 ppb	17:35:50
3	S 181.975 Axial†	804.2	766.8	1021.4 ug/L	1021.4 ppb	17:35:50
3	Sb 206.836†	1566.6	1551.3	531.27 ug/L	531.27 ppb	17:35:50
3	Se 196.026†	810.2	841.5	531.09 ug/L	531.09 ppb	17:35:50
3	Si 251.611†	84208.8	84512.9	2581.2 ug/L	2581.2 ppb	17:35:30
3	Sn 189.927†	3004.5	3030.4	509.14 ug/L	509.14 ppb	17:35:50
3	Ti 334.940†	326478.5	330727.3	513.32 ug/L	513.32 ppb	17:35:25
3	Tl 190.801†	1694.9	1749.4	512.99 ug/L	512.99 ppb	17:35:50
3	U 409.014†	16093.4	18313.7	518.65 ug/L	518.65 ppb	17:35:30
3	V 292.402†	76205.8	78273.2	518.34 ug/L	518.34 ppb	17:35:30
3	Zn 213.857†	57691.8	57207.3	512.71 ug/L	512.71 ppb	17:35:30
3	SiO2†	82841.4	83118.0	5427.7 ug/L	5427.7 ppb	17:36:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859053.1	98.484 %	0.5643			0.57%
Sc Radial	5182.0	97.6 %	0.92			0.94%
Y 371.029	709332.1	96.707 %	0.5724			0.59%
Y RADIAL	5484.1	96.68 %	0.666			0.69%
Ag 328.068†	115959.8	519.17 ug/L	2.471	519.17 ppb	2.471	0.48%
QC value within limits for Ag 328.068 Recovery = 103.83%						
Al 396.153Radial†	6978.2	5063.1 ug/L	47.01	5063.1 ppb	47.01	0.93%
QC value within limits for Al 396.153Radial Recovery = 101.26%						
As 188.979†	1254.5	513.81 ug/L	4.869	513.81 ppb	4.869	0.95%
QC value within limits for As 188.979 Recovery = 102.76%						
B 249.677†	23471.3	509.39 ug/L	2.372	509.39 ppb	2.372	0.47%
QC value within limits for B 249.677 Recovery = 101.88%						
Ba 233.527†	68147.6	513.78 ug/L	2.451	513.78 ppb	2.451	0.48%
QC value within limits for Ba 233.527 Recovery = 102.76%						
Be 313.107†	1419423.0	505.25 ug/L	1.796	505.25 ppb	1.796	0.36%
QC value within limits for Be 313.107 Recovery = 101.05%						
Ca 317.933Radial†	3388.0	5148.9 ug/L	53.45	5148.9 ppb	53.45	1.04%

QC value within limits for Ca 317.933 Radial Recovery = 102.98%							
Cd	226.502†	48497.3	513.48 ug/L	2.265	513.48 ppb	2.265	0.44%
QC value within limits for Cd 226.502 Recovery = 102.70%							
Co	228.616†	26284.3	515.74 ug/L	2.676	515.74 ppb	2.676	0.52%
QC value within limits for Co 228.616 Recovery = 103.15%							
Cr	267.716†	47738.0	510.75 ug/L	2.922	510.75 ppb	2.922	0.57%
QC value within limits for Cr 267.716 Recovery = 102.15%							
Cu	324.752†	176438.3	511.75 ug/L	2.427	511.75 ppb	2.427	0.47%
QC value within limits for Cu 324.752 Recovery = 102.35%							
Fe	238.204 Radial†	630.5	5213.3 ug/L	69.75	5213.3 ppb	69.75	1.34%
QC value within limits for Fe 238.204 Radial Recovery = 104.27%							
K	766.490 Radial†	28516.7	5159.1 ug/L	47.05	5159.1 ppb	47.05	0.91%
QC value within limits for K 766.490 Radial Recovery = 103.18%							
Mg	279.077 IEC†	168.6	5271.3 ug/L	187.00	5271.3 ppb	187.00	3.55%
QC value within limits for Mg 279.077 IEC Recovery = 105.43%							
Mn	257.610†	479314.1	507.46 ug/L	1.819	507.46 ppb	1.819	0.36%
QC value within limits for Mn 257.610 Recovery = 101.49%							
Mo	202.031†	7560.2	510.90 ug/L	2.001	510.90 ppb	2.001	0.39%
QC value within limits for Mo 202.031 Recovery = 102.18%							
Na	589.592 Radial†	34860.7	10159 ug/L	59.2	10159 ppb	59.2	0.58%
QC value within limits for Na 589.592 Radial Recovery = 101.59%							
Ni	231.604†	21578.0	513.33 ug/L	2.300	513.33 ppb	2.300	0.45%
QC value within limits for Ni 231.604 Recovery = 102.67%							
P	214.914†	4437.2	2454.5 ug/L	10.55	2454.5 ppb	10.55	0.43%
QC value within limits for P 214.914 Recovery = 98.18%							
Pb	220.353†	4365.6	510.89 ug/L	1.798	510.89 ppb	1.798	0.35%
QC value within limits for Pb 220.353 Recovery = 102.18%							
S	181.975 Axial†	776.2	1033.8 ug/L	16.48	1033.8 ppb	16.48	1.59%
QC value within limits for S 181.975 Axial Recovery = 103.38%							
Sb	206.836†	1551.9	531.53 ug/L	3.849	531.53 ppb	3.849	0.72%
QC value within limits for Sb 206.836 Recovery = 106.31%							
Se	196.026†	842.3	531.35 ug/L	1.249	531.35 ppb	1.249	0.24%
QC value within limits for Se 196.026 Recovery = 106.27%							
Si	251.611†	84176.6	2570.9 ug/L	11.90	2570.9 ppb	11.90	0.46%
QC value within limits for Si 251.611 Recovery = 102.84%							
Sn	189.927†	3042.1	511.10 ug/L	1.797	511.10 ppb	1.797	0.35%
QC value within limits for Sn 189.927 Recovery = 102.22%							
Sr	421.552†	81058.9	512.02 ug/L	4.388	512.02 ppb	4.388	0.86%
QC value within limits for Sr 421.552 Recovery = 102.40%							
Ti	334.940†	329573.9	511.52 ug/L	1.629	511.52 ppb	1.629	0.32%
QC value within limits for Ti 334.940 Recovery = 102.30%							
Tl	190.801†	1750.8	513.37 ug/L	2.354	513.37 ppb	2.354	0.46%
QC value within limits for Tl 190.801 Recovery = 102.67%							
U	409.014†	18077.5	511.95 ug/L	6.422	511.95 ppb	6.422	1.25%
QC value within limits for U 409.014 Recovery = 102.39%							
V	292.402†	78003.8	516.60 ug/L	2.721	516.60 ppb	2.721	0.53%
QC value within limits for V 292.402 Recovery = 103.32%							
Zn	213.857†	56926.5	510.19 ug/L	2.410	510.19 ppb	2.410	0.47%
QC value within limits for Zn 213.857 Recovery = 102.04%							
SiO2†		83791.3	5471.7 ug/L	60.03	5471.7 ppb	60.03	1.10%
QC value within limits for SiO2 Recovery = 102.32%							
All analyte(s) passed QC.							

Sequence No.: 23
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 1/13/2010 17:38:16
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5340.1	5340.1	101 %		17:40:09
1	Y RADIAL	5695.4	5695.4	100.4 %		17:40:09
1	Al 396.153Radial†	261.0	276.3	200.97 ug/L	200.97 ppb	17:40:09
1	Ca 317.933Radial†	154.7	132.2	200.96 ug/L	200.96 ppb	17:40:29
1	Fe 238.204 Radial†	25.1	14.8	122.11 ug/L	122.11 ppb	17:40:29
1	K 766.490 Radial†	3780.3	1110.6	200.96 ug/L	200.96 ppb	17:40:09
1	Mg 279.077 IEC†	12.6	9.4	292.53 ug/L	292.53 ppb	17:40:29
1	Na 589.592 Radial†	-433.2	1186.2	345.67 ug/L	345.67 ppb	17:40:09
1	Sr 421.552†	810.6	790.4	4.9914 ug/L	4.9914 ppb	17:40:09
1	Sc 361.383	849219.9	849219.9	97.357 %		17:41:26
1	Y 371.029	713292.8	713292.8	97.247 %		17:41:26
1	Ag 328.068†	1448.4	1108.5	4.9460 ug/L	4.9460 ppb	17:41:26
1	As 188.979†	49.0	73.7	29.976 ug/L	29.976 ppb	17:41:46
1	B 249.677†	1930.5	2619.7	57.079 ug/L	57.079 ppb	17:41:26
1	Ba 233.527†	657.6	684.3	5.1601 ug/L	5.1601 ppb	17:41:46
1	Be 313.107†	9273.8	13850.0	4.9303 ug/L	4.9303 ppb	17:41:26
1	Cd 226.502†	281.2	491.4	5.2047 ug/L	5.2047 ppb	17:41:46
1	Co 228.616†	185.4	268.9	5.2854 ug/L	5.2854 ppb	17:41:46
1	Cr 267.716†	535.9	477.2	5.0885 ug/L	5.0885 ppb	17:41:46
1	Cu 324.752†	9934.8	3658.6	10.590 ug/L	10.590 ppb	17:41:26
1	Mn 257.610†	10101.3	9895.1	10.470 ug/L	10.470 ppb	17:41:26
1	Mo 202.031†	162.8	146.7	9.9137 ug/L	9.9137 ppb	17:41:46
1	Ni 231.604†	297.9	211.7	5.0372 ug/L	5.0372 ppb	17:41:46
1	P 214.914†	471.1	272.4	154.75 ug/L	154.75 ppb	17:41:46
1	Pb 220.353†	43.3	111.9	13.102 ug/L	13.102 ppb	17:41:46
1	S 181.975 Axial†	121.7	80.5	107.30 ug/L	107.30 ppb	17:41:46
1	Sb 206.836†	67.9	40.6	13.780 ug/L	13.780 ppb	17:41:46
1	Se 196.026†	17.7	42.3	26.201 ug/L	26.201 ppb	17:41:46
1	Si 251.611†	3768.4	3427.3	104.81 ug/L	104.81 ppb	17:41:26
1	Sn 189.927†	65.5	66.5	11.183 ug/L	11.183 ppb	17:41:46
1	Ti 334.940†	1901.5	3303.5	5.1077 ug/L	5.1077 ppb	17:41:26
1	Tl 190.801†	33.7	74.1	21.647 ug/L	21.647 ppb	17:41:46
1	U 409.014†	-292.2	1777.3	50.477 ug/L	50.477 ppb	17:41:26
1	V 292.402†	-661.4	711.6	4.8678 ug/L	4.8678 ppb	17:41:26
1	Zn 213.857†	1775.6	827.1	7.4192 ug/L	7.4192 ppb	17:41:46
1	SiO2†	3742.7	3385.4	221.36 ug/L	221.36 ppb	17:42:42
2	Sc Radial	5300.7	5300.7	99.8 %		17:40:34
2	Y RADIAL	5627.9	5627.9	99.22 %		17:40:34
2	Al 396.153Radial†	261.2	278.4	202.54 ug/L	202.54 ppb	17:40:34
2	Ca 317.933Radial†	154.4	133.1	202.31 ug/L	202.31 ppb	17:40:54
2	Fe 238.204 Radial†	24.4	14.2	117.55 ug/L	117.55 ppb	17:40:54
2	K 766.490 Radial†	3613.8	971.8	175.80 ug/L	175.80 ppb	17:40:34
2	Mg 279.077 IEC†	12.6	9.4	295.02 ug/L	295.02 ppb	17:40:54
2	Na 589.592 Radial†	-363.6	1252.7	365.08 ug/L	365.08 ppb	17:40:34
2	Sr 421.552†	826.2	812.0	5.1278 ug/L	5.1278 ppb	17:40:34
2	Sc 361.383	851499.6	851499.6	97.618 %		17:41:51
2	Y 371.029	716328.6	716328.6	97.660 %		17:41:51
2	Ag 328.068†	1471.1	1127.7	5.0252 ug/L	5.0252 ppb	17:41:51
2	As 188.979†	47.6	72.2	29.375 ug/L	29.375 ppb	17:42:11
2	B 249.677†	1864.9	2547.2	55.500 ug/L	55.500 ppb	17:41:51
2	Ba 233.527†	648.3	673.0	5.0751 ug/L	5.0751 ppb	17:42:11
2	Be 313.107†	9231.0	13780.7	4.9054 ug/L	4.9054 ppb	17:41:51
2	Cd 226.502†	291.4	501.1	5.3087 ug/L	5.3087 ppb	17:42:11
2	Co 228.616†	161.8	244.2	4.8018 ug/L	4.8018 ppb	17:42:11
2	Cr 267.716†	500.0	439.0	4.6775 ug/L	4.6775 ppb	17:42:11
2	Cu 324.752†	9966.8	3664.0	10.602 ug/L	10.602 ppb	17:41:51
2	Mn 257.610†	10070.2	9835.5	10.407 ug/L	10.407 ppb	17:41:51
2	Mo 202.031†	161.5	144.9	9.7920 ug/L	9.7920 ppb	17:42:11
2	Ni 231.604†	299.6	212.7	5.0598 ug/L	5.0598 ppb	17:42:11

2	P 214.914†	469.5	269.5	153.07 ug/L	153.07 ppb	17:42:11
2	Pb 220.353†	42.6	110.9	12.993 ug/L	12.993 ppb	17:42:11
2	S 181.975 Axial†	120.0	78.4	104.44 ug/L	104.44 ppb	17:42:11
2	Sb 206.836†	65.5	37.9	12.877 ug/L	12.877 ppb	17:42:11
2	Se 196.026†	24.6	49.3	30.415 ug/L	30.415 ppb	17:42:11
2	Si 251.611†	3720.7	3368.1	103.00 ug/L	103.00 ppb	17:41:51
2	Sn 189.927†	55.9	56.5	9.5124 ug/L	9.5124 ppb	17:42:11
2	Ti 334.940†	1822.7	3217.6	4.9716 ug/L	4.9716 ppb	17:41:51
2	Tl 190.801†	31.7	72.0	21.031 ug/L	21.031 ppb	17:42:11
2	U 409.014†	-67.3	2008.5	57.050 ug/L	57.050 ppb	17:41:51
2	V 292.402†	-645.4	729.8	4.9986 ug/L	4.9986 ppb	17:41:51
2	Zn 213.857†	1763.7	810.0	7.2652 ug/L	7.2652 ppb	17:42:11
2	SiO2†	3660.3	3290.7	215.17 ug/L	215.17 ppb	17:42:47
3	Sc Radial	5252.1	5252.1	98.9 %		17:40:59
3	Y RADIAL	5585.1	5585.1	98.46 %		17:40:59
3	Al 396.153Radial†	284.4	304.3	221.39 ug/L	221.39 ppb	17:40:59
3	Ca 317.933Radial†	152.7	132.9	201.94 ug/L	201.94 ppb	17:41:19
3	Fe 238.204 Radial†	21.6	11.7	96.386 ug/L	96.386 ppb	17:41:19
3	K 766.490 Radial†	3708.3	1100.8	199.19 ug/L	199.19 ppb	17:40:59
3	Mg 279.077 IEC†	10.8	7.7	239.98 ug/L	239.98 ppb	17:41:19
3	Na 589.592 Radial†	-386.6	1226.1	357.30 ug/L	357.30 ppb	17:40:59
3	Sr 421.552†	831.5	825.0	5.2104 ug/L	5.2104 ppb	17:40:59
3	Sc 361.383	862891.7	862891.7	98.924 %		17:42:17
3	Y 371.029	723997.3	723997.3	98.706 %		17:42:17
3	Ag 328.068†	1443.0	1079.4	4.8032 ug/L	4.8032 ppb	17:42:17
3	As 188.979†	42.5	66.4	27.004 ug/L	27.004 ppb	17:42:37
3	B 249.677†	1908.0	2565.5	55.903 ug/L	55.903 ppb	17:42:17
3	Ba 233.527†	659.0	675.0	5.0888 ug/L	5.0888 ppb	17:42:37
3	Be 313.107†	9367.1	13793.5	4.9105 ug/L	4.9105 ppb	17:42:17
3	Cd 226.502†	290.6	496.4	5.2602 ug/L	5.2602 ppb	17:42:37
3	Co 228.616†	167.5	247.8	4.8724 ug/L	4.8724 ppb	17:42:37
3	Cr 267.716†	510.6	443.0	4.7198 ug/L	4.7198 ppb	17:42:37
3	Cu 324.752†	10077.6	3641.1	10.536 ug/L	10.536 ppb	17:42:17
3	Mn 257.610†	10143.7	9773.6	10.341 ug/L	10.341 ppb	17:42:17
3	Mo 202.031†	165.0	146.3	9.8859 ug/L	9.8859 ppb	17:42:37
3	Ni 231.604†	263.7	172.3	4.0987 ug/L	4.0987 ppb	17:42:37
3	P 214.914†	466.0	259.5	147.36 ug/L	147.36 ppb	17:42:37
3	Pb 220.353†	15.0	82.5	9.6844 ug/L	9.6844 ppb	17:42:37
3	S 181.975 Axial†	123.5	80.3	106.99 ug/L	106.99 ppb	17:42:37
3	Sb 206.836†	61.2	32.6	11.124 ug/L	11.124 ppb	17:42:37
3	Se 196.026†	15.9	40.2	24.819 ug/L	24.819 ppb	17:42:37
3	Si 251.611†	3785.4	3383.1	103.46 ug/L	103.46 ppb	17:42:17
3	Sn 189.927†	58.1	58.0	9.7625 ug/L	9.7625 ppb	17:42:37
3	Ti 334.940†	1998.7	3370.8	5.2149 ug/L	5.2149 ppb	17:42:17
3	Tl 190.801†	39.2	79.1	23.102 ug/L	23.102 ppb	17:42:37
3	U 409.014†	-136.5	1939.4	55.089 ug/L	55.089 ppb	17:42:17
3	V 292.402†	-724.1	659.0	4.5350 ug/L	4.5350 ppb	17:42:17
3	Zn 213.857†	1777.6	800.2	7.1849 ug/L	7.1849 ppb	17:42:37
3	SiO2†	3733.3	3315.0	216.75 ug/L	216.75 ppb	17:42:52

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854537.1	97.966 %	0.8397			0.86%
Sc Radial	5297.6	99.8 %	0.83			0.83%
Y 371.029	717872.9	97.871 %	0.7521			0.77%
Y RADIAL	5636.2	99.36 %	0.981			0.99%
Ag 328.068†	1105.2	4.9248 ug/L	0.11250	4.9248 ppb	0.11250	2.28%
QC value within limits for Ag 328.068 Recovery = 98.50%						
Al 396.153Radial†	286.3	208.30 ug/L	11.361	208.30 ppb	11.361	5.45%
QC value within limits for Al 396.153Radial Recovery = 104.15%						
As 188.979†	70.8	28.785 ug/L	1.5716	28.785 ppb	1.5716	5.46%
QC value within limits for As 188.979 Recovery = 95.95%						
B 249.677†	2577.5	56.161 ug/L	0.8206	56.161 ppb	0.8206	1.46%
QC value within limits for B 249.677 Recovery = 112.32%						
Ba 233.527†	677.4	5.1080 ug/L	0.04565	5.1080 ppb	0.04565	0.89%
QC value within limits for Ba 233.527 Recovery = 102.16%						
Be 313.107†	13808.0	4.9154 ug/L	0.01317	4.9154 ppb	0.01317	0.27%
QC value within limits for Be 313.107 Recovery = 98.31%						
Ca 317.933Radial†	132.7	201.74 ug/L	0.699	201.74 ppb	0.699	0.35%

QC value within limits for Ca 317.933 Radial Recovery = 100.87%							
Cd 226.502†	496.3	5.2579 ug/L	0.05204	5.2579 ppb	0.05204	0.99%	
QC value within limits for Cd 226.502 Recovery = 105.16%							
Co 228.616†	253.6	4.9865 ug/L	0.26126	4.9865 ppb	0.26126	5.24%	
QC value within limits for Co 228.616 Recovery = 99.73%							
Cr 267.716†	453.1	4.8286 ug/L	0.22607	4.8286 ppb	0.22607	4.68%	
QC value within limits for Cr 267.716 Recovery = 96.57%							
Cu 324.752†	3654.6	10.576 ug/L	0.0353	10.576 ppb	0.0353	0.33%	
QC value within limits for Cu 324.752 Recovery = 105.76%							
Fe 238.204 Radial†	13.6	112.02 ug/L	13.726	112.02 ppb	13.726	12.25%	
QC value within limits for Fe 238.204 Radial Recovery = 112.02%							
K 766.490 Radial†	1061.1	191.98 ug/L	14.042	191.98 ppb	14.042	7.31%	
QC value within limits for K 766.490 Radial Recovery = 127.99%							
Mg 279.077 IEC†	8.8	275.85 ug/L	31.082	275.85 ppb	31.082	11.27%	
QC value within limits for Mg 279.077 IEC Recovery = 91.95%							
Mn 257.610†	9834.7	10.406 ug/L	0.0645	10.406 ppb	0.0645	0.62%	
QC value within limits for Mn 257.610 Recovery = 104.06%							
Mo 202.031†	145.9	9.8639 ug/L	0.06381	9.8639 ppb	0.06381	0.65%	
QC value within limits for Mo 202.031 Recovery = 98.64%							
Na 589.592 Radial†	1221.7	356.02 ug/L	9.764	356.02 ppb	9.764	2.74%	
QC value within limits for Na 589.592 Radial Recovery = 118.67%							
Ni 231.604†	198.9	4.7319 ug/L	0.54850	4.7319 ppb	0.54850	11.59%	
QC value within limits for Ni 231.604 Recovery = 94.64%							
P 214.914†	267.1	151.72 ug/L	3.872	151.72 ppb	3.872	2.55%	
QC value within limits for P 214.914 Recovery = 101.15%							
Pb 220.353†	101.8	11.927 ug/L	1.9425	11.927 ppb	1.9425	16.29%	
QC value within limits for Pb 220.353 Recovery = 119.27%							
S 181.975 Axial†	79.7	106.24 ug/L	1.570	106.24 ppb	1.570	1.48%	
QC value within limits for S 181.975 Axial Recovery = 106.24%							
Sb 206.836†	37.0	12.593 ug/L	1.3505	12.593 ppb	1.3505	10.72%	
QC value within limits for Sb 206.836 Recovery = 125.93%							
Se 196.026†	43.9	27.145 ug/L	2.9152	27.145 ppb	2.9152	10.74%	
QC value within limits for Se 196.026 Recovery = 90.48%							
Si 251.611†	3392.8	103.75 ug/L	0.942	103.75 ppb	0.942	0.91%	
QC value within limits for Si 251.611 Recovery = 103.75%							
Sn 189.927†	60.3	10.153 ug/L	0.9009	10.153 ppb	0.9009	8.87%	
QC value within limits for Sn 189.927 Recovery = 101.53%							
Sr 421.552†	809.1	5.1099 ug/L	0.11059	5.1099 ppb	0.11059	2.16%	
QC value within limits for Sr 421.552 Recovery = 102.20%							
Ti 334.940†	3297.3	5.0981 ug/L	0.12191	5.0981 ppb	0.12191	2.39%	
QC value within limits for Ti 334.940 Recovery = 101.96%							
Tl 190.801†	75.1	21.927 ug/L	1.0633	21.927 ppb	1.0633	4.85%	
QC value within limits for Tl 190.801 Recovery = 109.63%							
U 409.014†	1908.4	54.205 ug/L	3.3741	54.205 ppb	3.3741	6.22%	
QC value within limits for U 409.014 Recovery = 108.41%							
V 292.402†	700.1	4.8005 ug/L	0.23900	4.8005 ppb	0.23900	4.98%	
QC value within limits for V 292.402 Recovery = 96.01%							
Zn 213.857†	812.4	7.2898 ug/L	0.11909	7.2898 ppb	0.11909	1.63%	
QC value within limits for Zn 213.857 Recovery = 72.90%							
SiO2†	3330.3	217.76 ug/L	3.220	217.76 ppb	3.220	1.48%	
QC value within limits for SiO2 Recovery = 102.24%							
All analyte(s) passed QC.							

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 17:45:02

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	5385.4	5385.4	101 %		17:46:54
1	Y RADIAL	5758.3	5758.3	101.5 %		17:46:54
1	Al 396.153Radial†	18.5	35.0	25.500 ug/L	25.500 ppb	17:46:54
1	Ca 317.933Radial†	19.5	-2.3	-3.4937 ug/L	-3.4937 ppb	17:47:14
1	Fe 238.204 Radial†	11.0	0.7	5.7550 ug/L	5.7550 ppb	17:47:14
1	K 766.490 Radial†	2786.8	99.3	17.979 ug/L	17.979 ppb	17:46:54
1	Mg 279.077 IEC†	1.9	-1.4	-42.707 ug/L	-42.707 ppb	17:47:14
1	Na 589.592 Radial†	-1520.1	118.0	34.401 ug/L	34.401 ppb	17:46:54
1	Sr 421.552†	-11.3	-26.9	-0.1698 ug/L	-0.1698 ppb	17:46:54
1	Sc 361.383	860434.7	860434.7	98.642 %		17:48:11
1	Y 371.029	723502.6	723502.6	98.638 %		17:48:11
1	Ag 328.068†	334.8	-39.9	-0.1775 ug/L	-0.1775 ppb	17:48:11
1	As 188.979†	-27.9	-4.9	-1.9919 ug/L	-1.9919 ppb	17:48:31
1	B 249.677†	-365.6	266.2	5.8022 ug/L	5.8022 ppb	17:48:31
1	Ba 233.527†	-3.6	5.2	0.0389 ug/L	0.0389 ppb	17:48:31
1	Be 313.107†	-4403.5	-139.6	-0.0495 ug/L	-0.0495 ppb	17:48:11
1	Cd 226.502†	-176.4	23.8	0.2512 ug/L	0.2512 ppb	17:48:31
1	Co 228.616†	-77.9	-0.6	-0.0115 ug/L	-0.0115 ppb	17:48:31
1	Cr 267.716†	75.6	3.4	0.0355 ug/L	0.0355 ppb	17:48:31
1	Cu 324.752†	6525.5	69.3	0.2008 ug/L	0.2008 ppb	17:48:11
1	Mn 257.610†	419.5	-55.1	-0.0560 ug/L	-0.0560 ppb	17:48:31
1	Mo 202.031†	19.1	-1.2	-0.0790 ug/L	-0.0790 ppb	17:48:31
1	Ni 231.604†	93.7	0.7	0.0179 ug/L	0.0179 ppb	17:48:31
1	P 214.914†	220.8	12.3	7.0532 ug/L	7.0532 ppb	17:48:31
1	Pb 220.353†	-54.3	12.3	1.4421 ug/L	1.4421 ppb	17:48:31
1	S 181.975 Axial†	50.3	6.5	8.6185 ug/L	8.6185 ppb	17:48:31
1	Sb 206.836†	27.8	-1.0	-0.3345 ug/L	-0.3345 ppb	17:48:31
1	Se 196.026†	-23.1	0.7	0.4295 ug/L	0.4295 ppb	17:48:31
1	Si 251.611†	457.6	20.5	0.6285 ug/L	0.6285 ppb	17:48:31
1	Sn 189.927†	3.8	3.1	0.5116 ug/L	0.5116 ppb	17:48:31
1	Ti 334.940†	-1309.0	23.3	0.0387 ug/L	0.0387 ppb	17:48:11
1	Tl 190.801†	-32.0	7.1	2.0588 ug/L	2.0588 ppb	17:48:31
1	U 409.014†	-2011.0	38.8	1.1008 ug/L	1.1008 ppb	17:48:11
1	V 292.402†	-1408.9	-37.3	-0.2447 ug/L	-0.2447 ppb	17:48:11
1	Zn 213.857†	971.9	-11.4	-0.1042 ug/L	-0.1042 ppb	17:48:31
1	SiO2†	494.3	42.2	2.7657 ug/L	2.7657 ppb	17:49:27
2	Sc Radial	5182.8	5182.8	97.6 %		17:47:19
2	Y RADIAL	5540.2	5540.2	97.67 %		17:47:19
2	Al 396.153Radial†	-0.2	16.6	12.083 ug/L	12.083 ppb	17:47:19
2	Ca 317.933Radial†	20.6	-0.4	-0.6239 ug/L	-0.6239 ppb	17:47:39
2	Fe 238.204 Radial†	8.0	-1.9	-15.973 ug/L	-15.973 ppb	17:47:39
2	K 766.490 Radial†	2836.1	257.3	46.590 ug/L	46.590 ppb	17:47:19
2	Mg 279.077 IEC†	3.1	-0.1	-1.9770 ug/L	-1.9770 ppb	17:47:39
2	Na 589.592 Radial†	-1482.3	98.2	28.614 ug/L	28.614 ppb	17:47:19
2	Sr 421.552†	20.2	5.0	0.0315 ug/L	0.0315 ppb	17:47:19
2	Sc 361.383	862740.7	862740.7	98.907 %		17:48:36
2	Y 371.029	724865.5	724865.5	98.824 %		17:48:36
2	Ag 328.068†	389.0	14.1	0.0546 ug/L	0.0546 ppb	17:48:36
2	As 188.979†	-23.3	-0.1	-0.0486 ug/L	-0.0486 ppb	17:48:56
2	B 249.677†	-384.3	248.2	5.4137 ug/L	5.4137 ppb	17:48:56
2	Ba 233.527†	-17.4	-8.8	-0.0665 ug/L	-0.0665 ppb	17:48:56
2	Be 313.107†	-4287.5	-10.5	-0.0037 ug/L	-0.0037 ppb	17:48:36
2	Cd 226.502†	-177.3	23.4	0.2498 ug/L	0.2498 ppb	17:48:56
2	Co 228.616†	-70.9	6.7	0.1332 ug/L	0.1332 ppb	17:48:56
2	Cr 267.716†	78.4	6.1	0.0632 ug/L	0.0632 ppb	17:48:56
2	Cu 324.752†	6552.2	78.7	0.2254 ug/L	0.2254 ppb	17:48:36
2	Mn 257.610†	413.1	-62.7	-0.0679 ug/L	-0.0679 ppb	17:48:56
2	Mo 202.031†	24.6	4.3	0.2891 ug/L	0.2891 ppb	17:48:56
2	Ni 231.604†	80.2	-13.1	-0.3127 ug/L	-0.3127 ppb	17:48:56

2	P 214.914†	237.0	28.1	16.171 ug/L	16.171 ppb	17:48:56
2	Pb 220.353†	-64.9	1.7	0.2010 ug/L	0.2010 ppb	17:48:56
2	S 181.975 Axial†	50.0	6.1	8.0709 ug/L	8.0709 ppb	17:48:56
2	Sb 206.836†	33.9	5.0	1.7176 ug/L	1.7176 ppb	17:48:56
2	Se 196.026†	-19.8	4.1	2.4724 ug/L	2.4724 ppb	17:48:56
2	Si 251.611†	477.8	39.6	1.2096 ug/L	1.2096 ppb	17:48:56
2	Sn 189.927†	18.4	17.9	2.9985 ug/L	2.9985 ppb	17:48:56
2	Ti 334.940†	-1339.9	-4.3	-0.0081 ug/L	-0.0081 ppb	17:48:36
2	Tl 190.801†	-37.3	1.8	0.5262 ug/L	0.5262 ppb	17:48:56
2	U 409.014†	-1935.2	120.8	3.4340 ug/L	3.4340 ppb	17:48:36
2	V 292.402†	-1375.6	0.1	0.0135 ug/L	0.0135 ppb	17:48:36
2	Zn 213.857†	975.4	-10.5	-0.0921 ug/L	-0.0921 ppb	17:48:56
2	SiO2†	465.5	11.7	0.7583 ug/L	0.7583 ppb	17:49:32
3	Sc Radial	5322.3	5322.3	100 %		17:47:44
3	Y RADIAL	5664.6	5664.6	99.86 %		17:47:44
3	Al 396.153Radial†	13.6	30.3	22.082 ug/L	22.082 ppb	17:47:44
3	Ca 317.933Radial†	19.4	-2.2	-3.3787 ug/L	-3.3787 ppb	17:48:04
3	Fe 238.204 Radial†	9.3	-0.8	-6.9550 ug/L	-6.9550 ppb	17:48:04
3	K 766.490 Radial†	2825.9	170.9	30.942 ug/L	30.942 ppb	17:47:44
3	Mg 279.077 IEC†	3.3	0.1	3.8549 ug/L	3.8549 ppb	17:48:04
3	Na 589.592 Radial†	-1455.9	164.3	47.881 ug/L	47.881 ppb	17:47:44
3	Sr 421.552†	-24.8	-40.5	-0.2555 ug/L	-0.2555 ppb	17:47:44
3	Sc 361.383	855457.0	855457.0	98.072 %		17:49:02
3	Y 371.029	718459.8	718459.8	97.951 %		17:49:02
3	Ag 328.068†	333.9	-38.8	-0.1782 ug/L	-0.1782 ppb	17:49:02
3	As 188.979†	-21.1	1.9	0.7659 ug/L	0.7659 ppb	17:49:22
3	B 249.677†	-378.5	250.8	5.4690 ug/L	5.4690 ppb	17:49:22
3	Ba 233.527†	-5.6	3.1	0.0227 ug/L	0.0227 ppb	17:49:22
3	Be 313.107†	-4332.0	-92.7	-0.0330 ug/L	-0.0330 ppb	17:49:02
3	Cd 226.502†	-175.3	23.9	0.2545 ug/L	0.2545 ppb	17:49:22
3	Co 228.616†	-81.6	-4.8	-0.0938 ug/L	-0.0938 ppb	17:49:22
3	Cr 267.716†	73.6	1.8	0.0177 ug/L	0.0177 ppb	17:49:22
3	Cu 324.752†	6408.7	-11.3	-0.0347 ug/L	-0.0347 ppb	17:49:02
3	Mn 257.610†	424.7	-47.4	-0.0510 ug/L	-0.0510 ppb	17:49:22
3	Mo 202.031†	19.2	-1.0	-0.0696 ug/L	-0.0696 ppb	17:49:22
3	Ni 231.604†	97.8	5.5	0.1302 ug/L	0.1302 ppb	17:49:22
3	P 214.914†	222.7	15.6	9.0127 ug/L	9.0127 ppb	17:49:22
3	Pb 220.353†	-58.3	7.9	0.9224 ug/L	0.9224 ppb	17:49:22
3	S 181.975 Axial†	44.5	0.8	1.1167 ug/L	1.1167 ppb	17:49:22
3	Sb 206.836†	35.0	6.4	2.1395 ug/L	2.1395 ppb	17:49:22
3	Se 196.026†	-26.8	-3.2	-1.9913 ug/L	-1.9913 ppb	17:49:22
3	Si 251.611†	465.9	31.7	0.9702 ug/L	0.9702 ppb	17:49:22
3	Sn 189.927†	7.6	7.0	1.1749 ug/L	1.1749 ppb	17:49:22
3	Ti 334.940†	-1336.8	-12.7	-0.0217 ug/L	-0.0217 ppb	17:49:02
3	Tl 190.801†	-36.2	2.5	0.7332 ug/L	0.7332 ppb	17:49:22
3	U 409.014†	-1944.9	94.2	2.6785 ug/L	2.6785 ppb	17:49:02
3	V 292.402†	-1409.8	-46.6	-0.2996 ug/L	-0.2996 ppb	17:49:02
3	Zn 213.857†	973.5	-4.1	-0.0368 ug/L	-0.0368 ppb	17:49:22
3	SiO2†	496.1	46.9	3.0727 ug/L	3.0727 ppb	17:49:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859544.1	98.540 %	0.4268			0.43%
Sc Radial	5296.8	99.7 %	1.95			1.96%
Y 371.029	722276.0	98.471 %	0.4600			0.47%
Y RADIAL	5654.3	99.68 %	1.929			1.93%
Ag 328.068†	-21.5	-0.1003 ug/L	0.13423	-0.1003 ppb	0.13423	133.77%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	27.3	19.888 ug/L	6.9725	19.888 ppb	6.9725	35.06%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.0	-0.4249 ug/L	1.41688	-0.4249 ppb	1.41688	333.47%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	255.1	5.5616 ug/L	0.21014	5.5616 ppb	0.21014	3.78%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.1	-0.0016 ug/L	0.05673	-0.0016 ppb	0.05673	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-80.9	-0.0287 ug/L	0.02318	-0.0287 ppb	0.02318	80.69%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.6	-2.4987 ug/L	1.62471	-2.4987 ppb	1.62471	65.02%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	23.7	0.2518 ug/L	0.00239	0.2518 ppb	0.00239	0.95%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	0.5	0.0093 ug/L	0.11492	0.0093 ppb	0.11492	>999.9%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	3.8	0.0388 ug/L	0.02290	0.0388 ppb	0.02290	59.01%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	45.6	0.1305 ug/L	0.14358	0.1305 ppb	0.14358	110.02%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.7	-5.7245 ug/L	10.91634	-5.7245 ppb	10.91634	190.70%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	175.8	31.837 ug/L	14.3264	31.837 ppb	14.3264	45.00%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.4	-13.610 ug/L	25.3671	-13.610 ppb	25.3671	186.39%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-55.1	-0.0583 ug/L	0.00866	-0.0583 ppb	0.00866	14.87%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	0.7	0.0468 ug/L	0.20988	0.0468 ppb	0.20988	448.14%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	126.8	36.965 ug/L	9.8865	36.965 ppb	9.8865	26.75%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-2.3	-0.0549 ug/L	0.23023	-0.0549 ppb	0.23023	419.56%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	18.7	10.745 ug/L	4.7993	10.745 ppb	4.7993	44.66%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	7.3	0.8551 ug/L	0.62326	0.8551 ppb	0.62326	72.88%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	4.5	5.9354 ug/L	4.18207	5.9354 ppb	4.18207	70.46%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	3.5	1.1742 ug/L	1.32347	1.1742 ppb	1.32347	112.71%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	0.5	0.3036 ug/L	2.23448	0.3036 ppb	2.23448	736.10%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	30.6	0.9361 ug/L	0.29205	0.9361 ppb	0.29205	31.20%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	9.3	1.5616 ug/L	1.28775	1.5616 ppb	1.28775	82.46%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-20.8	-0.1313 ug/L	0.14735	-0.1313 ppb	0.14735	112.25%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	2.1	0.0030 ug/L	0.03171	0.0030 ppb	0.03171	>999.9%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.8	1.1061 ug/L	0.83156	1.1061 ppb	0.83156	75.18%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	84.6	2.4044 ug/L	1.19052	2.4044 ppb	1.19052	49.51%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-28.0	-0.1769 ug/L	0.16719	-0.1769 ppb	0.16719	94.50%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-8.7	-0.0777 ug/L	0.03594	-0.0777 ppb	0.03594	46.26%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		33.6	2.1989 ug/L	1.25702	2.1989 ppb	1.25702	57.16%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 31
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/13/2010 18:32:31
 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	5381.2	5381.2	101 %		18:34:23
1	Y RADIAL	5679.1	5679.1	100.1 %		18:34:23
1	Al 396.153Radial†	6883.9	6810.0	4940.2 ug/L	4940.2 ppb	18:34:23
1	Ca 317.933Radial†	3329.6	3264.2	4960.7 ug/L	4960.7 ppb	18:34:43
1	Fe 238.204 Radial†	627.6	609.1	5037.3 ug/L	5037.3 ppb	18:34:43
1	K 766.490 Radial†	30833.0	27778.5	5025.4 ug/L	5025.4 ppb	18:34:23
1	Mg 279.077 IEC†	167.5	162.1	5067.9 ug/L	5067.9 ppb	18:34:43
1	Na 589.592 Radial†	33614.5	34789.1	10138 ug/L	10138 ppb	18:34:23
1	Sr 421.552†	80952.3	79871.1	504.52 ug/L	504.52 ppb	18:34:23
1	Sc 361.383	848422.2	848422.2	97.265 %		18:35:41
1	Y 371.029	700044.9	700044.9	95.440 %		18:35:41
1	Ag 328.068†	113139.9	115941.7	519.03 ug/L	519.03 ppb	18:35:46
1	As 188.979†	1210.0	1267.5	519.09 ug/L	519.09 ppb	18:36:06
1	B 249.677†	22145.9	23405.4	507.99 ug/L	507.99 ppb	18:35:46
1	Ba 233.527†	66443.1	68320.0	515.07 ug/L	515.07 ppb	18:35:46
1	Be 313.107†	1397130.3	1440736.2	512.84 ug/L	512.84 ppb	18:35:41
1	Cd 226.502†	47014.0	48538.5	513.93 ug/L	513.93 ppb	18:35:46
1	Co 228.616†	25422.0	26215.2	514.38 ug/L	514.38 ppb	18:35:46
1	Cr 267.716†	46669.3	47908.3	512.56 ug/L	512.56 ppb	18:35:46
1	Cu 324.752†	177574.0	176020.6	510.53 ug/L	510.53 ppb	18:35:46
1	Mn 257.610†	473543.9	486377.6	514.93 ug/L	514.93 ppb	18:35:41
1	Mo 202.031†	7438.1	7626.7	515.37 ug/L	515.37 ppb	18:36:06
1	Ni 231.604†	21081.6	21580.2	513.38 ug/L	513.38 ppb	18:35:46
1	P 214.914†	4536.6	4452.6	2463.8 ug/L	2463.8 ppb	18:36:06
1	Pb 220.353†	4197.4	4382.8	512.88 ug/L	512.88 ppb	18:36:06
1	S 181.975 Axial†	798.0	775.9	1033.5 ug/L	1033.5 ppb	18:36:06
1	Sb 206.836†	1554.8	1569.3	537.44 ug/L	537.44 ppb	18:36:06
1	Se 196.026†	801.0	847.6	534.05 ug/L	534.05 ppb	18:36:06
1	Si 251.611†	82328.4	84199.7	2571.5 ug/L	2571.5 ppb	18:35:46
1	Sn 189.927†	2987.8	3071.1	515.92 ug/L	515.92 ppb	18:36:06
1	Ti 334.940†	323553.2	334000.5	518.38 ug/L	518.38 ppb	18:35:41
1	Tl 190.801†	1681.8	1768.5	518.64 ug/L	518.64 ppb	18:36:06
1	U 409.014†	15585.2	18100.8	512.63 ug/L	512.63 ppb	18:35:46
1	V 292.402†	74612.3	78101.0	517.32 ug/L	517.32 ppb	18:35:46
1	Zn 213.857†	56335.1	56922.3	510.17 ug/L	510.17 ppb	18:35:46
1	SiO2†	82696.6	84562.7	5522.1 ug/L	5522.1 ppb	18:37:14
2	Sc Radial	5252.0	5252.0	98.9 %		18:34:48
2	Y RADIAL	5543.1	5543.1	97.72 %		18:34:48
2	Al 396.153Radial†	6740.8	6832.6	4957.2 ug/L	4957.2 ppb	18:34:48
2	Ca 317.933Radial†	3324.5	3339.9	5075.9 ug/L	5075.9 ppb	18:35:08
2	Fe 238.204 Radial†	627.8	624.6	5164.5 ug/L	5164.5 ppb	18:35:08
2	K 766.490 Radial†	30220.1	27907.6	5048.8 ug/L	5048.8 ppb	18:34:48
2	Mg 279.077 IEC†	170.8	169.5	5299.2 ug/L	5299.2 ppb	18:35:08
2	Na 589.592 Radial†	32845.9	34828.1	10150 ug/L	10150 ppb	18:34:48
2	Sr 421.552†	78951.5	79813.7	504.16 ug/L	504.16 ppb	18:34:48
2	Sc 361.383	864550.3	864550.3	99.114 %		18:36:12
2	Y 371.029	714378.2	714378.2	97.395 %		18:36:12
2	Ag 328.068†	113353.8	113987.5	510.35 ug/L	510.35 ppb	18:36:17
2	As 188.979†	1204.5	1238.7	507.38 ug/L	507.38 ppb	18:36:37
2	B 249.677†	22273.0	23108.8	501.52 ug/L	501.52 ppb	18:36:17
2	Ba 233.527†	66493.4	67096.5	505.85 ug/L	505.85 ppb	18:36:17
2	Be 313.107†	1401715.4	1418566.0	504.94 ug/L	504.94 ppb	18:36:12
2	Cd 226.502†	47026.5	47649.3	504.49 ug/L	504.49 ppb	18:36:17
2	Co 228.616†	25495.4	25801.7	506.26 ug/L	506.26 ppb	18:36:17
2	Cr 267.716†	46660.0	47003.8	502.89 ug/L	502.89 ppb	18:36:17
2	Cu 324.752†	178342.5	173390.2	502.91 ug/L	502.91 ppb	18:36:17
2	Mn 257.610†	474267.2	478025.0	506.09 ug/L	506.09 ppb	18:36:12
2	Mo 202.031†	7434.0	7479.9	505.47 ug/L	505.47 ppb	18:36:37
2	Ni 231.604†	21097.9	21192.2	504.15 ug/L	504.15 ppb	18:36:17

2	P 214.914†	4540.7	4369.7	2417.4 ug/L	2417.4 ppb	18:36:37
2	Pb 220.353†	4212.5	4317.5	505.24 ug/L	505.24 ppb	18:36:37
2	S 181.975 Axial†	809.0	771.7	1027.9 ug/L	1027.9 ppb	18:36:37
2	Sb 206.836†	1540.8	1525.3	522.54 ug/L	522.54 ppb	18:36:37
2	Se 196.026†	801.4	832.7	525.33 ug/L	525.33 ppb	18:36:37
2	Si 251.611†	82493.1	82786.9	2528.4 ug/L	2528.4 ppb	18:36:17
2	Sn 189.927†	2987.8	3013.7	506.32 ug/L	506.32 ppb	18:36:37
2	Ti 334.940†	324580.4	328831.3	510.36 ug/L	510.36 ppb	18:36:12
2	Tl 190.801†	1681.0	1735.5	508.97 ug/L	508.97 ppb	18:36:37
2	U 409.014†	15636.9	17854.1	505.63 ug/L	505.63 ppb	18:36:17
2	V 292.402†	74822.1	76881.6	509.19 ug/L	509.19 ppb	18:36:17
2	Zn 213.857†	56449.4	55957.1	501.50 ug/L	501.50 ppb	18:36:17
2	SiO2†	81310.6	81578.3	5327.0 ug/L	5327.0 ppb	18:37:19
3	Sc Radial	5151.0	5151.0	97.0 %		18:35:14
3	Y RADIAL	5425.1	5425.1	95.64 %		18:35:14
3	Al 396.153Radial†	6748.8	6974.3	5060.6 ug/L	5060.6 ppb	18:35:14
3	Ca 317.933Radial†	3261.7	3341.1	5077.6 ug/L	5077.6 ppb	18:35:34
3	Fe 238.204 Radial†	616.7	625.6	5172.9 ug/L	5172.9 ppb	18:35:34
3	K 766.490 Radial†	30147.7	28431.9	5143.7 ug/L	5143.7 ppb	18:35:14
3	Mg 279.077 IEC†	167.5	169.5	5298.5 ug/L	5298.5 ppb	18:35:34
3	Na 589.592 Radial†	32406.9	35026.5	10207 ug/L	10207 ppb	18:35:14
3	Sr 421.552†	78675.0	81093.5	512.24 ug/L	512.24 ppb	18:35:14
3	Sc 361.383	867481.8	867481.8	99.450 %		18:36:43
3	Y 371.029	716356.6	716356.6	97.664 %		18:36:43
3	Ag 328.068†	113522.9	113771.1	509.38 ug/L	509.38 ppb	18:36:49
3	As 188.979†	1212.5	1242.6	508.94 ug/L	508.94 ppb	18:37:09
3	B 249.677†	22360.9	23121.2	501.80 ug/L	501.80 ppb	18:36:49
3	Ba 233.527†	66332.6	66708.0	502.93 ug/L	502.93 ppb	18:36:49
3	Be 313.107†	1392910.0	1404932.8	500.09 ug/L	500.09 ppb	18:36:43
3	Cd 226.502†	46969.2	47431.4	502.18 ug/L	502.18 ppb	18:36:49
3	Co 228.616†	25473.5	25692.7	504.13 ug/L	504.13 ppb	18:36:49
3	Cr 267.716†	46643.2	46827.8	501.01 ug/L	501.01 ppb	18:36:49
3	Cu 324.752†	178602.1	173043.2	501.90 ug/L	501.90 ppb	18:36:49
3	Mn 257.610†	472116.3	474245.2	502.09 ug/L	502.09 ppb	18:36:43
3	Mo 202.031†	7440.5	7461.1	504.20 ug/L	504.20 ppb	18:37:09
3	Ni 231.604†	21091.2	21113.6	502.28 ug/L	502.28 ppb	18:36:49
3	P 214.914†	4568.2	4382.0	2424.6 ug/L	2424.6 ppb	18:37:09
3	Pb 220.353†	4231.8	4322.5	505.85 ug/L	505.85 ppb	18:37:09
3	S 181.975 Axial†	801.1	761.0	1013.7 ug/L	1013.7 ppb	18:37:09
3	Sb 206.836†	1565.2	1544.6	528.89 ug/L	528.89 ppb	18:37:09
3	Se 196.026†	799.6	828.2	522.63 ug/L	522.63 ppb	18:37:09
3	Si 251.611†	82734.0	82747.8	2527.2 ug/L	2527.2 ppb	18:36:49
3	Sn 189.927†	2991.5	3007.3	505.25 ug/L	505.25 ppb	18:37:09
3	Ti 334.940†	322709.8	325843.8	505.72 ug/L	505.72 ppb	18:36:43
3	Tl 190.801†	1686.2	1735.0	508.78 ug/L	508.78 ppb	18:37:09
3	U 409.014†	15682.4	17846.5	505.42 ug/L	505.42 ppb	18:36:49
3	V 292.402†	74764.0	76568.1	507.13 ug/L	507.13 ppb	18:36:49
3	Zn 213.857†	56443.1	55758.3	499.72 ug/L	499.72 ppb	18:36:49
3	SiO2†	82114.6	82109.5	5361.8 ug/L	5361.8 ppb	18:37:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860151.5	98.610 %	1.1766			1.19%
Sc Radial	5261.4	99.1 %	2.17			2.19%
Y 371.029	710259.9	96.833 %	1.2136			1.25%
Y RADIAL	5549.1	97.83 %	2.241			2.29%
Ag 328.068†	114566.8	512.92 ug/L	5.314	512.92 ppb	5.314	1.04%
QC value within limits for Ag 328.068 Recovery = 102.58%						
Al 396.153Radial†	6872.3	4986.0 ug/L	65.15	4986.0 ppb	65.15	1.31%
QC value within limits for Al 396.153Radial Recovery = 99.72%						
As 188.979†	1249.6	511.80 ug/L	6.358	511.80 ppb	6.358	1.24%
QC value within limits for As 188.979 Recovery = 102.36%						
B 249.677†	23211.8	503.77 ug/L	3.655	503.77 ppb	3.655	0.73%
QC value within limits for B 249.677 Recovery = 100.75%						
Ba 233.527†	67374.8	507.95 ug/L	6.336	507.95 ppb	6.336	1.25%
QC value within limits for Ba 233.527 Recovery = 101.59%						
Be 313.107†	1421411.7	505.96 ug/L	6.432	505.96 ppb	6.432	1.27%
QC value within limits for Be 313.107 Recovery = 101.19%						
Ca 317.933Radial†	3315.1	5038.1 ug/L	66.96	5038.1 ppb	66.96	1.33%

QC value within limits for Ca 317.933Radial Recovery = 100.76%									
Cd	226.502†	47873.1	506.87 ug/L	6.223	506.87 ppb	6.223	1.23%		
QC value within limits for Cd 226.502 Recovery = 101.37%									
Co	228.616†	25903.2	508.26 ug/L	5.410	508.26 ppb	5.410	1.06%		
QC value within limits for Co 228.616 Recovery = 101.65%									
Cr	267.716†	47246.6	505.49 ug/L	6.199	505.49 ppb	6.199	1.23%		
QC value within limits for Cr 267.716 Recovery = 101.10%									
Cu	324.752†	174151.3	505.11 ug/L	4.716	505.11 ppb	4.716	0.93%		
QC value within limits for Cu 324.752 Recovery = 101.02%									
Fe	238.204 Radial†	619.8	5124.9 ug/L	76.02	5124.9 ppb	76.02	1.48%		
QC value within limits for Fe 238.204 Radial Recovery = 102.50%									
K	766.490 Radial†	28039.3	5072.6 ug/L	62.66	5072.6 ppb	62.66	1.24%		
QC value within limits for K 766.490 Radial Recovery = 101.45%									
Mg	279.077 IEC†	167.0	5221.8 ug/L	133.35	5221.8 ppb	133.35	2.55%		
QC value within limits for Mg 279.077 IEC Recovery = 104.44%									
Mn	257.610†	479549.3	507.71 ug/L	6.567	507.71 ppb	6.567	1.29%		
QC value within limits for Mn 257.610 Recovery = 101.54%									
Mo	202.031†	7522.5	508.35 ug/L	6.115	508.35 ppb	6.115	1.20%		
QC value within limits for Mo 202.031 Recovery = 101.67%									
Na	589.592 Radial†	34881.2	10165 ug/L	37.1	10165 ppb	37.1	0.37%		
QC value within limits for Na 589.592 Radial Recovery = 101.65%									
Ni	231.604†	21295.3	506.60 ug/L	5.943	506.60 ppb	5.943	1.17%		
QC value within limits for Ni 231.604 Recovery = 101.32%									
P	214.914†	4401.4	2435.2 ug/L	24.95	2435.2 ppb	24.95	1.02%		
QC value within limits for P 214.914 Recovery = 97.41%									
Pb	220.353†	4340.9	507.99 ug/L	4.249	507.99 ppb	4.249	0.84%		
QC value within limits for Pb 220.353 Recovery = 101.60%									
S	181.975 Axial†	769.5	1025.0 ug/L	10.20	1025.0 ppb	10.20	1.00%		
QC value within limits for S 181.975 Axial Recovery = 102.50%									
Sb	206.836†	1546.4	529.62 ug/L	7.478	529.62 ppb	7.478	1.41%		
QC value within limits for Sb 206.836 Recovery = 105.92%									
Se	196.026†	836.2	527.33 ug/L	5.967	527.33 ppb	5.967	1.13%		
QC value within limits for Se 196.026 Recovery = 105.47%									
Si	251.611†	83244.8	2542.4 ug/L	25.25	2542.4 ppb	25.25	0.99%		
QC value within limits for Si 251.611 Recovery = 101.70%									
Sn	189.927†	3030.7	509.16 ug/L	5.879	509.16 ppb	5.879	1.15%		
QC value within limits for Sn 189.927 Recovery = 101.83%									
Sr	421.552†	80259.4	506.97 ug/L	4.566	506.97 ppb	4.566	0.90%		
QC value within limits for Sr 421.552 Recovery = 101.39%									
Ti	334.940†	329558.5	511.49 ug/L	6.405	511.49 ppb	6.405	1.25%		
QC value within limits for Ti 334.940 Recovery = 102.30%									
Tl	190.801†	1746.4	512.13 ug/L	5.640	512.13 ppb	5.640	1.10%		
QC value within limits for Tl 190.801 Recovery = 102.43%									
U	409.014†	17933.8	507.89 ug/L	4.106	507.89 ppb	4.106	0.81%		
QC value within limits for U 409.014 Recovery = 101.58%									
V	292.402†	77183.6	511.21 ug/L	5.386	511.21 ppb	5.386	1.05%		
QC value within limits for V 292.402 Recovery = 102.24%									
Zn	213.857†	56212.6	503.80 ug/L	5.592	503.80 ppb	5.592	1.11%		
QC value within limits for Zn 213.857 Recovery = 100.76%									
SiO2†		82750.2	5403.6 ug/L	104.07	5403.6 ppb	104.07	1.93%		
QC value within limits for SiO2 Recovery = 101.05%									
All analyte(s) passed QC.									

Sequence No.: 32

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 1/13/2010 18:39:34

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	5080.0	5080.0	95.7 %		18:41:26
1	Y RADIAL	5437.4	5437.4	95.86 %		18:41:26
1	Al 396.153Radial†	269.7	298.7	217.36 ug/L	217.36 ppb	18:41:26
1	Ca 317.933Radial†	151.0	136.3	207.19 ug/L	207.19 ppb	18:41:46
1	Fe 238.204 Radial†	22.1	12.9	106.83 ug/L	106.83 ppb	18:41:46
1	K 766.490 Radial†	3586.3	1100.3	199.09 ug/L	199.09 ppb	18:41:26
1	Mg 279.077 IEC†	12.9	10.3	322.11 ug/L	322.11 ppb	18:41:46
1	Na 589.592 Radial†	-420.1	1177.9	343.26 ug/L	343.26 ppb	18:41:26
1	Sr 421.552†	786.5	806.4	5.0928 ug/L	5.0928 ppb	18:41:26
1	Sc 361.383	867291.3	867291.3	99.429 %		18:42:43
1	Y 371.029	728509.0	728509.0	99.321 %		18:42:43
1	Ag 328.068†	1520.9	1150.4	5.1281 ug/L	5.1281 ppb	18:42:48
1	As 188.979†	44.9	68.5	27.880 ug/L	27.880 ppb	18:43:08
1	B 249.677†	1867.7	2515.2	54.805 ug/L	54.805 ppb	18:42:48
1	Ba 233.527†	664.7	677.3	5.1078 ug/L	5.1078 ppb	18:43:08
1	Be 313.107†	9334.2	13712.3	4.8812 ug/L	4.8812 ppb	18:42:48
1	Cd 226.502†	286.2	490.5	5.1960 ug/L	5.1960 ppb	18:43:08
1	Co 228.616†	169.9	249.3	4.9003 ug/L	4.9003 ppb	18:43:08
1	Cr 267.716†	526.0	455.8	4.8597 ug/L	4.8597 ppb	18:43:08
1	Cu 324.752†	10036.5	3548.2	10.269 ug/L	10.269 ppb	18:42:48
1	Mn 257.610†	10087.6	9665.1	10.224 ug/L	10.224 ppb	18:42:48
1	Mo 202.031†	154.2	134.6	9.0962 ug/L	9.0962 ppb	18:43:08
1	Ni 231.604†	276.5	183.8	4.3729 ug/L	4.3729 ppb	18:43:08
1	P 214.914†	461.3	252.4	143.35 ug/L	143.35 ppb	18:43:08
1	Pb 220.353†	22.8	90.2	10.582 ug/L	10.582 ppb	18:43:08
1	S 181.975 Axial†	119.2	75.3	100.40 ug/L	100.40 ppb	18:43:08
1	Sb 206.836†	68.1	39.2	13.344 ug/L	13.344 ppb	18:43:08
1	Se 196.026†	21.5	45.8	28.245 ug/L	28.245 ppb	18:43:08
1	Si 251.611†	3704.6	3282.5	100.38 ug/L	100.38 ppb	18:42:48
1	Sn 189.927†	72.4	72.0	12.114 ug/L	12.114 ppb	18:43:08
1	Ti 334.940†	1897.0	3258.3	5.0361 ug/L	5.0361 ppb	18:42:48
1	Tl 190.801†	38.3	78.0	22.778 ug/L	22.778 ppb	18:43:08
1	U 409.014†	-294.8	1780.9	50.583 ug/L	50.583 ppb	18:42:43
1	V 292.402†	-644.0	743.2	5.0659 ug/L	5.0659 ppb	18:42:48
1	Zn 213.857†	1755.2	768.6	6.8965 ug/L	6.8965 ppb	18:43:08
1	SiO2†	3745.6	3308.3	216.34 ug/L	216.34 ppb	18:44:14
2	Sc Radial	5391.4	5391.4	102 %		18:41:51
2	Y RADIAL	5758.2	5758.2	101.5 %		18:41:51
2	Al 396.153Radial†	247.2	260.2	189.27 ug/L	189.27 ppb	18:41:51
2	Ca 317.933Radial†	154.3	130.4	198.22 ug/L	198.22 ppb	18:42:11
2	Fe 238.204 Radial†	21.5	11.0	90.838 ug/L	90.838 ppb	18:42:11
2	K 766.490 Radial†	3712.1	1007.6	182.31 ug/L	182.31 ppb	18:41:51
2	Mg 279.077 IEC†	11.2	7.8	243.99 ug/L	243.99 ppb	18:42:11
2	Na 589.592 Radial†	-462.2	1161.7	338.56 ug/L	338.56 ppb	18:41:51
2	Sr 421.552†	795.5	767.8	4.8490 ug/L	4.8490 ppb	18:41:51
2	Sc 361.383	862115.4	862115.4	98.835 %		18:43:13
2	Y 371.029	724667.3	724667.3	98.797 %		18:43:13
2	Ag 328.068†	1493.4	1131.7	5.0393 ug/L	5.0393 ppb	18:43:18
2	As 188.979†	52.2	76.2	31.000 ug/L	31.000 ppb	18:43:38
2	B 249.677†	1872.4	2531.3	55.156 ug/L	55.156 ppb	18:43:18
2	Ba 233.527†	667.0	683.7	5.1564 ug/L	5.1564 ppb	18:43:38
2	Be 313.107†	9399.6	13834.8	4.9251 ug/L	4.9251 ppb	18:43:18
2	Cd 226.502†	302.1	508.3	5.3869 ug/L	5.3869 ppb	18:43:38
2	Co 228.616†	192.0	272.7	5.3600 ug/L	5.3600 ppb	18:43:38
2	Cr 267.716†	522.5	455.4	4.8549 ug/L	4.8549 ppb	18:43:38
2	Cu 324.752†	9973.9	3545.4	10.258 ug/L	10.258 ppb	18:43:18
2	Mn 257.610†	10134.6	9773.6	10.341 ug/L	10.341 ppb	18:43:18
2	Mo 202.031†	162.7	144.1	9.7375 ug/L	9.7375 ppb	18:43:38
2	Ni 231.604†	289.6	198.8	4.7285 ug/L	4.7285 ppb	18:43:38

2	P 214.914†	471.9	266.0	151.15 ug/L	151.15 ppb	18:43:38
2	Pb 220.353†	17.7	85.3	10.001 ug/L	10.001 ppb	18:43:38
2	S 181.975 Axial†	120.6	77.4	103.22 ug/L	103.22 ppb	18:43:38
2	Sb 206.836†	67.4	39.0	13.259 ug/L	13.259 ppb	18:43:38
2	Se 196.026†	11.3	35.6	21.975 ug/L	21.975 ppb	18:43:38
2	Si 251.611†	3748.4	3349.1	102.42 ug/L	102.42 ppb	18:43:18
2	Sn 189.927†	65.3	65.3	10.982 ug/L	10.982 ppb	18:43:38
2	Ti 334.940†	1984.8	3358.5	5.1954 ug/L	5.1954 ppb	18:43:18
2	Tl 190.801†	24.9	64.7	18.892 ug/L	18.892 ppb	18:43:38
2	U 409.014†	-179.8	1895.5	53.840 ug/L	53.840 ppb	18:43:13
2	V 292.402†	-566.6	817.6	5.5684 ug/L	5.5684 ppb	18:43:18
2	Zn 213.857†	1769.6	793.7	7.1229 ug/L	7.1229 ppb	18:43:38
2	SiO2†	3714.9	3299.8	215.76 ug/L	215.76 ppb	18:44:19
3	Sc Radial	5231.6	5231.6	98.5 %		18:42:16
3	Y RADIAL	5581.4	5581.4	98.40 %		18:42:16
3	Al 396.153Radial†	276.5	297.4	216.34 ug/L	216.34 ppb	18:42:16
3	Ca 317.933Radial†	154.0	134.8	204.81 ug/L	204.81 ppb	18:42:36
3	Fe 238.204 Radial†	22.8	13.0	107.29 ug/L	107.29 ppb	18:42:36
3	K 766.490 Radial†	3502.3	906.4	163.97 ug/L	163.97 ppb	18:42:16
3	Mg 279.077 IEC†	9.2	6.1	192.16 ug/L	192.16 ppb	18:42:36
3	Na 589.592 Radial†	-454.3	1155.9	336.84 ug/L	336.84 ppb	18:42:16
3	Sr 421.552†	821.6	818.3	5.1677 ug/L	5.1677 ppb	18:42:16
3	Sc 361.383	863356.2	863356.2	98.977 %		18:43:44
3	Y 371.029	724213.3	724213.3	98.735 %		18:43:44
3	Ag 328.068†	1458.4	1094.2	4.8709 ug/L	4.8709 ppb	18:43:49
3	As 188.979†	50.1	74.1	30.124 ug/L	30.124 ppb	18:44:09
3	B 249.677†	1802.2	2457.6	53.547 ug/L	53.547 ppb	18:43:49
3	Ba 233.527†	664.4	680.1	5.1284 ug/L	5.1284 ppb	18:44:09
3	Be 313.107†	9292.1	13712.6	4.8815 ug/L	4.8815 ppb	18:43:49
3	Cd 226.502†	280.8	486.3	5.1534 ug/L	5.1534 ppb	18:44:09
3	Co 228.616†	174.3	254.5	5.0050 ug/L	5.0050 ppb	18:44:09
3	Cr 267.716†	536.1	468.4	4.9907 ug/L	4.9907 ppb	18:44:09
3	Cu 324.752†	10002.7	3560.1	10.299 ug/L	10.299 ppb	18:43:49
3	Mn 257.610†	10100.2	9724.1	10.292 ug/L	10.292 ppb	18:43:49
3	Mo 202.031†	167.7	148.9	10.065 ug/L	10.065 ppb	18:44:09
3	Ni 231.604†	299.6	208.5	4.9605 ug/L	4.9605 ppb	18:44:09
3	P 214.914†	469.6	263.0	149.40 ug/L	149.40 ppb	18:44:09
3	Pb 220.353†	15.5	83.0	9.7365 ug/L	9.7365 ppb	18:44:09
3	S 181.975 Axial†	117.4	74.1	98.696 ug/L	98.696 ppb	18:44:09
3	Sb 206.836†	57.8	29.2	10.036 ug/L	10.036 ppb	18:44:09
3	Se 196.026†	24.3	48.7	30.024 ug/L	30.024 ppb	18:44:09
3	Si 251.611†	3720.4	3315.4	101.38 ug/L	101.38 ppb	18:43:49
3	Sn 189.927†	69.1	69.0	11.610 ug/L	11.610 ppb	18:44:09
3	Ti 334.940†	1934.9	3305.3	5.1156 ug/L	5.1156 ppb	18:43:49
3	Tl 190.801†	24.5	64.2	18.774 ug/L	18.774 ppb	18:44:09
3	U 409.014†	-1.6	2075.8	58.961 ug/L	58.961 ppb	18:43:44
3	V 292.402†	-672.9	711.1	4.8831 ug/L	4.8831 ppb	18:43:49
3	Zn 213.857†	1771.4	792.9	7.1127 ug/L	7.1127 ppb	18:44:09
3	SiO2†	3716.4	3295.9	215.50 ug/L	215.50 ppb	18:44:24

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864254.3	99.080 %	0.3098			0.31%
Sc Radial	5234.3	98.6 %	2.93			2.98%
Y 371.029	725796.5	98.951 %	0.3218			0.33%
Y RADIAL	5592.3	98.59 %	2.833			2.87%
Ag 328.068†	1125.4	5.0128 ug/L	0.13065	5.0128 ppb	0.13065	2.61%
QC value within limits for Ag 328.068 Recovery = 100.26%						
Al 396.153Radial†	285.4	207.66 ug/L	15.934	207.66 ppb	15.934	7.67%
QC value within limits for Al 396.153Radial Recovery = 103.83%						
As 188.979†	73.0	29.668 ug/L	1.6092	29.668 ppb	1.6092	5.42%
QC value within limits for As 188.979 Recovery = 98.89%						
B 249.677†	2501.4	54.503 ug/L	0.8456	54.503 ppb	0.8456	1.55%
QC value within limits for B 249.677 Recovery = 109.01%						
Ba 233.527†	680.4	5.1309 ug/L	0.02442	5.1309 ppb	0.02442	0.48%
QC value within limits for Ba 233.527 Recovery = 102.62%						
Be 313.107†	13753.2	4.8959 ug/L	0.02524	4.8959 ppb	0.02524	0.52%
QC value within limits for Be 313.107 Recovery = 97.92%						
Ca 317.933Radial†	133.8	203.41 ug/L	4.644	203.41 ppb	4.644	2.28%

QC value within limits for Ca 317.933 Radial Recovery = 101.70%							
Cd 226.502†	495.0	5.2454 ug/L	0.12437	5.2454 ppb	0.12437	2.37%	
QC value within limits for Cd 226.502 Recovery = 104.91%							
Co 228.616†	258.8	5.0884 ug/L	0.24098	5.0884 ppb	0.24098	4.74%	
QC value within limits for Co 228.616 Recovery = 101.77%							
Cr 267.716†	459.9	4.9018 ug/L	0.07707	4.9018 ppb	0.07707	1.57%	
QC value within limits for Cr 267.716 Recovery = 98.04%							
Cu 324.752†	3551.2	10.276 ug/L	0.0210	10.276 ppb	0.0210	0.20%	
QC value within limits for Cu 324.752 Recovery = 102.76%							
Fe 238.204 Radial†	12.3	101.65 ug/L	9.368	101.65 ppb	9.368	9.22%	
QC value within limits for Fe 238.204 Radial Recovery = 101.65%							
K 766.490 Radial†	1004.8	181.79 ug/L	17.565	181.79 ppb	17.565	9.66%	
QC value within limits for K 766.490 Radial Recovery = 121.19%							
Mg 279.077 IEC†	8.1	252.75 ug/L	65.416	252.75 ppb	65.416	25.88%	
QC value within limits for Mg 279.077 IEC Recovery = 84.25%							
Mn 257.610†	9721.0	10.286 ug/L	0.0585	10.286 ppb	0.0585	0.57%	
QC value within limits for Mn 257.610 Recovery = 102.86%							
Mo 202.031†	142.5	9.6329 ug/L	0.49284	9.6329 ppb	0.49284	5.12%	
QC value within limits for Mo 202.031 Recovery = 96.33%							
Na 589.592 Radial†	1165.2	339.55 ug/L	3.321	339.55 ppb	3.321	0.98%	
QC value within limits for Na 589.592 Radial Recovery = 113.18%							
Ni 231.604†	197.0	4.6873 ug/L	0.29599	4.6873 ppb	0.29599	6.31%	
QC value within limits for Ni 231.604 Recovery = 93.75%							
P 214.914†	260.5	147.97 ug/L	4.091	147.97 ppb	4.091	2.76%	
QC value within limits for P 214.914 Recovery = 98.64%							
Pb 220.353†	86.2	10.107 ug/L	0.4324	10.107 ppb	0.4324	4.28%	
QC value within limits for Pb 220.353 Recovery = 101.07%							
S 181.975 Axial†	75.6	100.77 ug/L	2.284	100.77 ppb	2.284	2.27%	
QC value within limits for S 181.975 Axial Recovery = 100.77%							
Sb 206.836†	35.8	12.213 ug/L	1.8861	12.213 ppb	1.8861	15.44%	
QC value within limits for Sb 206.836 Recovery = 122.13%							
Se 196.026†	43.3	26.748 ug/L	4.2281	26.748 ppb	4.2281	15.81%	
QC value within limits for Se 196.026 Recovery = 89.16%							
Si 251.611†	3315.7	101.39 ug/L	1.016	101.39 ppb	1.016	1.00%	
QC value within limits for Si 251.611 Recovery = 101.39%							
Sn 189.927†	68.8	11.569 ug/L	0.5671	11.569 ppb	0.5671	4.90%	
QC value within limits for Sn 189.927 Recovery = 115.69%							
Sr 421.552†	797.5	5.0365 ug/L	0.16664	5.0365 ppb	0.16664	3.31%	
QC value within limits for Sr 421.552 Recovery = 100.73%							
Ti 334.940†	3307.4	5.1157 ug/L	0.07967	5.1157 ppb	0.07967	1.56%	
QC value within limits for Ti 334.940 Recovery = 102.31%							
Tl 190.801†	69.0	20.148 ug/L	2.2786	20.148 ppb	2.2786	11.31%	
QC value within limits for Tl 190.801 Recovery = 100.74%							
U 409.014†	1917.4	54.461 ug/L	4.2235	54.461 ppb	4.2235	7.75%	
QC value within limits for U 409.014 Recovery = 108.92%							
V 292.402†	757.3	5.1724 ug/L	0.35488	5.1724 ppb	0.35488	6.86%	
QC value within limits for V 292.402 Recovery = 103.45%							
Zn 213.857†	785.1	7.0441 ug/L	0.12785	7.0441 ppb	0.12785	1.82%	
QC value within limits for Zn 213.857 Recovery = 70.44%							
SiO2†	3301.3	215.87 ug/L	0.428	215.87 ppb	0.428	0.20%	
QC value within limits for SiO2 Recovery = 101.35%							
All analyte(s) passed QC.							

Sequence No.: 33

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 18:46:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5183.9	5183.9	97.6 %		18:48:26
1	Y RADIAL	5523.7	5523.7	97.38 %		18:48:26
1	Al 396.153Radial†	-3.6	13.1	9.5565 ug/L	9.5565 ppb	18:48:26
1	Ca 317.933Radial†	19.7	-1.4	-2.0901 ug/L	-2.0901 ppb	18:48:46
1	Fe 238.204 Radial†	10.4	0.5	4.3767 ug/L	4.3767 ppb	18:48:46
1	K 766.490 Radial†	2664.8	81.2	14.700 ug/L	14.700 ppb	18:48:26
1	Mg 279.077 IEC†	0.9	-2.3	-70.638 ug/L	-70.638 ppb	18:48:46
1	Na 589.592 Radial†	-1504.2	76.1	22.171 ug/L	22.171 ppb	18:48:26
1	Sr 421.552†	31.6	16.7	0.1053 ug/L	0.1053 ppb	18:48:26
1	Sc 361.383	844152.6	844152.6	96.776 %		18:49:43
1	Y 371.029	711006.3	711006.3	96.935 %		18:49:43
1	Ag 328.068†	322.8	-45.7	-0.2040 ug/L	-0.2040 ppb	18:49:43
1	As 188.979†	-21.6	1.1	0.4548 ug/L	0.4548 ppb	18:50:03
1	B 249.677†	-450.3	171.5	3.7372 ug/L	3.7372 ppb	18:50:03
1	Ba 233.527†	10.6	19.8	0.1478 ug/L	0.1478 ppb	18:50:03
1	Be 313.107†	-4309.3	-128.4	-0.0457 ug/L	-0.0457 ppb	18:49:43
1	Cd 226.502†	-187.8	8.5	0.0894 ug/L	0.0894 ppb	18:50:03
1	Co 228.616†	-73.6	2.4	0.0467 ug/L	0.0467 ppb	18:50:03
1	Cr 267.716†	60.4	-10.8	-0.1162 ug/L	-0.1162 ppb	18:50:03
1	Cu 324.752†	6617.7	292.2	0.8478 ug/L	0.8478 ppb	18:49:43
1	Mn 257.610†	393.6	-73.7	-0.0746 ug/L	-0.0746 ppb	18:50:03
1	Mo 202.031†	20.4	0.5	0.0331 ug/L	0.0331 ppb	18:50:03
1	Ni 231.604†	79.5	-12.0	-0.2868 ug/L	-0.2868 ppb	18:50:03
1	P 214.914†	220.3	16.2	9.1571 ug/L	9.1571 ppb	18:50:03
1	Pb 220.353†	-63.1	2.1	0.2488 ug/L	0.2488 ppb	18:50:03
1	S 181.975 Axial†	50.0	7.1	9.4987 ug/L	9.4987 ppb	18:50:03
1	Sb 206.836†	35.7	7.7	2.5650 ug/L	2.5650 ppb	18:50:03
1	Se 196.026†	-27.1	-3.9	-2.3385 ug/L	-2.3385 ppb	18:50:03
1	Si 251.611†	424.3	-5.0	-0.1538 ug/L	-0.1538 ppb	18:50:03
1	Sn 189.927†	9.5	9.1	1.5181 ug/L	1.5181 ppb	18:50:03
1	Ti 334.940†	-1321.7	-15.3	-0.0182 ug/L	-0.0182 ppb	18:49:43
1	Tl 190.801†	-38.9	-0.7	-0.1951 ug/L	-0.1951 ppb	18:50:03
1	U 409.014†	-2017.9	-7.7	-0.2193 ug/L	-0.2193 ppb	18:49:43
1	V 292.402†	-1427.2	-83.8	-0.5499 ug/L	-0.5499 ppb	18:49:43
1	Zn 213.857†	964.0	-0.6	-0.0056 ug/L	-0.0056 ppb	18:50:03
1	SiO2†	458.0	14.3	0.9374 ug/L	0.9374 ppb	18:50:59
2	Sc Radial	5187.2	5187.2	97.7 %		18:48:51
2	Y RADIAL	5520.9	5520.9	97.33 %		18:48:51
2	Al 396.153Radial†	-6.6	10.0	7.2996 ug/L	7.2996 ppb	18:48:51
2	Ca 317.933Radial†	13.4	-7.9	-11.977 ug/L	-11.977 ppb	18:49:11
2	Fe 238.204 Radial†	9.1	-0.8	-6.7957 ug/L	-6.7957 ppb	18:49:11
2	K 766.490 Radial†	2753.3	170.0	30.792 ug/L	30.792 ppb	18:48:51
2	Mg 279.077 IEC†	-0.3	-3.6	-111.55 ug/L	-111.55 ppb	18:49:11
2	Na 589.592 Radial†	-1511.6	69.5	20.258 ug/L	20.258 ppb	18:48:51
2	Sr 421.552†	-40.4	-57.1	-0.3607 ug/L	-0.3607 ppb	18:48:51
2	Sc 361.383	846456.8	846456.8	97.040 %		18:50:09
2	Y 371.029	712849.6	712849.6	97.186 %		18:50:09
2	Ag 328.068†	259.7	-111.6	-0.4992 ug/L	-0.4992 ppb	18:50:09
2	As 188.979†	-29.7	-7.2	-2.9094 ug/L	-2.9094 ppb	18:50:29
2	B 249.677†	-444.7	178.5	3.8918 ug/L	3.8918 ppb	18:50:29
2	Ba 233.527†	-21.2	-13.0	-0.0977 ug/L	-0.0977 ppb	18:50:29
2	Be 313.107†	-4371.8	-180.7	-0.0641 ug/L	-0.0641 ppb	18:50:09
2	Cd 226.502†	-190.2	6.6	0.0707 ug/L	0.0707 ppb	18:50:29
2	Co 228.616†	-60.7	15.8	0.3100 ug/L	0.3100 ppb	18:50:29
2	Cr 267.716†	59.4	-12.0	-0.1283 ug/L	-0.1283 ppb	18:50:29
2	Cu 324.752†	6529.1	182.3	0.5278 ug/L	0.5278 ppb	18:50:09
2	Mn 257.610†	391.2	-77.2	-0.0778 ug/L	-0.0778 ppb	18:50:29
2	Mo 202.031†	16.8	-3.3	-0.2210 ug/L	-0.2210 ppb	18:50:29
2	Ni 231.604†	82.2	-9.5	-0.2261 ug/L	-0.2261 ppb	18:50:29

2	P 214.914†	226.3	21.7	12.400 ug/L	12.400 ppb	18:50:29
2	Pb 220.353†	-64.0	1.4	0.1683 ug/L	0.1683 ppb	18:50:29
2	S 181.975 Axial†	44.9	1.7	2.3265 ug/L	2.3265 ppb	18:50:29
2	Sb 206.836†	25.5	-2.9	-0.9717 ug/L	-0.9717 ppb	18:50:29
2	Se 196.026†	-30.6	-7.4	-4.5100 ug/L	-4.5100 ppb	18:50:29
2	Si 251.611†	430.0	-0.3	-0.0077 ug/L	-0.0077 ppb	18:50:29
2	Sn 189.927†	3.6	2.9	0.4869 ug/L	0.4869 ppb	18:50:29
2	Ti 334.940†	-1276.2	35.2	0.0618 ug/L	0.0618 ppb	18:50:09
2	Tl 190.801†	-36.9	1.4	0.4150 ug/L	0.4150 ppb	18:50:29
2	U 409.014†	-1986.9	29.9	0.8517 ug/L	0.8517 ppb	18:50:09
2	V 292.402†	-1345.3	4.6	0.0273 ug/L	0.0273 ppb	18:50:09
2	Zn 213.857†	969.2	2.0	0.0194 ug/L	0.0194 ppb	18:50:29
2	SiO2†	436.6	-9.0	-0.5845 ug/L	-0.5845 ppb	18:51:04
3	Sc Radial	5125.8	5125.8	96.5 %		18:49:17
3	Y RADIAL	5484.4	5484.4	96.69 %		18:49:17
3	Al 396.153Radial†	-2.2	14.5	10.521 ug/L	10.521 ppb	18:49:17
3	Ca 317.933Radial†	15.6	-5.4	-8.1369 ug/L	-8.1369 ppb	18:49:37
3	Fe 238.204 Radial†	11.8	2.1	16.942 ug/L	16.942 ppb	18:49:37
3	K 766.490 Radial†	2759.0	209.7	37.983 ug/L	37.983 ppb	18:49:17
3	Mg 279.077 IEC†	2.5	-0.6	-18.146 ug/L	-18.146 ppb	18:49:37
3	Na 589.592 Radial†	-1471.8	92.1	26.853 ug/L	26.853 ppb	18:49:17
3	Sr 421.552†	46.8	32.8	0.2070 ug/L	0.2070 ppb	18:49:17
3	Sc 361.383	839807.1	839807.1	96.278 %		18:50:34
3	Y 371.029	707031.6	707031.6	96.393 %		18:50:34
3	Ag 328.068†	207.3	-164.0	-0.7196 ug/L	-0.7196 ppb	18:50:34
3	As 188.979†	-20.4	2.2	0.9120 ug/L	0.9120 ppb	18:50:54
3	B 249.677†	-458.9	160.1	3.4873 ug/L	3.4873 ppb	18:50:54
3	Ba 233.527†	-12.8	-4.5	-0.0336 ug/L	-0.0336 ppb	18:50:54
3	Be 313.107†	-4431.4	-278.3	-0.0990 ug/L	-0.0990 ppb	18:50:34
3	Cd 226.502†	-164.9	31.3	0.3288 ug/L	0.3288 ppb	18:50:54
3	Co 228.616†	-70.3	5.4	0.1074 ug/L	0.1074 ppb	18:50:54
3	Cr 267.716†	86.9	17.0	0.1844 ug/L	0.1844 ppb	18:50:54
3	Cu 324.752†	6448.1	151.4	0.4433 ug/L	0.4433 ppb	18:50:34
3	Mn 257.610†	373.5	-92.4	-0.0954 ug/L	-0.0954 ppb	18:50:54
3	Mo 202.031†	27.2	7.7	0.5190 ug/L	0.5190 ppb	18:50:54
3	Ni 231.604†	97.1	6.7	0.1583 ug/L	0.1583 ppb	18:50:54
3	P 214.914†	216.4	13.3	7.5525 ug/L	7.5525 ppb	18:50:54
3	Pb 220.353†	-56.2	9.0	1.0528 ug/L	1.0528 ppb	18:50:54
3	S 181.975 Axial†	44.8	2.0	2.6592 ug/L	2.6592 ppb	18:50:54
3	Sb 206.836†	33.0	5.1	1.6900 ug/L	1.6900 ppb	18:50:54
3	Se 196.026†	-23.7	-0.5	-0.2163 ug/L	-0.2163 ppb	18:50:54
3	Si 251.611†	437.6	11.1	0.3335 ug/L	0.3335 ppb	18:50:54
3	Sn 189.927†	3.5	2.8	0.4752 ug/L	0.4752 ppb	18:50:54
3	Ti 334.940†	-1343.1	-44.6	-0.0664 ug/L	-0.0664 ppb	18:50:34
3	Tl 190.801†	-29.9	8.4	2.4393 ug/L	2.4393 ppb	18:50:54
3	U 409.014†	-2196.7	-204.2	-5.8057 ug/L	-5.8057 ppb	18:50:34
3	V 292.402†	-1350.3	-11.5	-0.0821 ug/L	-0.0821 ppb	18:50:34
3	Zn 213.857†	974.7	15.7	0.1386 ug/L	0.1386 ppb	18:50:54
3	SiO2†	459.7	18.5	1.1997 ug/L	1.1997 ppb	18:51:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843472.2	96.698 %		0.3871			0.40%
Sc Radial	5165.6	97.3 %		0.65			0.67%
Y 371.029	710295.8	96.838 %		0.4054			0.42%
Y RADIAL	5509.7	97.13 %		0.386			0.40%
Ag 328.068†	-107.1	-0.4743 ug/L		0.25869	-0.4743 ppb	0.25869	54.54%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	12.5	9.1258 ug/L		1.65353	9.1258 ppb	1.65353	18.12%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.3	-0.5142 ug/L		2.08688	-0.5142 ppb	2.08688	405.85%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	170.0	3.7054 ug/L		0.20408	3.7054 ppb	0.20408	5.51%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.8	0.0055 ug/L		0.12735	0.0055 ppb	0.12735	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-195.8	-0.0696 ug/L		0.02709	-0.0696 ppb	0.02709	38.94%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-4.9	-7.4013 ug/L		4.98435	-7.4013 ppb	4.98435	67.34%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	15.5	0.1630 ug/L	0.14392	0.1630 ppb	0.14392	88.29%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	7.9	0.1547 ug/L	0.13785	0.1547 ppb	0.13785	89.10%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.9	-0.0200 ug/L	0.17718	-0.0200 ppb	0.17718	884.73%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	208.6	0.6063 ug/L	0.21337	0.6063 ppb	0.21337	35.19%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.6	4.8411 ug/L	11.87582	4.8411 ppb	11.87582	245.31%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	153.6	27.825 ug/L	11.9216	27.825 ppb	11.9216	42.84%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.1	-66.778 ug/L	46.8212	-66.778 ppb	46.8212	70.11%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-81.1	-0.0826 ug/L	0.01117	-0.0826 ppb	0.01117	13.52%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.6	0.1104 ug/L	0.37601	0.1104 ppb	0.37601	340.63%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	79.2	23.094 ug/L	3.3928	23.094 ppb	3.3928	14.69%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-5.0	-0.1182 ug/L	0.24139	-0.1182 ppb	0.24139	204.27%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	17.1	9.7033 ug/L	2.46961	9.7033 ppb	2.46961	25.45%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	4.2	0.4899 ug/L	0.48907	0.4899 ppb	0.48907	99.82%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.6	4.8281 ug/L	4.04822	4.8281 ppb	4.04822	83.85%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.3	1.0945 ug/L	1.84201	1.0945 ppb	1.84201	168.30%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.9	-2.3549 ug/L	2.14687	-2.3549 ppb	2.14687	91.17%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	1.9	0.0573 ug/L	0.25007	0.0573 ppb	0.25007	436.18%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.9	0.8267 ug/L	0.59880	0.8267 ppb	0.59880	72.43%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-2.6	-0.0161 ug/L	0.30271	-0.0161 ppb	0.30271	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-8.2	-0.0076 ug/L	0.06475	-0.0076 ppb	0.06475	855.18%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.0	0.8864 ug/L	1.37900	0.8864 ppb	1.37900	155.57%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-60.7	-1.7244 ug/L	3.57482	-1.7244 ppb	3.57482	207.31%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-30.3	-0.2015 ug/L	0.30657	-0.2015 ppb	0.30657	152.12%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	5.7	0.0508 ug/L	0.07704	0.0508 ppb	0.07704	151.65%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	8.0	0.5175 ug/L	0.96336	0.5175 ppb	0.96336	186.15%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 42

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 19:50:29

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	5338.9	5338.9	101 %		19:52:21
1	Y RADIAL	5664.4	5664.4	99.86 %		19:52:21
1	Al 396.153Radial†	6907.7	6887.5	4997.7 ug/L	4997.7 ppb	19:52:21
1	Ca 317.933Radial†	3382.5	3342.8	5080.3 ug/L	5080.3 ppb	19:52:41
1	Fe 238.204 Radial†	638.9	625.4	5170.6 ug/L	5170.6 ppb	19:52:41
1	K 766.490 Radial†	31203.5	28388.3	5135.8 ug/L	5135.8 ppb	19:52:21
1	Mg 279.077 IEC†	169.8	165.6	5177.9 ug/L	5177.9 ppb	19:52:41
1	Na 589.592 Radial†	33946.3	35382.0	10311 ug/L	10311 ppb	19:52:21
1	Sr 421.552†	81781.1	81328.7	513.73 ug/L	513.73 ppb	19:52:21
1	Sc 361.383	888455.8	888455.8	101.85 %		19:53:38
1	Y 371.029	733750.7	733750.7	100.04 %		19:53:38
1	Ag 328.068†	115377.8	112897.5	505.48 ug/L	505.48 ppb	19:53:44
1	As 188.979†	1212.8	1214.1	497.26 ug/L	497.26 ppb	19:54:04
1	B 249.677†	22387.5	22616.5	490.81 ug/L	490.81 ppb	19:53:44
1	Ba 233.527†	67473.5	66253.6	499.50 ug/L	499.50 ppb	19:53:44
1	Be 313.107†	1427279.8	1405612.3	500.30 ug/L	500.30 ppb	19:53:38
1	Cd 226.502†	47641.2	46976.2	497.36 ug/L	497.36 ppb	19:53:44
1	Co 228.616†	25846.5	25454.3	499.46 ug/L	499.46 ppb	19:53:44
1	Cr 267.716†	47250.6	46316.9	495.54 ug/L	495.54 ppb	19:53:44
1	Cu 324.752†	181240.4	171393.9	497.12 ug/L	497.12 ppb	19:53:44
1	Mn 257.610†	482229.5	472967.3	500.75 ug/L	500.75 ppb	19:53:38
1	Mo 202.031†	7484.2	7327.3	495.18 ug/L	495.18 ppb	19:54:04
1	Ni 231.604†	21372.1	20888.7	496.93 ug/L	496.93 ppb	19:53:44
1	P 214.914†	4565.0	4270.3	2361.2 ug/L	2361.2 ppb	19:54:04
1	Pb 220.353†	4241.2	4231.3	495.18 ug/L	495.18 ppb	19:54:04
1	S 181.975 Axial†	804.7	745.5	992.96 ug/L	992.96 ppb	19:54:04
1	Sb 206.836†	1567.8	1510.1	517.12 ug/L	517.12 ppb	19:54:04
1	Se 196.026†	803.5	813.0	513.32 ug/L	513.32 ppb	19:54:04
1	Si 251.611†	83884.3	81913.2	2501.8 ug/L	2501.8 ppb	19:53:44
1	Sn 189.927†	2988.2	2933.0	492.79 ug/L	492.79 ppb	19:54:04
1	Ti 334.940†	320268.9	315787.0	490.13 ug/L	490.13 ppb	19:53:44
1	Tl 190.801†	1695.1	1703.7	499.54 ug/L	499.54 ppb	19:54:04
1	U 409.014†	15808.6	17598.1	498.37 ug/L	498.37 ppb	19:53:44
1	V 292.402†	75824.8	75834.9	502.21 ug/L	502.21 ppb	19:53:44
1	Zn 213.857†	57169.2	55131.4	494.09 ug/L	494.09 ppb	19:53:44
1	SiO2†	83605.2	81623.8	5330.2 ug/L	5330.2 ppb	19:55:11
2	Sc Radial	5241.7	5241.7	98.7 %		19:52:46
2	Y RADIAL	5567.7	5567.7	98.16 %		19:52:46
2	Al 396.153Radial†	6847.1	6953.5	5045.1 ug/L	5045.1 ppb	19:52:46
2	Ca 317.933Radial†	3363.0	3385.4	5145.0 ug/L	5145.0 ppb	19:53:06
2	Fe 238.204 Radial†	633.5	631.6	5222.5 ug/L	5222.5 ppb	19:53:06
2	K 766.490 Radial†	30836.2	28591.4	5172.5 ug/L	5172.5 ppb	19:52:46
2	Mg 279.077 IEC†	172.1	171.2	5350.8 ug/L	5350.8 ppb	19:53:06
2	Na 589.592 Radial†	33333.4	35386.9	10313 ug/L	10313 ppb	19:52:46
2	Sr 421.552†	80548.2	81587.4	515.36 ug/L	515.36 ppb	19:52:46
2	Sc 361.383	866281.9	866281.9	99.313 %		19:54:09
2	Y 371.029	717438.6	717438.6	97.812 %		19:54:09
2	Ag 328.068†	115671.8	116092.9	519.76 ug/L	519.76 ppb	19:54:15
2	As 188.979†	1217.7	1249.6	511.75 ug/L	511.75 ppb	19:54:35
2	B 249.677†	22550.2	23343.1	506.60 ug/L	506.60 ppb	19:54:15
2	Ba 233.527†	67486.9	67962.7	512.39 ug/L	512.39 ppb	19:54:15
2	Be 313.107†	1397786.4	1411783.1	502.52 ug/L	502.52 ppb	19:54:09
2	Cd 226.502†	47689.2	48221.8	510.56 ug/L	510.56 ppb	19:54:15
2	Co 228.616†	25874.5	26132.0	512.76 ug/L	512.76 ppb	19:54:15
2	Cr 267.716†	47466.4	47721.6	510.57 ug/L	510.57 ppb	19:54:15
2	Cu 324.752†	182133.2	176847.5	512.93 ug/L	512.93 ppb	19:54:15
2	Mn 257.610†	471531.6	474314.0	502.17 ug/L	502.17 ppb	19:54:09
2	Mo 202.031†	7502.8	7534.2	509.15 ug/L	509.15 ppb	19:54:35
2	Ni 231.604†	21439.3	21493.4	511.32 ug/L	511.32 ppb	19:54:15

2	P 214.914†	4568.0	4388.1	2426.0 ug/L	2426.0 ppb	19:54:35
2	Pb 220.353†	4265.0	4361.9	510.44 ug/L	510.44 ppb	19:54:35
2	S 181.975 Axial†	807.7	768.7	1023.9 ug/L	1023.9 ppb	19:54:35
2	Sb 206.836†	1548.9	1530.4	524.37 ug/L	524.37 ppb	19:54:35
2	Se 196.026†	818.9	848.7	535.27 ug/L	535.27 ppb	19:54:35
2	Si 251.611†	83969.5	84107.1	2568.8 ug/L	2568.8 ppb	19:54:15
2	Sn 189.927†	3005.1	3025.1	508.25 ug/L	508.25 ppb	19:54:35
2	Ti 334.940†	321221.7	324794.8	504.09 ug/L	504.09 ppb	19:54:15
2	Tl 190.801†	1696.6	1747.8	512.44 ug/L	512.44 ppb	19:54:35
2	U 409.014†	16070.5	18259.1	517.11 ug/L	517.11 ppb	19:54:15
2	V 292.402†	76107.4	78024.9	516.73 ug/L	516.73 ppb	19:54:15
2	Zn 213.857†	57335.4	56735.4	508.47 ug/L	508.47 ppb	19:54:15
2	SiO2†	83596.7	83716.2	5466.8 ug/L	5466.8 ppb	19:55:16
3	Sc Radial	5295.4	5295.4	99.7 %		19:53:11
3	Y RADIAL	5614.4	5614.4	98.98 %		19:53:11
3	Al 396.153Radial†	6878.4	6914.6	5017.1 ug/L	5017.1 ppb	19:53:11
3	Ca 317.933Radial†	3375.4	3363.4	5111.5 ug/L	5111.5 ppb	19:53:31
3	Fe 238.204 Radial†	635.1	626.7	5182.2 ug/L	5182.2 ppb	19:53:31
3	K 766.490 Radial†	30981.0	28419.8	5141.5 ug/L	5141.5 ppb	19:53:11
3	Mg 279.077 IEC†	170.5	167.8	5245.6 ug/L	5245.6 ppb	19:53:31
3	Na 589.592 Radial†	33457.3	35168.7	10249 ug/L	10249 ppb	19:53:11
3	Sr 421.552†	80815.6	81028.0	511.83 ug/L	511.83 ppb	19:53:11
3	Sc 361.383	875752.2	875752.2	100.40 %		19:54:40
3	Y 371.029	724868.1	724868.1	98.825 %		19:54:40
3	Ag 328.068†	116253.4	115412.7	516.72 ug/L	516.72 ppb	19:54:46
3	As 188.979†	1217.8	1236.4	506.36 ug/L	506.36 ppb	19:55:06
3	B 249.677†	22765.8	23312.2	505.95 ug/L	505.95 ppb	19:54:46
3	Ba 233.527†	67952.6	67691.7	510.34 ug/L	510.34 ppb	19:54:46
3	Be 313.107†	1417250.5	1415949.8	503.99 ug/L	503.99 ppb	19:54:40
3	Cd 226.502†	48109.9	48121.5	509.50 ug/L	509.50 ppb	19:54:46
3	Co 228.616†	25974.6	25949.9	509.18 ug/L	509.18 ppb	19:54:46
3	Cr 267.716†	47741.8	47479.0	507.98 ug/L	507.98 ppb	19:54:46
3	Cu 324.752†	182728.5	175457.3	508.91 ug/L	508.91 ppb	19:54:46
3	Mn 257.610†	477841.8	475464.8	503.39 ug/L	503.39 ppb	19:54:40
3	Mo 202.031†	7498.1	7447.8	503.31 ug/L	503.31 ppb	19:55:06
3	Ni 231.604†	21587.7	21407.8	509.28 ug/L	509.28 ppb	19:54:46
3	P 214.914†	4571.2	4341.6	2399.9 ug/L	2399.9 ppb	19:55:06
3	Pb 220.353†	4235.1	4285.6	501.53 ug/L	501.53 ppb	19:55:06
3	S 181.975 Axial†	800.4	752.7	1002.6 ug/L	1002.6 ppb	19:55:06
3	Sb 206.836†	1557.2	1521.8	521.34 ug/L	521.34 ppb	19:55:06
3	Se 196.026†	805.4	826.4	521.54 ug/L	521.54 ppb	19:55:06
3	Si 251.611†	84547.6	83768.5	2558.5 ug/L	2558.5 ppb	19:54:46
3	Sn 189.927†	3002.8	2990.2	502.38 ug/L	502.38 ppb	19:55:06
3	Ti 334.940†	322837.7	322906.6	501.17 ug/L	501.17 ppb	19:54:46
3	Tl 190.801†	1698.6	1731.4	507.65 ug/L	507.65 ppb	19:55:06
3	U 409.014†	15855.7	17870.2	506.07 ug/L	506.07 ppb	19:54:46
3	V 292.402†	76634.4	77721.1	514.65 ug/L	514.65 ppb	19:54:46
3	Zn 213.857†	57721.2	56495.3	506.32 ug/L	506.32 ppb	19:54:46
3	SiO2†	83014.4	82226.0	5369.4 ug/L	5369.4 ppb	19:55:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	876830.0	100.52 %	1.276			1.27%
Sc Radial	5292.0	99.7 %	0.92			0.92%
Y 371.029	725352.5	98.891 %	1.1134			1.13%
Y RADIAL	5615.5	99.00 %	0.853			0.86%
Ag 328.068†	114801.0	513.99 ug/L	7.520	513.99 ppb	7.520	1.46%
QC value within limits for Ag 328.068 Recovery = 102.80%						
Al 396.153Radial†	6918.5	5020.0 ug/L	23.83	5020.0 ppb	23.83	0.47%
QC value within limits for Al 396.153Radial Recovery = 100.40%						
As 188.979†	1233.4	505.12 ug/L	7.325	505.12 ppb	7.325	1.45%
QC value within limits for As 188.979 Recovery = 101.02%						
B 249.677†	23090.6	501.12 ug/L	8.935	501.12 ppb	8.935	1.78%
QC value within limits for B 249.677 Recovery = 100.22%						
Ba 233.527†	67302.7	507.41 ug/L	6.926	507.41 ppb	6.926	1.36%
QC value within limits for Ba 233.527 Recovery = 101.48%						
Be 313.107†	1411115.1	502.27 ug/L	1.861	502.27 ppb	1.861	0.37%
QC value within limits for Be 313.107 Recovery = 100.45%						
Ca 317.933Radial†	3363.9	5112.3 ug/L	32.37	5112.3 ppb	32.37	0.63%

QC value within limits for Ca 317.933 Radial Recovery = 102.25%							
Cd 226.502†	47773.2	505.80 ug/L	7.333	505.80 ppb	7.333	1.45%	
QC value within limits for Cd 226.502 Recovery = 101.16%							
Co 228.616†	25845.4	507.13 ug/L	6.881	507.13 ppb	6.881	1.36%	
QC value within limits for Co 228.616 Recovery = 101.43%							
Cr 267.716†	47172.5	504.70 ug/L	8.032	504.70 ppb	8.032	1.59%	
QC value within limits for Cr 267.716 Recovery = 100.94%							
Cu 324.752†	174566.2	506.32 ug/L	8.216	506.32 ppb	8.216	1.62%	
QC value within limits for Cu 324.752 Recovery = 101.26%							
Fe 238.204 Radial†	627.9	5191.8 ug/L	27.22	5191.8 ppb	27.22	0.52%	
QC value within limits for Fe 238.204 Radial Recovery = 103.84%							
K 766.490 Radial†	28466.5	5149.9 ug/L	19.77	5149.9 ppb	19.77	0.38%	
QC value within limits for K 766.490 Radial Recovery = 103.00%							
Mg 279.077 IEC†	168.2	5258.1 ug/L	87.09	5258.1 ppb	87.09	1.66%	
QC value within limits for Mg 279.077 IEC Recovery = 105.16%							
Mn 257.610†	474248.7	502.10 ug/L	1.322	502.10 ppb	1.322	0.26%	
QC value within limits for Mn 257.610 Recovery = 100.42%							
Mo 202.031†	7436.4	502.54 ug/L	7.017	502.54 ppb	7.017	1.40%	
QC value within limits for Mo 202.031 Recovery = 100.51%							
Na 589.592 Radial†	35312.6	10291 ug/L	36.3	10291 ppb	36.3	0.35%	
QC value within limits for Na 589.592 Radial Recovery = 102.91%							
Ni 231.604†	21263.3	505.84 ug/L	7.786	505.84 ppb	7.786	1.54%	
QC value within limits for Ni 231.604 Recovery = 101.17%							
P 214.914†	4333.3	2395.7 ug/L	32.60	2395.7 ppb	32.60	1.36%	
QC value within limits for P 214.914 Recovery = 95.83%							
Pb 220.353†	4292.9	502.38 ug/L	7.667	502.38 ppb	7.667	1.53%	
QC value within limits for Pb 220.353 Recovery = 100.48%							
S 181.975 Axial†	755.6	1006.5 ug/L	15.84	1006.5 ppb	15.84	1.57%	
QC value within limits for S 181.975 Axial Recovery = 100.65%							
Sb 206.836†	1520.8	520.94 ug/L	3.640	520.94 ppb	3.640	0.70%	
QC value within limits for Sb 206.836 Recovery = 104.19%							
Se 196.026†	829.3	523.38 ug/L	11.085	523.38 ppb	11.085	2.12%	
QC value within limits for Se 196.026 Recovery = 104.68%							
Si 251.611†	83262.9	2543.0 ug/L	36.08	2543.0 ppb	36.08	1.42%	
QC value within limits for Si 251.611 Recovery = 101.72%							
Sn 189.927†	2982.8	501.14 ug/L	7.801	501.14 ppb	7.801	1.56%	
QC value within limits for Sn 189.927 Recovery = 100.23%							
Sr 421.552†	81314.7	513.64 ug/L	1.769	513.64 ppb	1.769	0.34%	
QC value within limits for Sr 421.552 Recovery = 102.73%							
Ti 334.940†	321162.8	498.46 ug/L	7.366	498.46 ppb	7.366	1.48%	
QC value within limits for Ti 334.940 Recovery = 99.69%							
Tl 190.801†	1727.6	506.54 ug/L	6.522	506.54 ppb	6.522	1.29%	
QC value within limits for Tl 190.801 Recovery = 101.31%							
U 409.014†	17909.1	507.19 ug/L	9.420	507.19 ppb	9.420	1.86%	
QC value within limits for U 409.014 Recovery = 101.44%							
V 292.402†	77193.6	511.20 ug/L	7.853	511.20 ppb	7.853	1.54%	
QC value within limits for V 292.402 Recovery = 102.24%							
Zn 213.857†	56120.7	502.96 ug/L	7.759	502.96 ppb	7.759	1.54%	
QC value within limits for Zn 213.857 Recovery = 100.59%							
SiO2†	82522.0	5388.8 ug/L	70.34	5388.8 ppb	70.34	1.31%	
QC value within limits for SiO2 Recovery = 100.77%							
All analyte(s) passed QC.							

Sequence No.: 43

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 19:57:31

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	5338.9	5338.9	101 %		19:59:23
1	Y RADIAL	5703.6	5703.6	100.6 %		19:59:23
1	Al 396.153Radial†	2.8	19.5	14.218 ug/L	14.218 ppb	19:59:23
1	Ca 317.933Radial†	20.0	-1.7	-2.5650 ug/L	-2.5650 ppb	19:59:43
1	Fe 238.204 Radial†	9.2	-1.1	-8.8012 ug/L	-8.8012 ppb	19:59:43
1	K 766.490 Radial†	3010.4	345.6	62.592 ug/L	62.592 ppb	19:59:23
1	Mg 279.077 IEC†	1.4	-1.8	-56.623 ug/L	-56.623 ppb	19:59:43
1	Na 589.592 Radial†	-1484.4	140.5	40.947 ug/L	40.947 ppb	19:59:23
1	Sr 421.552†	20.3	4.5	0.0283 ug/L	0.0283 ppb	19:59:23
1	Sc 361.383	858516.5	858516.5	98.423 %		20:00:40
1	Y 371.029	721928.7	721928.7	98.424 %		20:00:40
1	Ag 328.068†	311.1	-63.2	-0.2831 ug/L	-0.2831 ppb	20:00:40
1	As 188.979†	-20.8	2.3	0.9350 ug/L	0.9350 ppb	20:01:00
1	B 249.677†	-427.4	202.5	4.4170 ug/L	4.4170 ppb	20:01:00
1	Ba 233.527†	-6.8	1.9	0.0136 ug/L	0.0136 ppb	20:01:00
1	Be 313.107†	-4264.1	-8.0	-0.0029 ug/L	-0.0029 ppb	20:00:40
1	Cd 226.502†	-184.7	15.0	0.1589 ug/L	0.1589 ppb	20:01:00
1	Co 228.616†	-76.6	0.6	0.0117 ug/L	0.0117 ppb	20:01:00
1	Cr 267.716†	71.4	-0.6	-0.0065 ug/L	-0.0065 ppb	20:01:00
1	Cu 324.752†	6539.7	98.5	0.2863 ug/L	0.2863 ppb	20:00:40
1	Mn 257.610†	440.3	-33.0	-0.0335 ug/L	-0.0335 ppb	20:01:00
1	Mo 202.031†	19.9	-0.4	-0.0265 ug/L	-0.0265 ppb	20:01:00
1	Ni 231.604†	90.4	-2.4	-0.0563 ug/L	-0.0563 ppb	20:01:00
1	P 214.914†	223.6	15.7	9.0122 ug/L	9.0122 ppb	20:01:00
1	Pb 220.353†	-70.9	-4.7	-0.5401 ug/L	-0.5401 ppb	20:01:00
1	S 181.975 Axial†	46.0	2.2	2.9238 ug/L	2.9238 ppb	20:01:00
1	Sb 206.836†	41.2	12.7	4.2014 ug/L	4.2014 ppb	20:01:00
1	Se 196.026†	-29.2	-5.5	-3.3843 ug/L	-3.3843 ppb	20:01:00
1	Si 251.611†	470.5	34.6	1.0588 ug/L	1.0588 ppb	20:01:00
1	Sn 189.927†	7.2	6.5	1.0916 ug/L	1.0916 ppb	20:01:00
1	Ti 334.940†	-1357.2	-28.5	-0.0393 ug/L	-0.0393 ppb	20:00:40
1	Tl 190.801†	-31.6	7.3	2.1397 ug/L	2.1397 ppb	20:01:00
1	U 409.014†	-2101.7	-58.0	-1.6468 ug/L	-1.6468 ppb	20:00:40
1	V 292.402†	-1389.2	-20.6	-0.1376 ug/L	-0.1376 ppb	20:00:40
1	Zn 213.857†	951.5	-30.0	-0.2704 ug/L	-0.2704 ppb	20:01:00
1	SiO2†	474.7	23.4	1.5358 ug/L	1.5358 ppb	20:01:56
2	Sc Radial	5293.6	5293.6	99.7 %		19:59:48
2	Y RADIAL	5642.3	5642.3	99.47 %		19:59:48
2	Al 396.153Radial†	-3.0	13.7	9.9849 ug/L	9.9849 ppb	19:59:48
2	Ca 317.933Radial†	18.2	-3.3	-4.9744 ug/L	-4.9744 ppb	20:00:08
2	Fe 238.204 Radial†	9.7	-0.4	-3.5307 ug/L	-3.5307 ppb	20:00:08
2	K 766.490 Radial†	2929.6	290.3	52.577 ug/L	52.577 ppb	19:59:48
2	Mg 279.077 IEC†	1.9	-1.3	-39.854 ug/L	-39.854 ppb	20:00:08
2	Na 589.592 Radial†	-1566.1	45.9	13.368 ug/L	13.368 ppb	19:59:48
2	Sr 421.552†	17.3	1.6	0.0102 ug/L	0.0102 ppb	19:59:48
2	Sc 361.383	867052.3	867052.3	99.401 %		20:01:05
2	Y 371.029	730445.6	730445.6	99.585 %		20:01:05
2	Ag 328.068†	349.2	-27.9	-0.1248 ug/L	-0.1248 ppb	20:01:05
2	As 188.979†	-27.3	-4.0	-1.6263 ug/L	-1.6263 ppb	20:01:25
2	B 249.677†	-438.9	195.2	4.2558 ug/L	4.2558 ppb	20:01:25
2	Ba 233.527†	-9.8	-1.0	-0.0065 ug/L	-0.0065 ppb	20:01:25
2	Be 313.107†	-4352.9	-54.7	-0.0190 ug/L	-0.0190 ppb	20:01:05
2	Cd 226.502†	-200.5	0.9	0.0103 ug/L	0.0103 ppb	20:01:25
2	Co 228.616†	-66.6	11.4	0.2232 ug/L	0.2232 ppb	20:01:25
2	Cr 267.716†	109.7	37.2	0.3973 ug/L	0.3973 ppb	20:01:25
2	Cu 324.752†	6555.1	48.5	0.1397 ug/L	0.1397 ppb	20:01:05
2	Mn 257.610†	431.5	-46.3	-0.0477 ug/L	-0.0477 ppb	20:01:25
2	Mo 202.031†	22.7	2.3	0.1568 ug/L	0.1568 ppb	20:01:25
2	Ni 231.604†	89.2	-4.5	-0.1069 ug/L	-0.1069 ppb	20:01:25

2	P 214.914†	205.8	-4.4	-2.5659 ug/L	-2.5659 ppb	20:01:25
2	Pb 220.353†	-59.4	7.5	0.8830 ug/L	0.8830 ppb	20:01:25
2	S 181.975 Axial†	45.2	1.0	1.3128 ug/L	1.3128 ppb	20:01:25
2	Sb 206.836†	32.6	3.5	1.1845 ug/L	1.1845 ppb	20:01:25
2	Se 196.026†	-29.1	-5.2	-3.1591 ug/L	-3.1591 ppb	20:01:25
2	Si 251.611†	479.4	38.8	1.1859 ug/L	1.1859 ppb	20:01:25
2	Sn 189.927†	5.9	5.2	0.8673 ug/L	0.8673 ppb	20:01:25
2	Ti 334.940†	-1223.4	119.6	0.1874 ug/L	0.1874 ppb	20:01:05
2	Tl 190.801†	-29.2	10.1	2.9499 ug/L	2.9499 ppb	20:01:25
2	U 409.014†	-2010.9	54.4	1.5440 ug/L	1.5440 ppb	20:01:05
2	V 292.402†	-1317.1	65.9	0.4351 ug/L	0.4351 ppb	20:01:05
2	Zn 213.857†	973.8	-17.1	-0.1538 ug/L	-0.1538 ppb	20:01:25
2	SiO2†	493.2	37.2	2.4333 ug/L	2.4333 ppb	20:02:01
3	Sc Radial	5313.8	5313.8	100 %		20:00:13
3	Y RADIAL	5673.0	5673.0	100.0 %		20:00:13
3	Al 396.153Radial†	3.4	20.1	14.685 ug/L	14.685 ppb	20:00:13
3	Ca 317.933Radial†	15.5	-6.1	-9.2569 ug/L	-9.2569 ppb	20:00:33
3	Fe 238.204 Radial†	8.7	-1.4	-11.923 ug/L	-11.923 ppb	20:00:33
3	K 766.490 Radial†	2979.9	329.4	59.657 ug/L	59.657 ppb	20:00:13
3	Mg 279.077 IEC†	2.6	-0.6	-19.740 ug/L	-19.740 ppb	20:00:33
3	Na 589.592 Radial†	-1542.4	75.6	22.035 ug/L	22.035 ppb	20:00:13
3	Sr 421.552†	10.8	-4.9	-0.0309 ug/L	-0.0309 ppb	20:00:13
3	Sc 361.383	860824.5	860824.5	98.687 %		20:01:30
3	Y 371.029	723824.1	723824.1	98.682 %		20:01:30
3	Ag 328.068†	390.2	16.2	0.0657 ug/L	0.0657 ppb	20:01:30
3	As 188.979†	-23.1	0.0	0.0122 ug/L	0.0122 ppb	20:01:50
3	B 249.677†	-445.4	185.4	4.0440 ug/L	4.0440 ppb	20:01:50
3	Ba 233.527†	-7.2	1.5	0.0093 ug/L	0.0093 ppb	20:01:50
3	Be 313.107†	-4403.5	-137.6	-0.0488 ug/L	-0.0488 ppb	20:01:30
3	Cd 226.502†	-195.2	4.8	0.0518 ug/L	0.0518 ppb	20:01:50
3	Co 228.616†	-74.1	3.4	0.0662 ug/L	0.0662 ppb	20:01:50
3	Cr 267.716†	90.8	18.8	0.2001 ug/L	0.2001 ppb	20:01:50
3	Cu 324.752†	6605.0	146.8	0.4257 ug/L	0.4257 ppb	20:01:30
3	Mn 257.610†	427.7	-47.0	-0.0501 ug/L	-0.0501 ppb	20:01:50
3	Mo 202.031†	21.8	1.6	0.1047 ug/L	0.1047 ppb	20:01:50
3	Ni 231.604†	81.9	-11.2	-0.2663 ug/L	-0.2663 ppb	20:01:50
3	P 214.914†	207.7	-1.0	-0.6296 ug/L	-0.6296 ppb	20:01:50
3	Pb 220.353†	-71.3	-4.9	-0.5683 ug/L	-0.5683 ppb	20:01:50
3	S 181.975 Axial†	49.0	5.2	6.8679 ug/L	6.8679 ppb	20:01:50
3	Sb 206.836†	34.5	5.7	1.9197 ug/L	1.9197 ppb	20:01:50
3	Se 196.026†	-33.4	-9.7	-5.9163 ug/L	-5.9163 ppb	20:01:50
3	Si 251.611†	458.9	21.5	0.6573 ug/L	0.6573 ppb	20:01:50
3	Sn 189.927†	9.3	8.6	1.4486 ug/L	1.4486 ppb	20:01:50
3	Ti 334.940†	-1319.8	13.1	0.0209 ug/L	0.0209 ppb	20:01:30
3	Tl 190.801†	-30.7	8.4	2.4379 ug/L	2.4379 ppb	20:01:50
3	U 409.014†	-2077.5	-27.8	-0.7877 ug/L	-0.7877 ppb	20:01:30
3	V 292.402†	-1490.6	-119.5	-0.7795 ug/L	-0.7795 ppb	20:01:30
3	Zn 213.857†	966.5	-17.4	-0.1548 ug/L	-0.1548 ppb	20:01:50
3	SiO2†	481.9	29.4	1.9204 ug/L	1.9204 ppb	20:02:06

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862131.1	98.837 %	0.5062			0.51%
Sc Radial	5315.4	100 %	0.4			0.43%
Y 371.029	725399.5	98.897 %	0.6096			0.62%
Y RADIAL	5673.0	100.0 %	0.54			0.54%
Ag 328.068†	-25.0	-0.1141 ug/L	0.17462	-0.1141 ppb	0.17462	153.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.8	12.962 ug/L	2.5893	12.962 ppb	2.5893	19.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.6	-0.2264 ug/L	1.29721	-0.2264 ppb	1.29721	573.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	194.4	4.2389 ug/L	0.18705	4.2389 ppb	0.18705	4.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.8	0.0055 ug/L	0.01062	0.0055 ppb	0.01062	193.95%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-66.8	-0.0236 ug/L	0.02329	-0.0236 ppb	0.02329	98.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.7	-5.5988 ug/L	3.38934	-5.5988 ppb	3.38934	60.54%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	6.9	0.0737 ug/L	0.07668	0.0737 ppb	0.07668	104.07%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.1	0.1004 ug/L	0.10979	0.1004 ppb	0.10979	109.37%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	18.5	0.1970 ug/L	0.20192	0.1970 ppb	0.20192	102.51%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	98.0	0.2839 ug/L	0.14299	0.2839 ppb	0.14299	50.37%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.0	-8.0850 ug/L	4.24179	-8.0850 ppb	4.24179	52.46%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	321.8	58.275 ug/L	5.1488	58.275 ppb	5.1488	8.84%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.2	-38.739 ug/L	18.4668	-38.739 ppb	18.4668	47.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-42.1	-0.0438 ug/L	0.00895	-0.0438 ppb	0.00895	20.46%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.2	0.0784 ug/L	0.09443	0.0784 ppb	0.09443	120.52%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	87.3	25.450 ug/L	14.1032	25.450 ppb	14.1032	55.42%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-6.0	-0.1432 ug/L	0.10959	-0.1432 ppb	0.10959	76.54%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	3.4	1.9389 ug/L	6.20171	1.9389 ppb	6.20171	319.85%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-0.7	-0.0751 ug/L	0.82991	-0.0751 ppb	0.82991	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.8	3.7015 ug/L	2.85803	3.7015 ppb	2.85803	77.21%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.3	2.4352 ug/L	1.57314	2.4352 ppb	1.57314	64.60%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-6.8	-4.1533 ug/L	1.53103	-4.1533 ppb	1.53103	36.86%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	31.6	0.9673 ug/L	0.27591	0.9673 ppb	0.27591	28.52%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.8	1.1359 ug/L	0.29317	1.1359 ppb	0.29317	25.81%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	0.4	0.0025 ug/L	0.03036	0.0025 ppb	0.03036	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	34.7	0.0563 ug/L	0.11742	0.0563 ppb	0.11742	208.44%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	8.6	2.5092 ug/L	0.40974	2.5092 ppb	0.40974	16.33%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-10.5	-0.2968 ug/L	1.65107	-0.2968 ppb	1.65107	556.25%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-24.7	-0.1607 ug/L	0.60762	-0.1607 ppb	0.60762	378.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-21.5	-0.1930 ug/L	0.06702	-0.1930 ppb	0.06702	34.73%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	30.0	1.9631 ug/L	0.45030	1.9631 ppb	0.45030	22.94%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 51

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 20:52:01

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	5283.6	5283.6	99.5 %		20:53:53
1	Y RADIAL	5608.1	5608.1	98.87 %		20:53:53
1	Al 396.153Radial†	6911.0	6962.7	5052.0 ug/L	5052.0 ppb	20:53:53
1	Ca 317.933Radial†	3378.5	3374.0	5127.7 ug/L	5127.7 ppb	20:54:13
1	Fe 238.204 Radial†	638.6	631.6	5222.4 ug/L	5222.4 ppb	20:54:13
1	K 766.490 Radial†	30951.6	28459.5	5148.6 ug/L	5148.6 ppb	20:53:53
1	Mg 279.077 IEC†	170.2	167.8	5246.2 ug/L	5246.2 ppb	20:54:13
1	Na 589.592 Radial†	34052.6	35841.9	10445 ug/L	10445 ppb	20:53:53
1	Sr 421.552†	81541.0	81937.9	517.58 ug/L	517.58 ppb	20:53:53
1	Sc 361.383	867171.6	867171.6	99.415 %		20:55:11
1	Y 371.029	717662.0	717662.0	97.842 %		20:55:11
1	Ag 328.068†	113734.7	114025.0	510.54 ug/L	510.54 ppb	20:55:16
1	As 188.979†	1221.0	1251.7	512.51 ug/L	512.51 ppb	20:55:36
1	B 249.677†	22279.0	23047.0	500.17 ug/L	500.17 ppb	20:55:16
1	Ba 233.527†	66535.9	66936.4	504.65 ug/L	504.65 ppb	20:55:16
1	Be 313.107†	1407544.0	1420154.1	505.47 ug/L	505.47 ppb	20:55:11
1	Cd 226.502†	46924.6	47403.4	501.88 ug/L	501.88 ppb	20:55:16
1	Co 228.616†	25502.7	25731.2	504.91 ug/L	504.91 ppb	20:55:16
1	Cr 267.716†	46772.7	46974.8	502.59 ug/L	502.59 ppb	20:55:16
1	Cu 324.752†	178946.1	173453.5	503.10 ug/L	503.10 ppb	20:55:16
1	Mn 257.610†	473962.1	476271.8	504.25 ug/L	504.25 ppb	20:55:11
1	Mo 202.031†	7476.6	7500.0	506.84 ug/L	506.84 ppb	20:55:36
1	Ni 231.604†	21159.6	21190.0	504.10 ug/L	504.10 ppb	20:55:16
1	P 214.914†	4557.9	4373.2	2419.3 ug/L	2419.3 ppb	20:55:36
1	Pb 220.353†	4240.0	4332.3	506.98 ug/L	506.98 ppb	20:55:36
1	S 181.975 Axial†	809.1	769.3	1024.7 ug/L	1024.7 ppb	20:55:36
1	Sb 206.836†	1541.6	1521.4	521.36 ug/L	521.36 ppb	20:55:36
1	Se 196.026†	810.5	839.4	529.65 ug/L	529.65 ppb	20:55:36
1	Si 251.611†	82861.9	82906.2	2532.0 ug/L	2532.0 ppb	20:55:16
1	Sn 189.927†	3009.6	3026.5	508.48 ug/L	508.48 ppb	20:55:36
1	Ti 334.940†	315461.7	318669.1	494.60 ug/L	494.60 ppb	20:55:16
1	Tl 190.801†	1696.5	1746.0	511.88 ug/L	511.88 ppb	20:55:36
1	U 409.014†	15286.9	17454.3	494.26 ug/L	494.26 ppb	20:55:16
1	V 292.402†	74891.7	76723.5	508.16 ug/L	508.16 ppb	20:55:16
1	Zn 213.857†	56490.0	55825.8	500.31 ug/L	500.31 ppb	20:55:16
1	SiO2†	83294.9	83326.4	5441.4 ug/L	5441.4 ppb	20:56:43
2	Sc Radial	5202.4	5202.4	98.0 %		20:54:18
2	Y RADIAL	5500.1	5500.1	96.96 %		20:54:18
2	Al 396.153Radial†	6872.8	7032.2	5102.9 ug/L	5102.9 ppb	20:54:18
2	Ca 317.933Radial†	3363.3	3411.5	5184.7 ug/L	5184.7 ppb	20:54:38
2	Fe 238.204 Radial†	634.8	637.8	5272.8 ug/L	5272.8 ppb	20:54:38
2	K 766.490 Radial†	30778.0	28768.1	5204.5 ug/L	5204.5 ppb	20:54:18
2	Mg 279.077 IEC†	169.9	170.2	5321.1 ug/L	5321.1 ppb	20:54:38
2	Na 589.592 Radial†	33831.8	36150.9	10535 ug/L	10535 ppb	20:54:18
2	Sr 421.552†	81250.3	82920.8	523.79 ug/L	523.79 ppb	20:54:18
2	Sc 361.383	873653.9	873653.9	100.16 %		20:55:42
2	Y 371.029	722488.0	722488.0	98.500 %		20:55:42
2	Ag 328.068†	113493.5	112935.3	505.69 ug/L	505.69 ppb	20:55:47
2	As 188.979†	1214.3	1235.8	506.07 ug/L	506.07 ppb	20:56:07
2	B 249.677†	22353.3	22954.8	498.17 ug/L	498.17 ppb	20:55:47
2	Ba 233.527†	66477.0	66381.0	500.47 ug/L	500.47 ppb	20:55:47
2	Be 313.107†	1412829.7	1414926.3	503.61 ug/L	503.61 ppb	20:55:42
2	Cd 226.502†	47124.2	47252.5	500.28 ug/L	500.28 ppb	20:55:47
2	Co 228.616†	25460.9	25499.2	500.36 ug/L	500.36 ppb	20:55:47
2	Cr 267.716†	46884.6	46737.5	500.04 ug/L	500.04 ppb	20:55:47
2	Cu 324.752†	178185.0	171358.0	497.03 ug/L	497.03 ppb	20:55:47
2	Mn 257.610†	475474.2	474244.0	502.10 ug/L	502.10 ppb	20:55:42
2	Mo 202.031†	7460.8	7428.4	502.01 ug/L	502.01 ppb	20:56:07
2	Ni 231.604†	21198.8	21071.2	501.27 ug/L	501.27 ppb	20:55:47

2	P 214.914†	4553.7	4335.1	2398.5 ug/L	2398.5 ppb	20:56:07
2	Pb 220.353†	4227.0	4287.7	501.78 ug/L	501.78 ppb	20:56:07
2	S 181.975 Axial†	800.2	754.4	1004.8 ug/L	1004.8 ppb	20:56:07
2	Sb 206.836†	1536.1	1504.4	515.53 ug/L	515.53 ppb	20:56:07
2	Se 196.026†	807.1	830.0	524.05 ug/L	524.05 ppb	20:56:07
2	Si 251.611†	82737.3	82163.4	2509.4 ug/L	2509.4 ppb	20:55:47
2	Sn 189.927†	2985.9	2980.4	500.75 ug/L	500.75 ppb	20:56:07
2	Ti 334.940†	314994.5	315848.1	490.22 ug/L	490.22 ppb	20:55:47
2	Tl 190.801†	1697.4	1734.2	508.44 ug/L	508.44 ppb	20:56:07
2	U 409.014†	15491.5	17544.4	496.82 ug/L	496.82 ppb	20:55:47
2	V 292.402†	74821.4	76094.3	503.99 ug/L	503.99 ppb	20:55:47
2	Zn 213.857†	56621.5	55535.5	497.71 ug/L	497.71 ppb	20:55:47
2	SiO2†	83657.1	83066.3	5424.5 ug/L	5424.5 ppb	20:56:48
3	Sc Radial	5281.3	5281.3	99.5 %		20:54:43
3	Y RADIAL	5576.9	5576.9	98.32 %		20:54:43
3	Al 396.153Radial†	6911.6	6966.3	5054.6 ug/L	5054.6 ppb	20:54:43
3	Ca 317.933Radial†	3360.8	3357.7	5102.8 ug/L	5102.8 ppb	20:55:03
3	Fe 238.204 Radial†	627.7	621.0	5134.6 ug/L	5134.6 ppb	20:55:03
3	K 766.490 Radial†	31082.9	28605.0	5175.0 ug/L	5175.0 ppb	20:54:43
3	Mg 279.077 IEC†	172.7	170.4	5327.9 ug/L	5327.9 ppb	20:55:03
3	Na 589.592 Radial†	34035.5	35839.5	10444 ug/L	10444 ppb	20:54:43
3	Sr 421.552†	81354.6	81785.7	516.62 ug/L	516.62 ppb	20:54:43
3	Sc 361.383	870860.0	870860.0	99.838 %		20:56:13
3	Y 371.029	720098.5	720098.5	98.174 %		20:56:13
3	Ag 328.068†	115124.7	114932.7	514.56 ug/L	514.56 ppb	20:56:18
3	As 188.979†	1225.1	1250.6	512.08 ug/L	512.08 ppb	20:56:38
3	B 249.677†	22783.4	23457.2	509.12 ug/L	509.12 ppb	20:56:18
3	Ba 233.527†	67395.8	67514.2	509.00 ug/L	509.00 ppb	20:56:18
3	Be 313.107†	1408452.5	1415067.5	503.68 ug/L	503.68 ppb	20:56:13
3	Cd 226.502†	47712.3	47992.5	508.13 ug/L	508.13 ppb	20:56:18
3	Co 228.616†	25841.5	25961.9	509.43 ug/L	509.43 ppb	20:56:18
3	Cr 267.716†	47342.9	47346.7	506.56 ug/L	506.56 ppb	20:56:18
3	Cu 324.752†	180928.1	174676.3	506.64 ug/L	506.64 ppb	20:56:18
3	Mn 257.610†	474876.3	475168.2	503.07 ug/L	503.07 ppb	20:56:13
3	Mo 202.031†	7509.5	7501.1	506.91 ug/L	506.91 ppb	20:56:38
3	Ni 231.604†	21431.5	21372.1	508.43 ug/L	508.43 ppb	20:56:18
3	P 214.914†	4585.3	4381.3	2423.3 ug/L	2423.3 ppb	20:56:38
3	Pb 220.353†	4261.3	4335.5	507.37 ug/L	507.37 ppb	20:56:38
3	S 181.975 Axial†	809.0	765.8	1020.0 ug/L	1020.0 ppb	20:56:38
3	Sb 206.836†	1542.6	1515.9	519.51 ug/L	519.51 ppb	20:56:38
3	Se 196.026†	802.4	827.9	522.32 ug/L	522.32 ppb	20:56:38
3	Si 251.611†	83939.6	83632.6	2554.3 ug/L	2554.3 ppb	20:56:18
3	Sn 189.927†	3016.0	3020.2	507.41 ug/L	507.41 ppb	20:56:38
3	Ti 334.940†	319469.9	321339.8	498.73 ug/L	498.73 ppb	20:56:18
3	Tl 190.801†	1694.3	1736.5	509.14 ug/L	509.14 ppb	20:56:38
3	U 409.014†	15582.1	17684.8	500.82 ug/L	500.82 ppb	20:56:18
3	V 292.402†	75841.9	77356.2	512.32 ug/L	512.32 ppb	20:56:18
3	Zn 213.857†	57392.0	56488.6	506.28 ug/L	506.28 ppb	20:56:18
3	SiO2†	84149.4	83827.4	5474.2 ug/L	5474.2 ppb	20:56:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870561.8	99.803 %	0.3728			0.37%
Sc Radial	5255.8	99.0 %	0.87			0.88%
Y 371.029	720082.8	98.172 %	0.3290			0.34%
Y RADIAL	5561.7	98.05 %	0.980			1.00%
Ag 328.068†	113964.3	510.27 ug/L	4.443	510.27 ppb	4.443	0.87%
QC value within limits for Ag 328.068 Recovery = 102.05%						
Al 396.153Radial†	6987.1	5069.8 ug/L	28.67	5069.8 ppb	28.67	0.57%
QC value within limits for Al 396.153Radial Recovery = 101.40%						
As 188.979†	1246.0	510.22 ug/L	3.600	510.22 ppb	3.600	0.71%
QC value within limits for As 188.979 Recovery = 102.04%						
B 249.677†	23153.0	502.48 ug/L	5.830	502.48 ppb	5.830	1.16%
QC value within limits for B 249.677 Recovery = 100.50%						
Ba 233.527†	66943.9	504.70 ug/L	4.268	504.70 ppb	4.268	0.85%
QC value within limits for Ba 233.527 Recovery = 100.94%						
Be 313.107†	1416716.0	504.25 ug/L	1.058	504.25 ppb	1.058	0.21%
QC value within limits for Be 313.107 Recovery = 100.85%						
Ca 317.933Radial†	3381.1	5138.4 ug/L	41.97	5138.4 ppb	41.97	0.82%

QC value within limits for Ca 317.933 Radial Recovery = 102.77%							
Cd 226.502†	47549.5	503.43 ug/L	4.151	503.43 ppb	4.151	0.82%	
QC value within limits for Cd 226.502 Recovery = 100.69%							
Co 228.616†	25730.8	504.90 ug/L	4.538	504.90 ppb	4.538	0.90%	
QC value within limits for Co 228.616 Recovery = 100.98%							
Cr 267.716†	47019.6	503.06 ug/L	3.285	503.06 ppb	3.285	0.65%	
QC value within limits for Cr 267.716 Recovery = 100.61%							
Cu 324.752†	173162.6	502.26 ug/L	4.863	502.26 ppb	4.863	0.97%	
QC value within limits for Cu 324.752 Recovery = 100.45%							
Fe 238.204 Radial†	630.1	5209.9 ug/L	69.98	5209.9 ppb	69.98	1.34%	
QC value within limits for Fe 238.204 Radial Recovery = 104.20%							
K 766.490 Radial†	28610.9	5176.0 ug/L	27.94	5176.0 ppb	27.94	0.54%	
QC value within limits for K 766.490 Radial Recovery = 103.52%							
Mg 279.077 IEC†	169.5	5298.4 ug/L	45.32	5298.4 ppb	45.32	0.86%	
QC value within limits for Mg 279.077 IEC Recovery = 105.97%							
Mn 257.610†	475228.0	503.14 ug/L	1.074	503.14 ppb	1.074	0.21%	
QC value within limits for Mn 257.610 Recovery = 100.63%							
Mo 202.031†	7476.5	505.25 ug/L	2.808	505.25 ppb	2.808	0.56%	
QC value within limits for Mo 202.031 Recovery = 101.05%							
Na 589.592 Radial†	35944.1	10475 ug/L	52.2	10475 ppb	52.2	0.50%	
QC value within limits for Na 589.592 Radial Recovery = 104.75%							
Ni 231.604†	21211.1	504.60 ug/L	3.606	504.60 ppb	3.606	0.71%	
QC value within limits for Ni 231.604 Recovery = 100.92%							
P 214.914†	4363.2	2413.7 ug/L	13.35	2413.7 ppb	13.35	0.55%	
QC value within limits for P 214.914 Recovery = 96.55%							
Pb 220.353†	4318.5	505.38 ug/L	3.123	505.38 ppb	3.123	0.62%	
QC value within limits for Pb 220.353 Recovery = 101.08%							
S 181.975 Axial†	763.2	1016.5 ug/L	10.38	1016.5 ppb	10.38	1.02%	
QC value within limits for S 181.975 Axial Recovery = 101.65%							
Sb 206.836†	1513.9	518.80 ug/L	2.978	518.80 ppb	2.978	0.57%	
QC value within limits for Sb 206.836 Recovery = 103.76%							
Se 196.026†	832.4	525.34 ug/L	3.832	525.34 ppb	3.832	0.73%	
QC value within limits for Se 196.026 Recovery = 105.07%							
Si 251.611†	82900.8	2531.9 ug/L	22.46	2531.9 ppb	22.46	0.89%	
QC value within limits for Si 251.611 Recovery = 101.28%							
Sn 189.927†	3009.0	505.55 ug/L	4.186	505.55 ppb	4.186	0.83%	
QC value within limits for Sn 189.927 Recovery = 101.11%							
Sr 421.552†	82214.8	519.33 ug/L	3.892	519.33 ppb	3.892	0.75%	
QC value within limits for Sr 421.552 Recovery = 103.87%							
Ti 334.940†	318619.0	494.52 ug/L	4.256	494.52 ppb	4.256	0.86%	
QC value within limits for Ti 334.940 Recovery = 98.90%							
Tl 190.801†	1738.9	509.82 ug/L	1.822	509.82 ppb	1.822	0.36%	
QC value within limits for Tl 190.801 Recovery = 101.96%							
U 409.014†	17561.2	497.30 ug/L	3.302	497.30 ppb	3.302	0.66%	
QC value within limits for U 409.014 Recovery = 99.46%							
V 292.402†	76724.7	508.16 ug/L	4.166	508.16 ppb	4.166	0.82%	
QC value within limits for V 292.402 Recovery = 101.63%							
Zn 213.857†	55950.0	501.43 ug/L	4.395	501.43 ppb	4.395	0.88%	
QC value within limits for Zn 213.857 Recovery = 100.29%							
SiO2†	83406.7	5446.7 ug/L	25.27	5446.7 ppb	25.27	0.46%	
QC value within limits for SiO2 Recovery = 101.85%							
All analyte(s) passed QC.							

Sequence No.: 52

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 20:59:04

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	5277.4	5277.4	99.4 %		21:00:55
1	Y RADIAL	5647.6	5647.6	99.56 %		21:00:55
1	Al 396.153Radial†	-4.9	11.8	8.6694 ug/L	8.6694 ppb	21:00:55
1	Ca 317.933Radial†	19.4	-2.1	-3.1678 ug/L	-3.1678 ppb	21:01:15
1	Fe 238.204 Radial†	10.5	0.4	3.1988 ug/L	3.1988 ppb	21:01:15
1	K 766.490 Radial†	2844.7	213.9	38.734 ug/L	38.734 ppb	21:00:55
1	Mg 279.077 IEC†	2.7	-0.5	-14.979 ug/L	-14.979 ppb	21:01:15
1	Na 589.592 Radial†	-1550.5	56.8	16.564 ug/L	16.564 ppb	21:00:55
1	Sr 421.552†	-8.1	-23.9	-0.1507 ug/L	-0.1507 ppb	21:00:55
1	Sc 361.383	855951.5	855951.5	98.128 %		21:02:12
1	Y 371.029	721412.7	721412.7	98.354 %		21:02:12
1	Ag 328.068†	498.8	129.1	0.5742 ug/L	0.5742 ppb	21:02:12
1	As 188.979†	-21.3	1.7	0.7101 ug/L	0.7101 ppb	21:02:32
1	B 249.677†	-293.5	337.7	7.3620 ug/L	7.3620 ppb	21:02:32
1	Ba 233.527†	0.4	9.3	0.0700 ug/L	0.0700 ppb	21:02:32
1	Be 313.107†	-4252.5	-9.2	-0.0031 ug/L	-0.0031 ppb	21:02:12
1	Cd 226.502†	-166.1	33.3	0.3532 ug/L	0.3532 ppb	21:02:32
1	Co 228.616†	-84.8	-8.0	-0.1586 ug/L	-0.1586 ppb	21:02:32
1	Cr 267.716†	73.2	1.3	0.0138 ug/L	0.0138 ppb	21:02:32
1	Cu 324.752†	6515.4	93.7	0.2707 ug/L	0.2707 ppb	21:02:12
1	Mn 257.610†	430.3	-41.8	-0.0434 ug/L	-0.0434 ppb	21:02:32
1	Mo 202.031†	9.6	-10.8	-0.7274 ug/L	-0.7274 ppb	21:02:32
1	Ni 231.604†	116.3	24.3	0.5780 ug/L	0.5780 ppb	21:02:32
1	P 214.914†	213.9	6.4	3.6661 ug/L	3.6661 ppb	21:02:32
1	Pb 220.353†	-87.5	-21.8	-2.5461 ug/L	-2.5461 ppb	21:02:32
1	S 181.975 Axial†	48.5	4.9	6.4904 ug/L	6.4904 ppb	21:02:32
1	Sb 206.836†	41.1	12.7	4.1884 ug/L	4.1884 ppb	21:02:32
1	Se 196.026†	-29.6	-6.0	-3.6683 ug/L	-3.6683 ppb	21:02:32
1	Si 251.611†	637.0	205.7	6.3073 ug/L	6.3073 ppb	21:02:32
1	Sn 189.927†	8.5	7.9	1.3168 ug/L	1.3168 ppb	21:02:32
1	Ti 334.940†	-1293.3	32.4	0.0502 ug/L	0.0502 ppb	21:02:12
1	Tl 190.801†	-26.7	12.3	3.5695 ug/L	3.5695 ppb	21:02:32
1	U 409.014†	-1968.8	71.1	2.0196 ug/L	2.0196 ppb	21:02:12
1	V 292.402†	-1348.3	16.9	0.1031 ug/L	0.1031 ppb	21:02:12
1	Zn 213.857†	987.3	9.4	0.0807 ug/L	0.0807 ppb	21:02:32
1	SiO2†	579.8	132.0	8.6603 ug/L	8.6603 ppb	21:03:28
2	Sc Radial	5395.6	5395.6	102 %		21:01:20
2	Y RADIAL	5741.4	5741.4	101.2 %		21:01:20
2	Al 396.153Radial†	6.9	23.6	17.170 ug/L	17.170 ppb	21:01:20
2	Ca 317.933Radial†	15.9	-5.9	-8.9686 ug/L	-8.9686 ppb	21:01:40
2	Fe 238.204 Radial†	10.2	-0.1	-1.1004 ug/L	-1.1004 ppb	21:01:40
2	K 766.490 Radial†	2957.8	262.5	47.536 ug/L	47.536 ppb	21:01:20
2	Mg 279.077 IEC†	1.8	-1.5	-45.323 ug/L	-45.323 ppb	21:01:40
2	Na 589.592 Radial†	-1543.0	98.3	28.651 ug/L	28.651 ppb	21:01:20
2	Sr 421.552†	11.3	-4.6	-0.0287 ug/L	-0.0287 ppb	21:01:20
2	Sc 361.383	856379.6	856379.6	98.178 %		21:02:37
2	Y 371.029	720357.3	720357.3	98.210 %		21:02:37
2	Ag 328.068†	301.6	-72.1	-0.3215 ug/L	-0.3215 ppb	21:02:37
2	As 188.979†	-25.2	-2.2	-0.8962 ug/L	-0.8962 ppb	21:02:58
2	B 249.677†	-315.4	315.5	6.8792 ug/L	6.8792 ppb	21:02:58
2	Ba 233.527†	-13.8	-5.2	-0.0401 ug/L	-0.0401 ppb	21:02:58
2	Be 313.107†	-4297.5	-52.9	-0.0191 ug/L	-0.0191 ppb	21:02:37
2	Cd 226.502†	-176.6	22.7	0.2404 ug/L	0.2404 ppb	21:02:58
2	Co 228.616†	-75.4	1.6	0.0325 ug/L	0.0325 ppb	21:02:58
2	Cr 267.716†	68.7	-3.2	-0.0347 ug/L	-0.0347 ppb	21:02:58
2	Cu 324.752†	6554.1	129.8	0.3773 ug/L	0.3773 ppb	21:02:37
2	Mn 257.610†	421.7	-50.9	-0.0521 ug/L	-0.0521 ppb	21:02:58
2	Mo 202.031†	26.9	6.8	0.4590 ug/L	0.4590 ppb	21:02:58
2	Ni 231.604†	99.8	7.4	0.1768 ug/L	0.1768 ppb	21:02:58

2	P 214.914†	216.0	8.5	4.8394 ug/L	4.8394 ppb	21:02:58
2	Pb 220.353†	-70.6	-4.5	-0.5246 ug/L	-0.5246 ppb	21:02:58
2	S 181.975 Axial†	45.0	1.3	1.7790 ug/L	1.7790 ppb	21:02:58
2	Sb 206.836†	38.3	9.8	3.2495 ug/L	3.2495 ppb	21:02:58
2	Se 196.026†	-30.9	-7.3	-4.4421 ug/L	-4.4421 ppb	21:02:58
2	Si 251.611†	563.5	130.5	3.9894 ug/L	3.9894 ppb	21:02:58
2	Sn 189.927†	3.2	2.5	0.4170 ug/L	0.4170 ppb	21:02:58
2	Ti 334.940†	-1415.7	-91.6	-0.1390 ug/L	-0.1390 ppb	21:02:37
2	Tl 190.801†	-25.0	14.0	4.0815 ug/L	4.0815 ppb	21:02:58
2	U 409.014†	-2099.9	-61.5	-1.7464 ug/L	-1.7464 ppb	21:02:37
2	V 292.402†	-1435.3	-71.1	-0.4618 ug/L	-0.4618 ppb	21:02:37
2	Zn 213.857†	982.1	3.6	0.0312 ug/L	0.0312 ppb	21:02:58
2	SiO2†	571.0	122.7	8.0177 ug/L	8.0177 ppb	21:03:33
3	Sc Radial	5394.7	5394.7	102 %		21:01:46
3	Y RADIAL	5709.9	5709.9	100.7 %		21:01:46
3	Al 396.153Radial†	-22.8	-5.7	-4.2221 ug/L	-4.2221 ppb	21:01:46
3	Ca 317.933Radial†	21.2	-0.7	-1.0497 ug/L	-1.0497 ppb	21:02:06
3	Fe 238.204 Radial†	7.6	-2.7	-22.297 ug/L	-22.297 ppb	21:02:06
3	K 766.490 Radial†	2902.6	208.6	37.785 ug/L	37.785 ppb	21:01:46
3	Mg 279.077 IEC†	2.2	-1.0	-31.637 ug/L	-31.637 ppb	21:02:06
3	Na 589.592 Radial†	-1603.5	38.5	11.223 ug/L	11.223 ppb	21:01:46
3	Sr 421.552†	-19.6	-35.0	-0.2211 ug/L	-0.2211 ppb	21:01:46
3	Sc 361.383	873392.0	873392.0	100.13 %		21:03:03
3	Y 371.029	734256.2	734256.2	100.10 %		21:03:03
3	Ag 328.068†	430.9	51.1	0.2182 ug/L	0.2182 ppb	21:03:03
3	As 188.979†	-22.2	1.3	0.5073 ug/L	0.5073 ppb	21:03:23
3	B 249.677†	-310.0	327.2	7.1361 ug/L	7.1361 ppb	21:03:23
3	Ba 233.527†	-6.6	2.2	0.0149 ug/L	0.0149 ppb	21:03:23
3	Be 313.107†	-4412.8	-82.7	-0.0293 ug/L	-0.0293 ppb	21:03:03
3	Cd 226.502†	-182.9	20.0	0.2135 ug/L	0.2135 ppb	21:03:23
3	Co 228.616†	-75.1	3.4	0.0706 ug/L	0.0706 ppb	21:03:23
3	Cr 267.716†	87.3	13.9	0.1479 ug/L	0.1479 ppb	21:03:23
3	Cu 324.752†	6519.5	-34.8	-0.1020 ug/L	-0.1020 ppb	21:03:03
3	Mn 257.610†	445.7	-35.3	-0.0382 ug/L	-0.0382 ppb	21:03:23
3	Mo 202.031†	39.8	19.2	1.2953 ug/L	1.2953 ppb	21:03:23
3	Ni 231.604†	94.9	0.5	0.0123 ug/L	0.0123 ppb	21:03:23
3	P 214.914†	210.9	-0.9	-0.4505 ug/L	-0.4505 ppb	21:03:23
3	Pb 220.353†	-59.7	7.7	0.9028 ug/L	0.9028 ppb	21:03:23
3	S 181.975 Axial†	46.0	1.4	1.8549 ug/L	1.8549 ppb	21:03:23
3	Sb 206.836†	27.3	-2.0	-0.6133 ug/L	-0.6133 ppb	21:03:23
3	Se 196.026†	-26.6	-2.4	-1.5474 ug/L	-1.5474 ppb	21:03:23
3	Si 251.611†	545.8	101.7	3.0966 ug/L	3.0966 ppb	21:03:23
3	Sn 189.927†	5.7	4.9	0.8199 ug/L	0.8199 ppb	21:03:23
3	Ti 334.940†	-1339.1	13.0	0.0227 ug/L	0.0227 ppb	21:03:03
3	Tl 190.801†	-42.4	-2.9	-0.8345 ug/L	-0.8345 ppb	21:03:23
3	U 409.014†	-2088.7	-8.7	-0.2438 ug/L	-0.2438 ppb	21:03:03
3	V 292.402†	-1473.3	-80.5	-0.5054 ug/L	-0.5054 ppb	21:03:03
3	Zn 213.857†	988.1	-9.9	-0.0874 ug/L	-0.0874 ppb	21:03:23
3	SiO2†	623.4	163.7	10.680 ug/L	10.680 ppb	21:03:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861907.7	98.811 %	1.1405			1.15%
Sc Radial	5355.9	101 %	1.3			1.27%
Y 371.029	725342.1	98.889 %	1.0549			1.07%
Y RADIAL	5699.6	100.5 %	0.84			0.84%
Ag 328.068†	36.0	0.1570 ug/L	0.45096	0.1570 ppb	0.45096	287.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.9	7.2058 ug/L	10.77098	7.2058 ppb	10.77098	149.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.3	0.1071 ug/L	0.87475	0.1071 ppb	0.87475	816.85%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	326.8	7.1257 ug/L	0.24158	7.1257 ppb	0.24158	3.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.1	0.0149 ug/L	0.05507	0.0149 ppb	0.05507	368.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-48.3	-0.0172 ug/L	0.01320	-0.0172 ppb	0.01320	76.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.9	-4.3954 ug/L	4.09966	-4.3954 ppb	4.09966	93.27%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	25.3	0.2690 ug/L	0.07411	0.2690 ppb	0.07411	27.55%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-1.0	-0.0185 ug/L	0.12279	-0.0185 ppb	0.12279	663.33%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	4.0	0.0423 ug/L	0.09459	0.0423 ppb	0.09459	223.36%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	62.9	0.1820 ug/L	0.25169	0.1820 ppb	0.25169	138.29%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.8	-6.7329 ug/L	13.64936	-6.7329 ppb	13.64936	202.73%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	228.3	41.351 ug/L	5.3767	41.351 ppb	5.3767	13.00%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.0	-30.647 ug/L	15.1964	-30.647 ppb	15.1964	49.59%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-42.7	-0.0446 ug/L	0.00702	-0.0446 ppb	0.00702	15.75%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	5.1	0.3423 ug/L	1.01637	0.3423 ppb	1.01637	296.94%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	64.6	18.813 ug/L	8.9292	18.813 ppb	8.9292	47.46%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	10.7	0.2557 ug/L	0.29099	0.2557 ppb	0.29099	113.80%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	4.7	2.6850 ug/L	2.77810	2.6850 ppb	2.77810	103.47%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-6.2	-0.7226 ug/L	1.73296	-0.7226 ppb	1.73296	239.81%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	2.5	3.3748 ug/L	2.69847	3.3748 ppb	2.69847	79.96%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	6.8	2.2748 ug/L	2.54492	2.2748 ppb	2.54492	111.87%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-5.3	-3.2193 ug/L	1.49868	-3.2193 ppb	1.49868	46.55%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	146.0	4.4644 ug/L	1.65725	4.4644 ppb	1.65725	37.12%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	5.1	0.8512 ug/L	0.45069	0.8512 ppb	0.45069	52.95%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-21.1	-0.1335 ug/L	0.09733	-0.1335 ppb	0.09733	72.90%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-15.4	-0.0220 ug/L	0.10220	-0.0220 ppb	0.10220	464.17%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	7.8	2.2722 ug/L	2.70261	2.2722 ppb	2.70261	118.94%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	0.3	0.0098 ug/L	1.89579	0.0098 ppb	1.89579	>999.9%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-44.9	-0.2880 ug/L	0.33944	-0.2880 ppb	0.33944	117.84%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	1.0	0.0082 ug/L	0.08636	0.0082 ppb	0.08636	>999.9%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		139.4	9.1193 ug/L	1.38914	9.1193 ppb	1.38914	15.23%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 60

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 21:53:53

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5290.9	5290.9	99.6 %		21:55:45
1	Y RADIAL	5592.9	5592.9	98.60 %		21:55:45
1	Al 396.153Radial†	6944.4	6986.7	5069.7 ug/L	5069.7 ppb	21:55:45
1	Ca 317.933Radial†	3372.0	3362.8	5110.6 ug/L	5110.6 ppb	21:56:05
1	Fe 238.204 Radial†	641.2	633.4	5237.3 ug/L	5237.3 ppb	21:56:05
1	K 766.490 Radial†	31284.8	28751.1	5201.5 ug/L	5201.5 ppb	21:55:45
1	Mg 279.077 IEC†	171.9	169.3	5291.7 ug/L	5291.7 ppb	21:56:05
1	Na 589.592 Radial†	33748.9	35489.9	10343 ug/L	10343 ppb	21:55:45
1	Sr 421.552†	81273.1	81556.0	515.16 ug/L	515.16 ppb	21:55:45
1	Sc 361.383	880950.9	880950.9	100.99 %		21:57:02
1	Y 371.029	727407.7	727407.7	99.171 %		21:57:02
1	Ag 328.068†	116582.3	115055.0	515.14 ug/L	515.14 ppb	21:57:08
1	As 188.979†	1222.5	1233.9	505.44 ug/L	505.44 ppb	21:57:28
1	B 249.677†	23000.8	23411.1	508.09 ug/L	508.09 ppb	21:57:08
1	Ba 233.527†	68271.9	67608.5	509.71 ug/L	509.71 ppb	21:57:08
1	Be 313.107†	1426497.7	1416775.6	504.30 ug/L	504.30 ppb	21:57:02
1	Cd 226.502†	48393.5	48119.6	509.47 ug/L	509.47 ppb	21:57:08
1	Co 228.616†	26255.2	26075.1	511.62 ug/L	511.62 ppb	21:57:08
1	Cr 267.716†	48013.7	47467.7	507.85 ug/L	507.85 ppb	21:57:08
1	Cu 324.752†	183099.0	174750.0	506.86 ug/L	506.86 ppb	21:57:08
1	Mn 257.610†	482148.0	476919.9	504.93 ug/L	504.93 ppb	21:57:02
1	Mo 202.031†	7516.5	7421.9	501.57 ug/L	501.57 ppb	21:57:28
1	Ni 231.604†	21716.0	21407.9	509.28 ug/L	509.28 ppb	21:57:08
1	P 214.914†	4598.3	4341.5	2400.3 ug/L	2400.3 ppb	21:57:28
1	Pb 220.353†	4267.3	4292.6	502.34 ug/L	502.34 ppb	21:57:28
1	S 181.975 Axial†	806.1	753.6	1003.8 ug/L	1003.8 ppb	21:57:28
1	Sb 206.836†	1550.9	1506.5	516.18 ug/L	516.18 ppb	21:57:28
1	Se 196.026†	815.5	831.6	524.88 ug/L	524.88 ppb	21:57:28
1	Si 251.611†	84994.7	83714.3	2556.8 ug/L	2556.8 ppb	21:57:08
1	Sn 189.927†	3021.0	2990.5	502.44 ug/L	502.44 ppb	21:57:28
1	Ti 334.940†	329645.1	327749.5	508.68 ug/L	508.68 ppb	21:57:02
1	Tl 190.801†	1690.7	1713.5	502.51 ug/L	502.51 ppb	21:57:28
1	U 409.014†	16043.3	17962.7	508.70 ug/L	508.70 ppb	21:57:08
1	V 292.402†	76796.8	77431.5	512.72 ug/L	512.72 ppb	21:57:08
1	Zn 213.857†	58143.4	56574.1	507.03 ug/L	507.03 ppb	21:57:08
1	SiO2†	83421.9	82141.5	5364.0 ug/L	5364.0 ppb	21:58:35
2	Sc Radial	5251.4	5251.4	98.9 %		21:56:10
2	Y RADIAL	5582.0	5582.0	98.41 %		21:56:10
2	Al 396.153Radial†	6925.9	7020.4	5093.8 ug/L	5093.8 ppb	21:56:10
2	Ca 317.933Radial†	3398.1	3414.7	5189.4 ug/L	5189.4 ppb	21:56:30
2	Fe 238.204 Radial†	635.7	632.7	5231.3 ug/L	5231.3 ppb	21:56:30
2	K 766.490 Radial†	31176.2	28877.6	5224.4 ug/L	5224.4 ppb	21:56:10
2	Mg 279.077 IEC†	172.6	171.3	5354.4 ug/L	5354.4 ppb	21:56:30
2	Na 589.592 Radial†	33456.0	35448.5	10330 ug/L	10330 ppb	21:56:10
2	Sr 421.552†	80906.9	81799.4	516.70 ug/L	516.70 ppb	21:56:10
2	Sc 361.383	865427.5	865427.5	99.215 %		21:57:33
2	Y 371.029	715426.5	715426.5	97.537 %		21:57:33
2	Ag 328.068†	115412.7	115946.8	519.11 ug/L	519.11 ppb	21:57:39
2	As 188.979†	1233.1	1266.3	518.54 ug/L	518.54 ppb	21:57:59
2	B 249.677†	22718.0	23534.5	510.77 ug/L	510.77 ppb	21:57:39
2	Ba 233.527†	67471.6	68014.4	512.77 ug/L	512.77 ppb	21:57:39
2	Be 313.107†	1401572.3	1416988.4	504.38 ug/L	504.38 ppb	21:57:33
2	Cd 226.502†	47911.4	48493.2	513.43 ug/L	513.43 ppb	21:57:39
2	Co 228.616†	25909.4	26192.8	513.95 ug/L	513.95 ppb	21:57:39
2	Cr 267.716†	47600.0	47903.5	512.51 ug/L	512.51 ppb	21:57:39
2	Cu 324.752†	181046.8	175933.6	510.29 ug/L	510.29 ppb	21:57:39
2	Mn 257.610†	473375.3	476641.0	504.63 ug/L	504.63 ppb	21:57:33
2	Mo 202.031†	7540.9	7580.0	512.24 ug/L	512.24 ppb	21:57:59
2	Ni 231.604†	21480.9	21556.7	512.82 ug/L	512.82 ppb	21:57:39

2	P 214.914†	4598.5	4423.4	2446.8 ug/L	2446.8 ppb	21:57:59
2	Pb 220.353†	4279.3	4380.5	512.63 ug/L	512.63 ppb	21:57:59
2	S 181.975 Axial†	814.7	776.6	1034.4 ug/L	1034.4 ppb	21:57:59
2	Sb 206.836†	1551.3	1534.4	525.84 ug/L	525.84 ppb	21:57:59
2	Se 196.026†	815.6	846.2	533.81 ug/L	533.81 ppb	21:57:59
2	Si 251.611†	84047.1	84268.8	2573.7 ug/L	2573.7 ppb	21:57:39
2	Sn 189.927†	3042.1	3065.4	515.02 ug/L	515.02 ppb	21:57:59
2	Ti 334.940†	323035.4	326942.2	507.43 ug/L	507.43 ppb	21:57:33
2	Tl 190.801†	1711.0	1764.0	517.19 ug/L	517.19 ppb	21:57:59
2	U 409.014†	15912.5	18115.8	513.04 ug/L	513.04 ppb	21:57:39
2	V 292.402†	75993.1	77985.4	516.51 ug/L	516.51 ppb	21:57:39
2	Zn 213.857†	57365.4	56822.6	509.25 ug/L	509.25 ppb	21:57:39
2	SiO2†	83295.7	83495.9	5452.3 ug/L	5452.3 ppb	21:58:40
3	Sc Radial	5267.2	5267.2	99.2 %		21:56:35
3	Y RADIAL	5574.8	5574.8	98.28 %		21:56:35
3	Al 396.153Radial†	6915.4	6988.8	5071.0 ug/L	5071.0 ppb	21:56:35
3	Ca 317.933Radial†	3384.0	3390.2	5152.2 ug/L	5152.2 ppb	21:56:55
3	Fe 238.204 Radial†	638.1	633.2	5235.4 ug/L	5235.4 ppb	21:56:55
3	K 766.490 Radial†	31010.0	28615.3	5176.9 ug/L	5176.9 ppb	21:56:35
3	Mg 279.077 IEC†	169.6	167.7	5243.0 ug/L	5243.0 ppb	21:56:55
3	Na 589.592 Radial†	33206.3	35095.3	10228 ug/L	10228 ppb	21:56:35
3	Sr 421.552†	80418.0	81060.9	512.04 ug/L	512.04 ppb	21:56:35
3	Sc 361.383	874564.2	874564.2	100.26 %		21:58:05
3	Y 371.029	723254.8	723254.8	98.605 %		21:58:05
3	Ag 328.068†	115259.3	114578.6	513.01 ug/L	513.01 ppb	21:58:10
3	As 188.979†	1221.3	1241.5	508.53 ug/L	508.53 ppb	21:58:30
3	B 249.677†	22696.1	23273.5	505.10 ug/L	505.10 ppb	21:58:10
3	Ba 233.527†	67404.1	67236.6	506.91 ug/L	506.91 ppb	21:58:10
3	Be 313.107†	1424378.4	1424976.5	507.22 ug/L	507.22 ppb	21:58:05
3	Cd 226.502†	47807.3	47884.8	506.98 ug/L	506.98 ppb	21:58:10
3	Co 228.616†	25849.3	25860.1	507.41 ug/L	507.41 ppb	21:58:10
3	Cr 267.716†	47527.5	47329.9	506.38 ug/L	506.38 ppb	21:58:10
3	Cu 324.752†	180962.7	173943.2	504.52 ug/L	504.52 ppb	21:58:10
3	Mn 257.610†	479363.6	477629.1	505.68 ug/L	505.68 ppb	21:58:05
3	Mo 202.031†	7527.3	7487.0	505.96 ug/L	505.96 ppb	21:58:30
3	Ni 231.604†	21483.8	21333.3	507.51 ug/L	507.51 ppb	21:58:10
3	P 214.914†	4604.6	4381.1	2423.5 ug/L	2423.5 ppb	21:58:30
3	Pb 220.353†	4260.9	4317.1	505.21 ug/L	505.21 ppb	21:58:30
3	S 181.975 Axial†	806.6	760.0	1012.2 ug/L	1012.2 ppb	21:58:30
3	Sb 206.836†	1573.0	1539.7	527.33 ug/L	527.33 ppb	21:58:30
3	Se 196.026†	816.3	838.3	528.99 ug/L	528.99 ppb	21:58:30
3	Si 251.611†	83919.8	83256.8	2542.8 ug/L	2542.8 ppb	21:58:10
3	Sn 189.927†	3026.6	3017.9	507.04 ug/L	507.04 ppb	21:58:30
3	Ti 334.940†	327010.5	327505.4	508.32 ug/L	508.32 ppb	21:58:05
3	Tl 190.801†	1711.0	1746.0	511.98 ug/L	511.98 ppb	21:58:30
3	U 409.014†	15731.1	17767.4	503.15 ug/L	503.15 ppb	21:58:10
3	V 292.402†	76002.5	77194.6	511.23 ug/L	511.23 ppb	21:58:10
3	Zn 213.857†	57371.2	56224.4	503.89 ug/L	503.89 ppb	21:58:10
3	SiO2†	84515.0	83835.0	5474.7 ug/L	5474.7 ppb	21:58:46

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	873647.5	100.16 %	0.894			0.89%
Sc Radial	5269.8	99.2 %	0.37			0.38%
Y 371.029	722029.7	98.438 %	0.8294			0.84%
Y RADIAL	5583.2	98.43 %	0.161			0.16%
Ag 328.068†	115193.5	515.75 ug/L	3.096	515.75 ppb	3.096	0.60%
QC value within limits for Ag 328.068 Recovery = 103.15%						
Al 396.153Radial†	6998.6	5078.2 ug/L	13.52	5078.2 ppb	13.52	0.27%
QC value within limits for Al 396.153Radial Recovery = 101.56%						
As 188.979†	1247.2	510.84 ug/L	6.851	510.84 ppb	6.851	1.34%
QC value within limits for As 188.979 Recovery = 102.17%						
B 249.677†	23406.4	507.99 ug/L	2.838	507.99 ppb	2.838	0.56%
QC value within limits for B 249.677 Recovery = 101.60%						
Ba 233.527†	67619.8	509.80 ug/L	2.931	509.80 ppb	2.931	0.57%
QC value within limits for Ba 233.527 Recovery = 101.96%						
Be 313.107†	1419580.2	505.30 ug/L	1.660	505.30 ppb	1.660	0.33%
QC value within limits for Be 313.107 Recovery = 101.06%						
Ca 317.933Radial†	3389.2	5150.7 ug/L	39.43	5150.7 ppb	39.43	0.77%

QC value within limits for Ca 317.933 Radial Recovery = 103.01%							
Cd 226.502†	48165.9	509.96 ug/L	3.252	509.96 ppb	3.252	0.64%	
QC value within limits for Cd 226.502 Recovery = 101.99%							
Co 228.616†	26042.7	510.99 ug/L	3.317	510.99 ppb	3.317	0.65%	
QC value within limits for Co 228.616 Recovery = 102.20%							
Cr 267.716†	47567.0	508.92 ug/L	3.201	508.92 ppb	3.201	0.63%	
QC value within limits for Cr 267.716 Recovery = 101.78%							
Cu 324.752†	174875.6	507.22 ug/L	2.901	507.22 ppb	2.901	0.57%	
QC value within limits for Cu 324.752 Recovery = 101.44%							
Fe 238.204 Radial†	633.1	5234.6 ug/L	3.04	5234.6 ppb	3.04	0.06%	
QC value within limits for Fe 238.204 Radial Recovery = 104.69%							
K 766.490 Radial†	28748.0	5200.9 ug/L	23.73	5200.9 ppb	23.73	0.46%	
QC value within limits for K 766.490 Radial Recovery = 104.02%							
Mg 279.077 IEC†	169.4	5296.4 ug/L	55.84	5296.4 ppb	55.84	1.05%	
QC value within limits for Mg 279.077 IEC Recovery = 105.93%							
Mn 257.610†	477063.3	505.08 ug/L	0.541	505.08 ppb	0.541	0.11%	
QC value within limits for Mn 257.610 Recovery = 101.02%							
Mo 202.031†	7496.3	506.59 ug/L	5.363	506.59 ppb	5.363	1.06%	
QC value within limits for Mo 202.031 Recovery = 101.32%							
Na 589.592 Radial†	35344.6	10300 ug/L	63.2	10300 ppb	63.2	0.61%	
QC value within limits for Na 589.592 Radial Recovery = 103.00%							
Ni 231.604†	21432.7	509.87 ug/L	2.705	509.87 ppb	2.705	0.53%	
QC value within limits for Ni 231.604 Recovery = 101.97%							
P 214.914†	4382.0	2423.5 ug/L	23.29	2423.5 ppb	23.29	0.96%	
QC value within limits for P 214.914 Recovery = 96.94%							
Pb 220.353†	4330.1	506.73 ug/L	5.310	506.73 ppb	5.310	1.05%	
QC value within limits for Pb 220.353 Recovery = 101.35%							
S 181.975 Axial†	763.4	1016.8 ug/L	15.83	1016.8 ppb	15.83	1.56%	
QC value within limits for S 181.975 Axial Recovery = 101.68%							
Sb 206.836†	1526.8	523.12 ug/L	6.051	523.12 ppb	6.051	1.16%	
QC value within limits for Sb 206.836 Recovery = 104.62%							
Se 196.026†	838.7	529.23 ug/L	4.471	529.23 ppb	4.471	0.84%	
QC value within limits for Se 196.026 Recovery = 105.85%							
Si 251.611†	83746.6	2557.8 ug/L	15.47	2557.8 ppb	15.47	0.60%	
QC value within limits for Si 251.611 Recovery = 102.31%							
Sn 189.927†	3024.6	508.17 ug/L	6.362	508.17 ppb	6.362	1.25%	
QC value within limits for Sn 189.927 Recovery = 101.63%							
Sr 421.552†	81472.1	514.63 ug/L	2.377	514.63 ppb	2.377	0.46%	
QC value within limits for Sr 421.552 Recovery = 102.93%							
Ti 334.940†	327399.0	508.15 ug/L	0.643	508.15 ppb	0.643	0.13%	
QC value within limits for Ti 334.940 Recovery = 101.63%							
Tl 190.801†	1741.2	510.56 ug/L	7.441	510.56 ppb	7.441	1.46%	
QC value within limits for Tl 190.801 Recovery = 102.11%							
U 409.014†	17948.6	508.29 ug/L	4.956	508.29 ppb	4.956	0.98%	
QC value within limits for U 409.014 Recovery = 101.66%							
V 292.402†	77537.2	513.49 ug/L	2.720	513.49 ppb	2.720	0.53%	
QC value within limits for V 292.402 Recovery = 102.70%							
Zn 213.857†	56540.4	506.73 ug/L	2.697	506.73 ppb	2.697	0.53%	
QC value within limits for Zn 213.857 Recovery = 101.35%							
SiO2†	83157.5	5430.3 ug/L	58.56	5430.3 ppb	58.56	1.08%	
QC value within limits for SiO2 Recovery = 101.55%							
All analyte(s) passed QC.							

Sequence No.: 61
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 1/13/2010 22:00:55
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5461.8	5461.8	103 %		22:02:47
1	Y RADIAL	5812.4	5812.4	102.5 %		22:02:47
1	Al 396.153Radial†	-6.2	10.7	7.7969 ug/L	7.7969 ppb	22:02:47
1	Ca 317.933Radial†	17.2	-4.9	-7.3902 ug/L	-7.3902 ppb	22:03:07
1	Fe 238.204 Radial†	11.2	0.7	5.7328 ug/L	5.7328 ppb	22:03:07
1	K 766.490 Radial†	3019.8	287.4	52.058 ug/L	52.058 ppb	22:02:47
1	Mg 279.077 IEC†	3.2	-0.1	-2.7429 ug/L	-2.7429 ppb	22:03:07
1	Na 589.592 Radial†	-1590.2	70.8	20.645 ug/L	20.645 ppb	22:02:47
1	Sr 421.552†	21.9	5.6	0.0356 ug/L	0.0356 ppb	22:02:47
1	Sc 361.383	860228.6	860228.6	98.619 %		22:04:04
1	Y 371.029	728889.4	728889.4	99.373 %		22:04:04
1	Ag 328.068†	330.8	-43.9	-0.1936 ug/L	-0.1936 ppb	22:04:04
1	As 188.979†	-20.6	2.6	1.0416 ug/L	1.0416 ppb	22:04:24
1	B 249.677†	-270.9	362.0	7.8923 ug/L	7.8923 ppb	22:04:24
1	Ba 233.527†	-3.5	5.3	0.0411 ug/L	0.0411 ppb	22:04:24
1	Be 313.107†	-4326.6	-62.8	-0.0220 ug/L	-0.0220 ppb	22:04:04
1	Cd 226.502†	-183.0	17.0	0.1803 ug/L	0.1803 ppb	22:04:24
1	Co 228.616†	-78.5	-1.2	-0.0225 ug/L	-0.0225 ppb	22:04:24
1	Cr 267.716†	51.0	-21.5	-0.2302 ug/L	-0.2302 ppb	22:04:24
1	Cu 324.752†	6439.6	-16.2	-0.0482 ug/L	-0.0482 ppb	22:04:04
1	Mn 257.610†	454.9	-19.2	-0.0196 ug/L	-0.0196 ppb	22:04:24
1	Mo 202.031†	24.6	4.4	0.2994 ug/L	0.2994 ppb	22:04:24
1	Ni 231.604†	86.2	-6.8	-0.1612 ug/L	-0.1612 ppb	22:04:24
1	P 214.914†	214.1	5.6	3.2166 ug/L	3.2166 ppb	22:04:24
1	Pb 220.353†	-86.1	-19.9	-2.3213 ug/L	-2.3213 ppb	22:04:24
1	S 181.975 Axial†	40.0	-3.9	-5.2644 ug/L	-5.2644 ppb	22:04:24
1	Sb 206.836†	36.3	7.6	2.5483 ug/L	2.5483 ppb	22:04:24
1	Se 196.026†	-23.0	0.8	0.4880 ug/L	0.4880 ppb	22:04:24
1	Si 251.611†	519.4	83.2	2.5442 ug/L	2.5442 ppb	22:04:24
1	Sn 189.927†	8.5	7.9	1.3225 ug/L	1.3225 ppb	22:04:24
1	Ti 334.940†	-1245.9	87.0	0.1332 ug/L	0.1332 ppb	22:04:04
1	Tl 190.801†	-36.8	2.2	0.6275 ug/L	0.6275 ppb	22:04:24
1	U 409.014†	-1959.1	90.9	2.5820 ug/L	2.5820 ppb	22:04:04
1	V 292.402†	-1306.3	66.4	0.4419 ug/L	0.4419 ppb	22:04:04
1	Zn 213.857†	997.9	15.2	0.1378 ug/L	0.1378 ppb	22:04:24
1	SiO2†	502.6	50.7	3.3130 ug/L	3.3130 ppb	22:05:20
2	Sc Radial	5278.8	5278.8	99.4 %		22:03:13
2	Y RADIAL	5605.8	5605.8	98.83 %		22:03:13
2	Al 396.153Radial†	-9.4	7.3	5.3265 ug/L	5.3265 ppb	22:03:13
2	Ca 317.933Radial†	17.3	-4.2	-6.3472 ug/L	-6.3472 ppb	22:03:33
2	Fe 238.204 Radial†	11.9	1.8	15.030 ug/L	15.030 ppb	22:03:33
2	K 766.490 Radial†	2998.1	367.4	66.556 ug/L	66.556 ppb	22:03:13
2	Mg 279.077 IEC†	2.1	-1.1	-34.806 ug/L	-34.806 ppb	22:03:33
2	Na 589.592 Radial†	-1639.2	-32.0	-9.3380 ug/L	-9.3380 ppb	22:03:13
2	Sr 421.552†	16.9	1.3	0.0084 ug/L	0.0084 ppb	22:03:13
2	Sc 361.383	853460.2	853460.2	97.843 %		22:04:30
2	Y 371.029	722900.3	722900.3	98.556 %		22:04:30
2	Ag 328.068†	363.8	-7.5	-0.0280 ug/L	-0.0280 ppb	22:04:30
2	As 188.979†	-22.6	0.3	0.1160 ug/L	0.1160 ppb	22:04:50
2	B 249.677†	-240.6	390.8	8.5174 ug/L	8.5174 ppb	22:04:50
2	Ba 233.527†	-9.8	-1.2	-0.0088 ug/L	-0.0088 ppb	22:04:50
2	Be 313.107†	-4224.3	7.0	0.0024 ug/L	0.0024 ppb	22:04:30
2	Cd 226.502†	-183.3	15.3	0.1603 ug/L	0.1603 ppb	22:04:50
2	Co 228.616†	-55.7	21.5	0.4212 ug/L	0.4212 ppb	22:04:50
2	Cr 267.716†	66.8	-4.9	-0.0521 ug/L	-0.0521 ppb	22:04:50
2	Cu 324.752†	6405.3	0.5	0.0025 ug/L	0.0025 ppb	22:04:30
2	Mn 257.610†	457.8	-12.5	-0.0103 ug/L	-0.0103 ppb	22:04:50
2	Mo 202.031†	21.3	1.2	0.0829 ug/L	0.0829 ppb	22:04:50
2	Ni 231.604†	78.3	-14.2	-0.3380 ug/L	-0.3380 ppb	22:04:50

2	P 214.914†	202.2	-4.9	-2.8087 ug/L	-2.8087 ppb	22:04:50
2	Pb 220.353†	-55.8	10.3	1.2061 ug/L	1.2061 ppb	22:04:50
2	S 181.975 Axial†	48.7	5.2	6.9335 ug/L	6.9335 ppb	22:04:50
2	Sb 206.836†	33.0	4.5	1.5137 ug/L	1.5137 ppb	22:04:50
2	Se 196.026†	-29.0	-5.5	-3.2814 ug/L	-3.2814 ppb	22:04:50
2	Si 251.611†	508.5	76.3	2.3347 ug/L	2.3347 ppb	22:04:50
2	Sn 189.927†	8.7	8.2	1.3709 ug/L	1.3709 ppb	22:04:50
2	Ti 334.940†	-1352.3	-31.7	-0.0470 ug/L	-0.0470 ppb	22:04:30
2	Tl 190.801†	-33.8	4.9	1.4347 ug/L	1.4347 ppb	22:04:50
2	U 409.014†	-2050.3	-18.1	-0.5164 ug/L	-0.5164 ppb	22:04:30
2	V 292.402†	-1366.3	-5.5	-0.0385 ug/L	-0.0385 ppb	22:04:30
2	Zn 213.857†	984.8	9.8	0.0895 ug/L	0.0895 ppb	22:04:50
2	SiO2†	550.8	104.0	6.8082 ug/L	6.8082 ppb	22:05:25
3	Sc Radial	5416.3	5416.3	102 %		22:03:38
3	Y RADIAL	5795.0	5795.0	102.2 %		22:03:38
3	Al 396.153Radial†	9.2	25.8	18.768 ug/L	18.768 ppb	22:03:38
3	Ca 317.933Radial†	16.4	-5.5	-8.3648 ug/L	-8.3648 ppb	22:03:58
3	Fe 238.204 Radial†	9.3	-1.0	-8.6372 ug/L	-8.6372 ppb	22:03:58
3	K 766.490 Radial†	2954.2	247.8	44.876 ug/L	44.876 ppb	22:03:38
3	Mg 279.077 IEC†	1.4	-1.8	-57.534 ug/L	-57.534 ppb	22:03:58
3	Na 589.592 Radial†	-1574.5	73.3	21.349 ug/L	21.349 ppb	22:03:38
3	Sr 421.552†	-14.1	-29.5	-0.1863 ug/L	-0.1863 ppb	22:03:38
3	Sc 361.383	862437.5	862437.5	98.872 %		22:04:55
3	Y 371.029	733582.9	733582.9	100.01 %		22:04:55
3	Ag 328.068†	363.8	-11.3	-0.0523 ug/L	-0.0523 ppb	22:04:55
3	As 188.979†	-22.1	1.1	0.4392 ug/L	0.4392 ppb	22:05:15
3	B 249.677†	-280.4	353.2	7.6998 ug/L	7.6998 ppb	22:05:15
3	Ba 233.527†	2.4	11.3	0.0840 ug/L	0.0840 ppb	22:05:15
3	Be 313.107†	-4246.7	29.3	0.0103 ug/L	0.0103 ppb	22:04:55
3	Cd 226.502†	-178.6	21.9	0.2328 ug/L	0.2328 ppb	22:05:15
3	Co 228.616†	-63.2	14.6	0.2862 ug/L	0.2862 ppb	22:05:15
3	Cr 267.716†	66.7	-5.7	-0.0610 ug/L	-0.0610 ppb	22:05:15
3	Cu 324.752†	6479.1	7.0	0.0213 ug/L	0.0213 ppb	22:04:55
3	Mn 257.610†	440.6	-34.8	-0.0353 ug/L	-0.0353 ppb	22:05:15
3	Mo 202.031†	22.3	2.0	0.1354 ug/L	0.1354 ppb	22:05:15
3	Ni 231.604†	99.2	6.1	0.1448 ug/L	0.1448 ppb	22:05:15
3	P 214.914†	219.6	10.6	6.0900 ug/L	6.0900 ppb	22:05:15
3	Pb 220.353†	-83.8	-17.4	-2.0205 ug/L	-2.0205 ppb	22:05:15
3	S 181.975 Axial†	45.1	1.1	1.4514 ug/L	1.4514 ppb	22:05:15
3	Sb 206.836†	28.1	-0.8	-0.2364 ug/L	-0.2364 ppb	22:05:15
3	Se 196.026†	-19.8	4.1	2.4586 ug/L	2.4586 ppb	22:05:15
3	Si 251.611†	531.8	94.4	2.8893 ug/L	2.8893 ppb	22:05:15
3	Sn 189.927†	5.0	4.3	0.7215 ug/L	0.7215 ppb	22:05:15
3	Ti 334.940†	-1364.8	-30.0	-0.0419 ug/L	-0.0419 ppb	22:04:55
3	Tl 190.801†	-34.7	4.4	1.2857 ug/L	1.2857 ppb	22:05:15
3	U 409.014†	-2138.8	-85.8	-2.4382 ug/L	-2.4382 ppb	22:04:55
3	V 292.402†	-1421.9	-47.2	-0.3113 ug/L	-0.3113 ppb	22:04:55
3	Zn 213.857†	975.3	-10.3	-0.0932 ug/L	-0.0932 ppb	22:05:15
3	SiO2†	506.7	53.6	3.5022 ug/L	3.5022 ppb	22:05:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	858708.7	98.445 %		0.5363			0.54%
Sc Radial	5385.6	101 %		1.8			1.77%
Y 371.029	728457.5	99.314 %		0.7300			0.74%
Y RADIAL	5737.7	101.2 %		2.02			2.00%
Ag 328.068†	-20.9	-0.0913 ug/L		0.08941	-0.0913 ppb	0.08941	97.93%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	14.6	10.631 ug/L		7.1550	10.631 ppb	7.1550	67.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.3	0.5323 ug/L		0.46978	0.5323 ppb	0.46978	88.26%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	368.7	8.0365 ug/L		0.42743	8.0365 ppb	0.42743	5.32%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	5.1	0.0388 ug/L		0.04648	0.0388 ppb	0.04648	119.94%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-8.8	-0.0031 ug/L		0.01683	-0.0031 ppb	0.01683	541.55%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-4.8	-7.3674 ug/L		1.00895	-7.3674 ppb	1.00895	13.69%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	18.1	0.1911 ug/L	0.03749	0.1911 ppb	0.03749	19.62%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	11.6	0.2283 ug/L	0.22745	0.2283 ppb	0.22745	99.63%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-10.7	-0.1145 ug/L	0.10036	-0.1145 ppb	0.10036	87.68%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-2.9	-0.0082 ug/L	0.03597	-0.0082 ppb	0.03597	441.26%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	0.5	4.0419 ug/L	11.92398	4.0419 ppb	11.92398	295.01%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	300.9	54.497 ug/L	11.0437	54.497 ppb	11.0437	20.26%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-1.0	-31.694 ug/L	27.5275	-31.694 ppb	27.5275	86.85%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-22.1	-0.0217 ug/L	0.01261	-0.0217 ppb	0.01261	58.04%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	2.6	0.1726 ug/L	0.11292	0.1726 ppb	0.11292	65.44%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	37.4	10.885 ug/L	17.5176	10.885 ppb	17.5176	160.93%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-5.0	-0.1181 ug/L	0.24422	-0.1181 ppb	0.24422	206.74%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	3.7	2.1660 ug/L	4.54141	2.1660 ppb	4.54141	209.67%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-9.0	-1.0452 ug/L	1.95549	-1.0452 ppb	1.95549	187.09%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	0.8	1.0402 ug/L	6.10937	1.0402 ppb	6.10937	587.35%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	3.8	1.2752 ug/L	1.40760	1.2752 ppb	1.40760	110.38%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-0.2	-0.1116 ug/L	2.91655	-0.1116 ppb	2.91655	>999.9%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	84.6	2.5894 ug/L	0.28005	2.5894 ppb	0.28005	10.82%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	6.8	1.1383 ug/L	0.36176	1.1383 ppb	0.36176	31.78%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-7.5	-0.0474 ug/L	0.12102	-0.0474 ppb	0.12102	255.07%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	8.4	0.0148 ug/L	0.10262	0.0148 ppb	0.10262	694.31%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	3.8	1.1159 ug/L	0.42953	1.1159 ppb	0.42953	38.49%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	-4.4	-0.1242 ug/L	2.53298	-0.1242 ppb	2.53298	>999.9%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	4.5	0.0307 ug/L	0.38131	0.0307 ppb	0.38131	>999.9%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	4.9	0.0447 ug/L	0.12185	0.0447 ppb	0.12185	272.48%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	69.4	4.5411 ug/L	1.96563	4.5411 ppb	1.96563	43.28%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 71

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/13/2010 23:09:42

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	5142.4	5142.4	96.8 %		23:11:33
1	Y RADIAL	5479.9	5479.9	96.61 %		23:11:33
1	Al 396.153Radial†	6810.8	7050.0	5115.2 ug/L	5115.2 ppb	23:11:33
1	Ca 317.933Radial†	3329.2	3416.4	5192.0 ug/L	5192.0 ppb	23:11:53
1	Fe 238.204 Radial†	622.1	632.2	5227.4 ug/L	5227.4 ppb	23:11:53
1	K 766.490 Radial†	30725.1	29080.0	5261.0 ug/L	5261.0 ppb	23:11:33
1	Mg 279.077 IEC†	171.5	173.9	5435.5 ug/L	5435.5 ppb	23:11:53
1	Na 589.592 Radial†	32831.2	35520.5	10351 ug/L	10351 ppb	23:11:33
1	Sr 421.552†	79353.3	81929.5	517.52 ug/L	517.52 ppb	23:11:33
1	Sc 361.383	853904.1	853904.1	97.894 %		23:12:51
1	Y 371.029	706478.7	706478.7	96.318 %		23:12:51
1	Ag 328.068†	113615.5	115680.7	517.93 ug/L	517.93 ppb	23:12:56
1	As 188.979†	1199.5	1248.7	511.37 ug/L	511.37 ppb	23:13:16
1	B 249.677†	22238.5	23353.8	506.84 ug/L	506.84 ppb	23:12:56
1	Ba 233.527†	66558.1	67999.0	512.66 ug/L	512.66 ppb	23:12:56
1	Be 313.107†	1408907.5	1443545.3	513.80 ug/L	513.80 ppb	23:12:51
1	Cd 226.502†	47172.5	48390.1	512.34 ug/L	512.34 ppb	23:12:56
1	Co 228.616†	25418.0	26043.3	511.04 ug/L	511.04 ppb	23:12:56
1	Cr 267.716†	46944.9	47881.8	512.28 ug/L	512.28 ppb	23:12:56
1	Cu 324.752†	178261.6	175551.0	509.18 ug/L	509.18 ppb	23:12:56
1	Mn 257.610†	475322.0	485068.4	513.55 ug/L	513.55 ppb	23:12:51
1	Mo 202.031†	7477.3	7617.6	514.78 ug/L	514.78 ppb	23:13:16
1	Ni 231.604†	21178.7	21540.1	512.43 ug/L	512.43 ppb	23:12:56
1	P 214.914†	4558.9	4445.5	2459.8 ug/L	2459.8 ppb	23:13:16
1	Pb 220.353†	4252.6	4411.5	516.25 ug/L	516.25 ppb	23:13:16
1	S 181.975 Axial†	803.0	775.8	1033.3 ug/L	1033.3 ppb	23:13:16
1	Sb 206.836†	1532.6	1536.3	526.57 ug/L	526.57 ppb	23:13:16
1	Se 196.026†	818.7	860.5	542.48 ug/L	542.48 ppb	23:13:16
1	Si 251.611†	82775.7	84113.2	2568.9 ug/L	2568.9 ppb	23:12:56
1	Sn 189.927†	3005.4	3069.3	515.67 ug/L	515.67 ppb	23:13:16
1	Ti 334.940†	315408.7	323545.3	502.16 ug/L	502.16 ppb	23:12:56
1	Tl 190.801†	1688.5	1764.3	517.28 ug/L	517.28 ppb	23:13:16
1	U 409.014†	15507.5	17918.6	507.43 ug/L	507.43 ppb	23:12:56
1	V 292.402†	74995.3	77999.8	516.63 ug/L	516.63 ppb	23:12:56
1	Zn 213.857†	56634.9	56856.7	509.57 ug/L	509.57 ppb	23:12:56
1	SiO2†	84218.4	85571.5	5588.2 ug/L	5588.2 ppb	23:14:23
2	Sc Radial	5268.6	5268.6	99.2 %		23:11:58
2	Y RADIAL	5592.9	5592.9	98.60 %		23:11:58
2	Al 396.153Radial†	6973.2	7045.2	5111.9 ug/L	5111.9 ppb	23:11:58
2	Ca 317.933Radial†	3292.0	3296.5	5009.9 ug/L	5009.9 ppb	23:12:18
2	Fe 238.204 Radial†	613.0	607.7	5025.1 ug/L	5025.1 ppb	23:12:18
2	K 766.490 Radial†	31341.2	28940.8	5235.9 ug/L	5235.9 ppb	23:11:58
2	Mg 279.077 IEC†	169.5	167.7	5241.4 ug/L	5241.4 ppb	23:12:18
2	Na 589.592 Radial†	33588.9	35472.0	10337 ug/L	10337 ppb	23:11:58
2	Sr 421.552†	81491.3	82121.3	518.74 ug/L	518.74 ppb	23:11:58
2	Sc 361.383	861584.1	861584.1	98.774 %		23:13:22
2	Y 371.029	711973.1	711973.1	97.067 %		23:13:22
2	Ag 328.068†	113917.5	114952.0	514.61 ug/L	514.61 ppb	23:13:27
2	As 188.979†	1210.0	1248.4	511.19 ug/L	511.19 ppb	23:13:47
2	B 249.677†	22183.6	23095.7	501.25 ug/L	501.25 ppb	23:13:27
2	Ba 233.527†	66728.0	67564.9	509.38 ug/L	509.38 ppb	23:13:27
2	Be 313.107†	1420400.1	1442351.6	513.36 ug/L	513.36 ppb	23:13:22
2	Cd 226.502†	47129.7	47917.2	507.35 ug/L	507.35 ppb	23:13:27
2	Co 228.616†	25536.1	25931.5	508.84 ug/L	508.84 ppb	23:13:27
2	Cr 267.716†	46923.9	47433.0	507.48 ug/L	507.48 ppb	23:13:27
2	Cu 324.752†	178741.3	174413.4	505.87 ug/L	505.87 ppb	23:13:27
2	Mn 257.610†	480883.0	486370.3	514.91 ug/L	514.91 ppb	23:13:22
2	Mo 202.031†	7484.6	7556.9	510.66 ug/L	510.66 ppb	23:13:47
2	Ni 231.604†	21206.9	21375.9	508.52 ug/L	508.52 ppb	23:13:27

2	P 214.914†	4568.7	4413.9	2442.4 ug/L	2442.4 ppb	23:13:47
2	Pb 220.353†	4212.7	4332.3	507.03 ug/L	507.03 ppb	23:13:47
2	S 181.975 Axial†	795.7	761.0	1013.6 ug/L	1013.6 ppb	23:13:47
2	Sb 206.836†	1536.3	1526.1	523.01 ug/L	523.01 ppb	23:13:47
2	Se 196.026†	799.9	834.0	525.69 ug/L	525.69 ppb	23:13:47
2	Si 251.611†	82953.0	83539.0	2551.4 ug/L	2551.4 ppb	23:13:27
2	Sn 189.927†	2997.7	3034.1	509.74 ug/L	509.74 ppb	23:13:47
2	Ti 334.940†	315830.9	321100.7	498.36 ug/L	498.36 ppb	23:13:27
2	Tl 190.801†	1677.8	1738.1	509.64 ug/L	509.64 ppb	23:13:47
2	U 409.014†	15478.1	17747.6	502.61 ug/L	502.61 ppb	23:13:27
2	V 292.402†	74956.2	77277.3	511.87 ug/L	511.87 ppb	23:13:27
2	Zn 213.857†	56691.6	56398.4	505.47 ug/L	505.47 ppb	23:13:27
2	SiO2†	83390.1	83966.1	5483.2 ug/L	5483.2 ppb	23:14:28
3	Sc Radial	5233.8	5233.8	98.6 %		23:12:24
3	Y RADIAL	5569.2	5569.2	98.18 %		23:12:24
3	Al 396.153Radial†	6869.9	6987.2	5069.8 ug/L	5069.8 ppb	23:12:24
3	Ca 317.933Radial†	3341.1	3368.4	5119.1 ug/L	5119.1 ppb	23:12:44
3	Fe 238.204 Radial†	630.6	629.6	5206.1 ug/L	5206.1 ppb	23:12:44
3	K 766.490 Radial†	31055.2	28861.1	5221.4 ug/L	5221.4 ppb	23:12:24
3	Mg 279.077 IEC†	172.0	171.3	5354.1 ug/L	5354.1 ppb	23:12:44
3	Na 589.592 Radial†	33129.3	35231.1	10267 ug/L	10267 ppb	23:12:24
3	Sr 421.552†	80504.1	81666.6	515.86 ug/L	515.86 ppb	23:12:24
3	Sc 361.383	860369.0	860369.0	98.635 %		23:13:53
3	Y 371.029	712469.5	712469.5	97.134 %		23:13:53
3	Ag 328.068†	115422.4	116640.5	522.21 ug/L	522.21 ppb	23:13:58
3	As 188.979†	1208.3	1248.5	511.31 ug/L	511.31 ppb	23:14:18
3	B 249.677†	22566.3	23515.4	510.36 ug/L	510.36 ppb	23:13:58
3	Ba 233.527†	67454.3	68396.7	515.66 ug/L	515.66 ppb	23:13:58
3	Be 313.107†	1402221.2	1425952.0	507.56 ug/L	507.56 ppb	23:13:53
3	Cd 226.502†	47819.7	48684.1	515.46 ug/L	515.46 ppb	23:13:58
3	Co 228.616†	25813.0	26248.7	515.05 ug/L	515.05 ppb	23:13:58
3	Cr 267.716†	47485.0	48069.0	514.29 ug/L	514.29 ppb	23:13:58
3	Cu 324.752†	181413.4	177378.1	514.48 ug/L	514.48 ppb	23:13:58
3	Mn 257.610†	473104.1	479171.4	507.31 ug/L	507.31 ppb	23:13:53
3	Mo 202.031†	7440.8	7523.3	508.41 ug/L	508.41 ppb	23:14:18
3	Ni 231.604†	21458.6	21661.3	515.31 ug/L	515.31 ppb	23:13:58
3	P 214.914†	4516.2	4367.2	2413.6 ug/L	2413.6 ppb	23:14:18
3	Pb 220.353†	4209.6	4335.2	507.33 ug/L	507.33 ppb	23:14:18
3	S 181.975 Axial†	790.8	757.2	1008.5 ug/L	1008.5 ppb	23:14:18
3	Sb 206.836†	1530.6	1522.5	521.77 ug/L	521.77 ppb	23:14:18
3	Se 196.026†	795.1	830.3	524.00 ug/L	524.00 ppb	23:14:18
3	Si 251.611†	83908.3	84626.1	2584.7 ug/L	2584.7 ppb	23:13:58
3	Sn 189.927†	2985.1	3025.6	508.33 ug/L	508.33 ppb	23:14:18
3	Ti 334.940†	320050.3	325830.1	505.70 ug/L	505.70 ppb	23:13:58
3	Tl 190.801†	1669.4	1732.0	507.86 ug/L	507.86 ppb	23:14:18
3	U 409.014†	15729.4	18024.5	510.44 ug/L	510.44 ppb	23:13:58
3	V 292.402†	76033.0	78476.2	519.66 ug/L	519.66 ppb	23:13:58
3	Zn 213.857†	57333.4	57130.1	512.02 ug/L	512.02 ppb	23:13:58
3	SiO2†	84083.7	84788.5	5537.1 ug/L	5537.1 ppb	23:14:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	858619.1	98.434 %	0.4733			0.48%
Sc Radial	5214.9	98.2 %	1.23			1.25%
Y 371.029	710307.1	96.839 %	0.4533			0.47%
Y RADIAL	5547.3	97.80 %	1.051			1.07%
Ag 328.068†	115757.7	518.25 ug/L	3.807	518.25 ppb	3.807	0.73%
QC value within limits for Ag 328.068 Recovery = 103.65%						
Al 396.153Radial†	7027.5	5099.0 ug/L	25.35	5099.0 ppb	25.35	0.50%
QC value within limits for Al 396.153Radial Recovery = 101.98%						
As 188.979†	1248.5	511.29 ug/L	0.091	511.29 ppb	0.091	0.02%
QC value within limits for As 188.979 Recovery = 102.26%						
B 249.677†	23321.6	506.15 ug/L	4.591	506.15 ppb	4.591	0.91%
QC value within limits for B 249.677 Recovery = 101.23%						
Ba 233.527†	67986.9	512.56 ug/L	3.140	512.56 ppb	3.140	0.61%
QC value within limits for Ba 233.527 Recovery = 102.51%						
Be 313.107†	1437283.0	511.57 ug/L	3.485	511.57 ppb	3.485	0.68%
QC value within limits for Be 313.107 Recovery = 102.31%						
Ca 317.933Radial†	3360.4	5107.0 ug/L	91.69	5107.0 ppb	91.69	1.80%

QC value within limits for Ca 317.933 Radial Recovery = 102.14%							
Cd 226.502†	48330.5	511.71 ug/L	4.090	511.71 ppb	4.090	0.80%	
QC value within limits for Cd 226.502 Recovery = 102.34%							
Co 228.616†	26074.5	511.64 ug/L	3.144	511.64 ppb	3.144	0.61%	
QC value within limits for Co 228.616 Recovery = 102.33%							
Cr 267.716†	47794.6	511.35 ug/L	3.498	511.35 ppb	3.498	0.68%	
QC value within limits for Cr 267.716 Recovery = 102.27%							
Cu 324.752†	175780.8	509.84 ug/L	4.340	509.84 ppb	4.340	0.85%	
QC value within limits for Cu 324.752 Recovery = 101.97%							
Fe 238.204 Radial†	623.2	5152.9 ug/L	111.20	5152.9 ppb	111.20	2.16%	
QC value within limits for Fe 238.204 Radial Recovery = 103.06%							
K 766.490 Radial†	28960.7	5239.4 ug/L	20.03	5239.4 ppb	20.03	0.38%	
QC value within limits for K 766.490 Radial Recovery = 104.79%							
Mg 279.077 IEC†	170.9	5343.7 ug/L	97.47	5343.7 ppb	97.47	1.82%	
QC value within limits for Mg 279.077 IEC Recovery = 106.87%							
Mn 257.610†	483536.7	511.92 ug/L	4.054	511.92 ppb	4.054	0.79%	
QC value within limits for Mn 257.610 Recovery = 102.38%							
Mo 202.031†	7565.9	511.28 ug/L	3.230	511.28 ppb	3.230	0.63%	
QC value within limits for Mo 202.031 Recovery = 102.26%							
Na 589.592 Radial†	35407.9	10319 ug/L	45.2	10319 ppb	45.2	0.44%	
QC value within limits for Na 589.592 Radial Recovery = 103.19%							
Ni 231.604†	21525.8	512.09 ug/L	3.409	512.09 ppb	3.409	0.67%	
QC value within limits for Ni 231.604 Recovery = 102.42%							
P 214.914†	4408.9	2438.6 ug/L	23.30	2438.6 ppb	23.30	0.96%	
QC value within limits for P 214.914 Recovery = 97.54%							
Pb 220.353†	4359.7	510.20 ug/L	5.240	510.20 ppb	5.240	1.03%	
QC value within limits for Pb 220.353 Recovery = 102.04%							
S 181.975 Axial†	764.7	1018.5 ug/L	13.09	1018.5 ppb	13.09	1.29%	
QC value within limits for S 181.975 Axial Recovery = 101.85%							
Sb 206.836†	1528.3	523.78 ug/L	2.490	523.78 ppb	2.490	0.48%	
QC value within limits for Sb 206.836 Recovery = 104.76%							
Se 196.026†	841.6	530.72 ug/L	10.216	530.72 ppb	10.216	1.92%	
QC value within limits for Se 196.026 Recovery = 106.14%							
Si 251.611†	84092.8	2568.3 ug/L	16.66	2568.3 ppb	16.66	0.65%	
QC value within limits for Si 251.611 Recovery = 102.73%							
Sn 189.927†	3043.0	511.24 ug/L	3.898	511.24 ppb	3.898	0.76%	
QC value within limits for Sn 189.927 Recovery = 102.25%							
Sr 421.552†	81905.8	517.37 ug/L	1.442	517.37 ppb	1.442	0.28%	
QC value within limits for Sr 421.552 Recovery = 103.47%							
Ti 334.940†	323492.0	502.07 ug/L	3.672	502.07 ppb	3.672	0.73%	
QC value within limits for Ti 334.940 Recovery = 100.41%							
Tl 190.801†	1744.8	511.60 ug/L	5.005	511.60 ppb	5.005	0.98%	
QC value within limits for Tl 190.801 Recovery = 102.32%							
U 409.014†	17896.9	506.83 ug/L	3.952	506.83 ppb	3.952	0.78%	
QC value within limits for U 409.014 Recovery = 101.37%							
V 292.402†	77917.8	516.05 ug/L	3.924	516.05 ppb	3.924	0.76%	
QC value within limits for V 292.402 Recovery = 103.21%							
Zn 213.857†	56795.1	509.02 ug/L	3.306	509.02 ppb	3.306	0.65%	
QC value within limits for Zn 213.857 Recovery = 101.80%							
SiO2†	84775.4	5536.1 ug/L	52.50	5536.1 ppb	52.50	0.95%	
QC value within limits for SiO2 Recovery = 103.53%							
All analyte(s) passed QC.							

Sequence No.: 72

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/13/2010 23:16:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5237.8	5237.8	98.6 %		23:18:35
1	Y RADIAL	5583.8	5583.8	98.44 %		23:18:35
1	Al 396.153Radial†	-2.6	14.1	10.291 ug/L	10.291 ppb	23:18:35
1	Ca 317.933Radial†	13.8	-7.6	-11.541 ug/L	-11.541 ppb	23:18:55
1	Fe 238.204 Radial†	8.6	-1.5	-12.098 ug/L	-12.098 ppb	23:18:55
1	K 766.490 Radial†	2916.9	308.7	55.915 ug/L	55.915 ppb	23:18:35
1	Mg 279.077 IEC†	2.0	-1.2	-37.265 ug/L	-37.265 ppb	23:18:55
1	Na 589.592 Radial†	-1572.3	22.8	6.6581 ug/L	6.6581 ppb	23:18:35
1	Sr 421.552†	-18.4	-34.4	-0.2172 ug/L	-0.2172 ppb	23:18:35
1	Sc 361.383	833002.6	833002.6	95.498 %		23:19:52
1	Y 371.029	702363.0	702363.0	95.756 %		23:19:52
1	Ag 328.068†	363.6	1.5	0.0059 ug/L	0.0059 ppb	23:19:52
1	As 188.979†	-21.0	1.5	0.5977 ug/L	0.5977 ppb	23:20:12
1	B 249.677†	-330.8	290.4	6.3340 ug/L	6.3340 ppb	23:20:12
1	Ba 233.527†	-1.2	7.5	0.0550 ug/L	0.0550 ppb	23:20:12
1	Be 313.107†	-4217.3	-91.7	-0.0330 ug/L	-0.0330 ppb	23:19:52
1	Cd 226.502†	-173.8	20.6	0.2180 ug/L	0.2180 ppb	23:20:12
1	Co 228.616†	-80.7	-6.1	-0.1195 ug/L	-0.1195 ppb	23:20:12
1	Cr 267.716†	89.4	20.4	0.2192 ug/L	0.2192 ppb	23:20:12
1	Cu 324.752†	6435.9	193.3	0.5638 ug/L	0.5638 ppb	23:19:52
1	Mn 257.610†	452.3	-6.8	-0.0068 ug/L	-0.0068 ppb	23:20:12
1	Mo 202.031†	19.3	-0.3	-0.0238 ug/L	-0.0238 ppb	23:20:12
1	Ni 231.604†	95.5	5.7	0.1365 ug/L	0.1365 ppb	23:20:12
1	P 214.914†	218.8	17.6	10.065 ug/L	10.065 ppb	23:20:12
1	Pb 220.353†	-56.6	8.1	0.9470 ug/L	0.9470 ppb	23:20:12
1	S 181.975 Axial†	45.4	3.0	3.9542 ug/L	3.9542 ppb	23:20:12
1	Sb 206.836†	38.2	10.8	3.5624 ug/L	3.5624 ppb	23:20:12
1	Se 196.026†	-28.6	-5.8	-3.5681 ug/L	-3.5681 ppb	23:20:12
1	Si 251.611†	472.8	51.7	1.5819 ug/L	1.5819 ppb	23:20:12
1	Sn 189.927†	4.4	3.8	0.6352 ug/L	0.6352 ppb	23:20:12
1	Ti 334.940†	-1419.4	-135.9	-0.2066 ug/L	-0.2066 ppb	23:19:52
1	Tl 190.801†	-34.8	3.0	0.8828 ug/L	0.8828 ppb	23:20:12
1	U 409.014†	-2210.5	-237.3	-6.7418 ug/L	-6.7418 ppb	23:19:52
1	V 292.402†	-1412.3	-87.9	-0.5867 ug/L	-0.5867 ppb	23:19:52
1	Zn 213.857†	995.0	45.2	0.4082 ug/L	0.4082 ppb	23:20:12
1	SiO2†	507.3	72.3	4.7341 ug/L	4.7341 ppb	23:21:08
2	Sc Radial	5049.5	5049.5	95.1 %		23:19:00
2	Y RADIAL	5398.1	5398.1	95.16 %		23:19:00
2	Al 396.153Radial†	-25.9	-10.5	-7.5814 ug/L	-7.5814 ppb	23:19:00
2	Ca 317.933Radial†	21.8	1.4	2.0858 ug/L	2.0858 ppb	23:19:20
2	Fe 238.204 Radial†	8.4	-1.4	-11.362 ug/L	-11.362 ppb	23:19:20
2	K 766.490 Radial†	2858.6	357.7	64.795 ug/L	64.795 ppb	23:19:00
2	Mg 279.077 IEC†	4.4	1.4	44.213 ug/L	44.213 ppb	23:19:20
2	Na 589.592 Radial†	-1577.8	-42.3	-12.323 ug/L	-12.323 ppb	23:19:00
2	Sr 421.552†	-13.4	-29.9	-0.1886 ug/L	-0.1886 ppb	23:19:00
2	Sc 361.383	840665.0	840665.0	96.376 %		23:20:17
2	Y 371.029	706351.1	706351.1	96.300 %		23:20:17
2	Ag 328.068†	310.0	-57.6	-0.2575 ug/L	-0.2575 ppb	23:20:17
2	As 188.979†	-29.9	-7.6	-3.0853 ug/L	-3.0853 ppb	23:20:37
2	B 249.677†	-321.0	303.7	6.6232 ug/L	6.6232 ppb	23:20:37
2	Ba 233.527†	-0.7	8.1	0.0593 ug/L	0.0593 ppb	23:20:37
2	Be 313.107†	-4203.0	-36.6	-0.0136 ug/L	-0.0136 ppb	23:20:17
2	Cd 226.502†	-181.4	14.4	0.1526 ug/L	0.1526 ppb	23:20:37
2	Co 228.616†	-88.5	-13.5	-0.2650 ug/L	-0.2650 ppb	23:20:37
2	Cr 267.716†	70.5	-0.0	0.0008 ug/L	0.0008 ppb	23:20:37
2	Cu 324.752†	6397.2	91.7	0.2684 ug/L	0.2684 ppb	23:20:17
2	Mn 257.610†	447.5	-16.0	-0.0199 ug/L	-0.0199 ppb	23:20:37
2	Mo 202.031†	8.1	-12.1	-0.8203 ug/L	-0.8203 ppb	23:20:37
2	Ni 231.604†	100.9	10.5	0.2499 ug/L	0.2499 ppb	23:20:37

2	P 214.914†	217.5	14.2	8.0997 ug/L	8.0997 ppb	23:20:37
2	Pb 220.353†	-67.1	-2.3	-0.2719 ug/L	-0.2719 ppb	23:20:37
2	S 181.975 Axial†	52.9	10.4	13.817 ug/L	13.817 ppb	23:20:37
2	Sb 206.836†	41.9	14.3	4.7059 ug/L	4.7059 ppb	23:20:37
2	Se 196.026†	-28.2	-5.1	-3.1475 ug/L	-3.1475 ppb	23:20:37
2	Si 251.611†	495.0	70.1	2.1568 ug/L	2.1568 ppb	23:20:37
2	Sn 189.927†	-1.3	-2.2	-0.3616 ug/L	-0.3616 ppb	23:20:37
2	Ti 334.940†	-1478.0	-183.2	-0.2854 ug/L	-0.2854 ppb	23:20:17
2	Tl 190.801†	-33.7	4.6	1.3255 ug/L	1.3255 ppb	23:20:37
2	U 409.014†	-2184.9	-189.6	-5.3864 ug/L	-5.3864 ppb	23:20:17
2	V 292.402†	-1413.1	-75.4	-0.5117 ug/L	-0.5117 ppb	23:20:17
2	Zn 213.857†	989.3	29.8	0.2683 ug/L	0.2683 ppb	23:20:37
2	SiO2†	496.7	56.5	3.7219 ug/L	3.7219 ppb	23:21:13
3	Sc Radial	5140.1	5140.1	96.8 %		23:19:25
3	Y RADIAL	5517.8	5517.8	97.28 %		23:19:25
3	Al 396.153Radial†	-26.7	-10.8	-7.8597 ug/L	-7.8597 ppb	23:19:25
3	Ca 317.933Radial†	16.2	-4.8	-7.2777 ug/L	-7.2777 ppb	23:19:45
3	Fe 238.204 Radial†	10.9	1.1	8.6750 ug/L	8.6750 ppb	23:19:45
3	K 766.490 Radial†	2868.5	314.9	57.050 ug/L	57.050 ppb	23:19:25
3	Mg 279.077 IEC†	2.4	-0.8	-23.908 ug/L	-23.908 ppb	23:19:45
3	Na 589.592 Radial†	-1600.8	-36.9	-10.752 ug/L	-10.752 ppb	23:19:25
3	Sr 421.552†	29.1	14.3	0.0905 ug/L	0.0905 ppb	23:19:25
3	Sc 361.383	842888.2	842888.2	96.631 %		23:20:42
3	Y 371.029	709902.7	709902.7	96.784 %		23:20:42
3	Ag 328.068†	327.6	-40.2	-0.1774 ug/L	-0.1774 ppb	23:20:42
3	As 188.979†	-22.0	0.6	0.2601 ug/L	0.2601 ppb	23:21:02
3	B 249.677†	-328.3	297.0	6.4727 ug/L	6.4727 ppb	23:21:02
3	Ba 233.527†	4.5	13.5	0.1008 ug/L	0.1008 ppb	23:21:02
3	Be 313.107†	-4168.5	10.6	0.0035 ug/L	0.0035 ppb	23:20:42
3	Cd 226.502†	-183.0	13.2	0.1396 ug/L	0.1396 ppb	23:21:02
3	Co 228.616†	-66.8	9.3	0.1821 ug/L	0.1821 ppb	23:21:02
3	Cr 267.716†	86.3	16.1	0.1721 ug/L	0.1721 ppb	23:21:02
3	Cu 324.752†	6373.4	49.6	0.1441 ug/L	0.1441 ppb	23:20:42
3	Mn 257.610†	463.0	-1.3	0.0005 ug/L	0.0005 ppb	23:21:02
3	Mo 202.031†	16.8	-3.2	-0.2123 ug/L	-0.2123 ppb	23:21:02
3	Ni 231.604†	101.0	10.3	0.2448 ug/L	0.2448 ppb	23:21:02
3	P 214.914†	208.7	4.5	2.5712 ug/L	2.5712 ppb	23:21:02
3	Pb 220.353†	-68.2	-3.3	-0.3869 ug/L	-0.3869 ppb	23:21:02
3	S 181.975 Axial†	45.7	2.8	3.7489 ug/L	3.7489 ppb	23:21:02
3	Sb 206.836†	29.6	1.5	0.5068 ug/L	0.5068 ppb	23:21:02
3	Se 196.026†	-26.3	-3.1	-1.8532 ug/L	-1.8532 ppb	23:21:02
3	Si 251.611†	482.3	55.7	1.7078 ug/L	1.7078 ppb	23:21:02
3	Sn 189.927†	11.3	10.9	1.8352 ug/L	1.8352 ppb	23:21:02
3	Ti 334.940†	-1382.6	-80.5	-0.1241 ug/L	-0.1241 ppb	23:20:42
3	Tl 190.801†	-27.9	10.6	3.0910 ug/L	3.0910 ppb	23:21:02
3	U 409.014†	-1997.2	10.6	0.2996 ug/L	0.2996 ppb	23:20:42
3	V 292.402†	-1384.7	-42.1	-0.2791 ug/L	-0.2791 ppb	23:20:42
3	Zn 213.857†	988.6	26.3	0.2355 ug/L	0.2355 ppb	23:21:02
3	SiO2†	494.1	52.4	3.4387 ug/L	3.4387 ppb	23:21:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838851.9	96.168 %		0.5946			0.62%
Sc Radial	5142.5	96.8 %		1.77			1.83%
Y 371.029	706205.6	96.280 %		0.5142			0.53%
Y RADIAL	5499.9	96.96 %		1.660			1.71%
Ag 328.068†	-32.1	-0.1430 ug/L		0.13500	-0.1430 ppb	0.13500	94.40%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-2.4	-1.7168 ug/L		10.39973	-1.7168 ppb	10.39973	605.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.8	-0.7425 ug/L		2.03591	-0.7425 ppb	2.03591	274.20%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	297.0	6.4766 ug/L		0.14461	6.4766 ppb	0.14461	2.23%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.7	0.0717 ug/L		0.02530	0.0717 ppb	0.02530	35.28%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-39.2	-0.0144 ug/L		0.01826	-0.0144 ppb	0.01826	126.83%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-3.7	-5.5776 ug/L		6.97062	-5.5776 ppb	6.97062	124.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	16.1	0.1700 ug/L	0.04203	0.1700 ppb	0.04203	24.72%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-3.4	-0.0675 ug/L	0.22806	-0.0675 ppb	0.22806	338.10%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	12.2	0.1307 ug/L	0.11492	0.1307 ppb	0.11492	87.92%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	111.5	0.3254 ug/L	0.21558	0.3254 ppb	0.21558	66.25%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.6	-4.9285 ug/L	11.78671	-4.9285 ppb	11.78671	239.15%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	327.1	59.253 ug/L	4.8329	59.253 ppb	4.8329	8.16%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.2	-5.6536 ug/L	43.69886	-5.6536 ppb	43.69886	772.94%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-8.0	-0.0087 ug/L	0.01031	-0.0087 ppb	0.01031	117.89%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-5.2	-0.3521 ug/L	0.41627	-0.3521 ppb	0.41627	118.21%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-18.8	-5.4723 ug/L	10.53453	-5.4723 ppb	10.53453	192.51%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	8.8	0.2104 ug/L	0.06407	0.2104 ppb	0.06407	30.45%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	12.1	6.9121 ug/L	3.88560	6.9121 ppb	3.88560	56.21%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	0.8	0.0961 ug/L	0.73914	0.0961 ppb	0.73914	769.28%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	5.4	7.1732 ug/L	5.75424	7.1732 ppb	5.75424	80.22%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	8.8	2.9250 ug/L	2.17087	2.9250 ppb	2.17087	74.22%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-4.7	-2.8563 ug/L	0.89377	-2.8563 ppb	0.89377	31.29%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	59.2	1.8155 ug/L	0.30219	1.8155 ppb	0.30219	16.65%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.2	0.7029 ug/L	1.09996	0.7029 ppb	1.09996	156.48%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-16.6	-0.1051 ug/L	0.17000	-0.1051 ppb	0.17000	161.75%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-133.2	-0.2054 ug/L	0.08062	-0.2054 ppb	0.08062	39.26%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	6.1	1.7664 ug/L	1.16825	1.7664 ppb	1.16825	66.14%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-138.8	-3.9428 ug/L	3.73606	-3.9428 ppb	3.73606	94.76%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-68.5	-0.4591 ug/L	0.16039	-0.4591 ppb	0.16039	34.93%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	33.8	0.3040 ug/L	0.09175	0.3040 ppb	0.09175	30.18%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	60.4	3.9649 ug/L	0.68106	3.9649 ppb	0.68106	17.18%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 82

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 00:27:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4969.2	4969.2	93.6 %		00:29:20
1	Y RADIAL	5282.0	5282.0	93.12 %		00:29:20
1	Al 396.153Radial†	6839.1	7325.4	5315.6 ug/L	5315.6 ppb	00:29:20
1	Ca 317.933Radial†	3332.4	3539.7	5379.4 ug/L	5379.4 ppb	00:29:40
1	Fe 238.204 Radial†	637.3	670.9	5546.8 ug/L	5546.8 ppb	00:29:40
1	K 766.490 Radial†	30810.3	30276.9	5477.4 ug/L	5477.4 ppb	00:29:20
1	Mg 279.077 IEC†	167.5	175.8	5495.0 ug/L	5495.0 ppb	00:29:40
1	Na 589.592 Radial†	34622.0	38615.9	11254 ug/L	11254 ppb	00:29:20
1	Sr 421.552†	81649.7	87239.7	551.07 ug/L	551.07 ppb	00:29:20
1	Sc 361.383	851000.7	851000.7	97.561 %		00:30:38
1	Y 371.029	703174.6	703174.6	95.867 %		00:30:38
1	Ag 328.068†	116037.5	118559.2	530.88 ug/L	530.88 ppb	00:30:43
1	As 188.979†	1230.7	1284.9	526.32 ug/L	526.32 ppb	00:31:03
1	B 249.677†	22392.6	23589.2	511.88 ug/L	511.88 ppb	00:30:43
1	Ba 233.527†	67865.4	69570.9	524.51 ug/L	524.51 ppb	00:30:43
1	Be 313.107†	1415673.9	1455391.1	518.05 ug/L	518.05 ppb	00:30:38
1	Cd 226.502†	47913.8	49314.3	522.10 ug/L	522.10 ppb	00:30:43
1	Co 228.616†	25989.7	26717.9	524.24 ug/L	524.24 ppb	00:30:43
1	Cr 267.716†	47690.7	48809.8	522.22 ug/L	522.22 ppb	00:30:43
1	Cu 324.752†	182120.7	180127.8	522.47 ug/L	522.47 ppb	00:30:43
1	Mn 257.610†	479731.5	491244.7	520.11 ug/L	520.11 ppb	00:30:38
1	Mo 202.031†	7574.0	7742.7	523.25 ug/L	523.25 ppb	00:31:03
1	Ni 231.604†	21494.9	21938.1	521.90 ug/L	521.90 ppb	00:30:43
1	P 214.914†	4631.3	4535.6	2508.9 ug/L	2508.9 ppb	00:31:03
1	Pb 220.353†	4320.7	4496.0	526.14 ug/L	526.14 ppb	00:31:03
1	S 181.975 Axial†	816.6	792.5	1055.5 ug/L	1055.5 ppb	00:31:03
1	Sb 206.836†	1569.8	1579.8	541.23 ug/L	541.23 ppb	00:31:03
1	Se 196.026†	812.7	857.2	541.55 ug/L	541.55 ppb	00:31:03
1	Si 251.611†	84348.6	86014.0	2627.0 ug/L	2627.0 ppb	00:30:43
1	Sn 189.927†	3045.1	3120.4	524.28 ug/L	524.28 ppb	00:31:03
1	Ti 334.940†	327756.4	337300.9	523.52 ug/L	523.52 ppb	00:30:38
1	Tl 190.801†	1711.5	1793.8	526.00 ug/L	526.00 ppb	00:31:03
1	U 409.014†	15792.6	18264.8	517.21 ug/L	517.21 ppb	00:30:43
1	V 292.402†	76436.7	79738.6	528.06 ug/L	528.06 ppb	00:30:43
1	Zn 213.857†	57613.4	58057.0	520.31 ug/L	520.31 ppb	00:30:43
1	SiO2†	84142.4	85787.1	5602.0 ug/L	5602.0 ppb	00:32:11
2	Sc Radial	5128.6	5128.6	96.6 %		00:29:45
2	Y RADIAL	5434.5	5434.5	95.81 %		00:29:45
2	Al 396.153Radial†	6851.8	7111.3	5160.1 ug/L	5160.1 ppb	00:29:45
2	Ca 317.933Radial†	3359.8	3457.3	5254.3 ug/L	5254.3 ppb	00:30:05
2	Fe 238.204 Radial†	638.3	650.8	5380.7 ug/L	5380.7 ppb	00:30:05
2	K 766.490 Radial†	31092.5	29545.7	5345.1 ug/L	5345.1 ppb	00:29:45
2	Mg 279.077 IEC†	170.5	173.3	5418.0 ug/L	5418.0 ppb	00:30:05
2	Na 589.592 Radial†	34703.3	37550.1	10943 ug/L	10943 ppb	00:29:45
2	Sr 421.552†	81910.3	84797.2	535.64 ug/L	535.64 ppb	00:29:45
2	Sc 361.383	861388.3	861388.3	98.752 %		00:31:09
2	Y 371.029	712754.9	712754.9	97.173 %		00:31:09
2	Ag 328.068†	116245.8	117335.9	525.36 ug/L	525.36 ppb	00:31:14
2	As 188.979†	1212.9	1251.7	512.77 ug/L	512.77 ppb	00:31:34
2	B 249.677†	22544.8	23466.5	509.25 ug/L	509.25 ppb	00:31:14
2	Ba 233.527†	68002.5	68870.9	519.23 ug/L	519.23 ppb	00:31:14
2	Be 313.107†	1427000.4	1449362.2	515.90 ug/L	515.90 ppb	00:31:09
2	Cd 226.502†	48242.1	49054.5	519.36 ug/L	519.36 ppb	00:31:14
2	Co 228.616†	26073.3	26481.3	519.59 ug/L	519.59 ppb	00:31:14
2	Cr 267.716†	47892.7	48424.9	518.10 ug/L	518.10 ppb	00:31:14
2	Cu 324.752†	182025.2	177780.0	515.65 ug/L	515.65 ppb	00:31:14
2	Mn 257.610†	481396.9	487001.3	515.61 ug/L	515.61 ppb	00:31:09
2	Mo 202.031†	7508.8	7583.2	512.47 ug/L	512.47 ppb	00:31:34
2	Ni 231.604†	21655.4	21834.9	519.44 ug/L	519.44 ppb	00:31:14

2	P 214.914†	4577.9	4424.3	2446.2 ug/L	2446.2 ppb	00:31:34
2	Pb 220.353†	4256.1	4377.2	512.24 ug/L	512.24 ppb	00:31:34
2	S 181.975 Axial†	804.1	769.7	1025.2 ug/L	1025.2 ppb	00:31:34
2	Sb 206.836†	1550.9	1541.3	528.08 ug/L	528.08 ppb	00:31:34
2	Se 196.026†	826.3	860.8	543.20 ug/L	543.20 ppb	00:31:34
2	Si 251.611†	84448.1	85072.1	2598.3 ug/L	2598.3 ppb	00:31:14
2	Sn 189.927†	3014.0	3051.3	512.67 ug/L	512.67 ppb	00:31:34
2	Ti 334.940†	329466.4	334981.3	519.91 ug/L	519.91 ppb	00:31:09
2	Tl 190.801†	1692.6	1753.5	514.23 ug/L	514.23 ppb	00:31:34
2	U 409.014†	15873.0	18151.0	514.01 ug/L	514.01 ppb	00:31:14
2	V 292.402†	76587.3	78946.3	522.75 ug/L	522.75 ppb	00:31:14
2	Zn 213.857†	57813.4	57547.4	515.74 ug/L	515.74 ppb	00:31:14
2	SiO2†	83657.0	84255.6	5502.1 ug/L	5502.1 ppb	00:32:16
3	Sc Radial	4577.1	4577.1	86.2 %		00:30:10
3	Y RADIAL	4858.7	4858.7	85.66 %		00:30:10
3	Al 396.153Radial†	6112.4	7108.3	5157.3 ug/L	5157.3 ppb	00:30:10
3	Ca 317.933Radial†	3363.3	3880.5	5897.4 ug/L	5897.4 ppb	00:30:30
3	Fe 238.204 Radial†	638.0	730.1	6034.6 ug/L	6034.6 ppb	00:30:30
3	K 766.490 Radial†	27962.7	29793.4	5389.8 ug/L	5389.8 ppb	00:30:10
3	Mg 279.077 IEC†	171.6	195.8	6121.0 ug/L	6121.0 ppb	00:30:30
3	Na 589.592 Radial†	30756.6	37300.5	10870 ug/L	10870 ppb	00:30:10
3	Sr 421.552†	72869.7	84527.1	533.93 ug/L	533.93 ppb	00:30:10
3	Sc 361.383	847024.8	847024.8	97.105 %		00:31:40
3	Y 371.029	700038.8	700038.8	95.440 %		00:31:40
3	Ag 328.068†	115988.5	119067.1	533.29 ug/L	533.29 ppb	00:31:45
3	As 188.979†	1226.7	1286.7	527.11 ug/L	527.11 ppb	00:32:05
3	B 249.677†	22470.7	23777.4	515.90 ug/L	515.90 ppb	00:31:45
3	Ba 233.527†	67916.7	69950.2	527.38 ug/L	527.38 ppb	00:31:45
3	Be 313.107†	1404029.6	1450211.0	516.20 ug/L	516.20 ppb	00:31:40
3	Cd 226.502†	48044.3	49679.2	525.92 ug/L	525.92 ppb	00:31:45
3	Co 228.616†	26001.3	26854.9	526.93 ug/L	526.93 ppb	00:31:45
3	Cr 267.716†	47668.9	49016.8	524.44 ug/L	524.44 ppb	00:31:45
3	Cu 324.752†	181492.7	180357.3	523.16 ug/L	523.16 ppb	00:31:45
3	Mn 257.610†	475223.8	488910.8	517.66 ug/L	517.66 ppb	00:31:40
3	Mo 202.031†	7558.8	7763.6	524.70 ug/L	524.70 ppb	00:32:05
3	Ni 231.604†	21586.7	22136.0	526.61 ug/L	526.61 ppb	00:31:45
3	P 214.914†	4622.8	4549.1	2516.2 ug/L	2516.2 ppb	00:32:05
3	Pb 220.353†	4277.3	4472.2	523.30 ug/L	523.30 ppb	00:32:05
3	S 181.975 Axial†	807.3	786.9	1048.1 ug/L	1048.1 ppb	00:32:05
3	Sb 206.836†	1567.6	1585.2	543.06 ug/L	543.06 ppb	00:32:05
3	Se 196.026†	815.3	863.8	547.17 ug/L	547.17 ppb	00:32:05
3	Si 251.611†	84317.9	86388.1	2638.4 ug/L	2638.4 ppb	00:31:45
3	Sn 189.927†	3035.0	3124.8	525.09 ug/L	525.09 ppb	00:32:05
3	Ti 334.940†	324112.5	335125.3	520.16 ug/L	520.16 ppb	00:31:40
3	Tl 190.801†	1698.4	1788.5	524.41 ug/L	524.41 ppb	00:32:05
3	U 409.014†	15787.7	18335.8	519.17 ug/L	519.17 ppb	00:31:45
3	V 292.402†	76258.0	79922.4	529.23 ug/L	529.23 ppb	00:31:45
3	Zn 213.857†	57672.1	58394.7	523.28 ug/L	523.28 ppb	00:31:45
3	SiO2†	84834.7	86904.9	5675.2 ug/L	5675.2 ppb	00:32:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853137.9	97.806 %	0.8502			0.87%
Sc Radial	4891.7	92.1 %	5.34			5.80%
Y 371.029	705322.8	96.160 %	0.9032			0.94%
Y RADIAL	5191.7	91.53 %	5.259			5.75%
Ag 328.068†	118320.7	529.84 ug/L	4.063	529.84 ppb	4.063	0.77%
QC value within limits for Ag 328.068 Recovery = 105.97%						
Al 396.153Radial†	7181.7	5211.0 ug/L	90.64	5211.0 ppb	90.64	1.74%
QC value within limits for Al 396.153Radial Recovery = 104.22%						
As 188.979†	1274.4	522.07 ug/L	8.056	522.07 ppb	8.056	1.54%
QC value within limits for As 188.979 Recovery = 104.41%						
B 249.677†	23611.0	512.34 ug/L	3.349	512.34 ppb	3.349	0.65%
QC value within limits for B 249.677 Recovery = 102.47%						
Ba 233.527†	69464.0	523.71 ug/L	4.135	523.71 ppb	4.135	0.79%
QC value within limits for Ba 233.527 Recovery = 104.74%						
Be 313.107†	1451654.8	516.72 ug/L	1.164	516.72 ppb	1.164	0.23%
QC value within limits for Be 313.107 Recovery = 103.34%						
Ca 317.933Radial†	3625.8	5510.3 ug/L	340.96	5510.3 ppb	340.96	6.19%

QC value greater than the upper limit for Ca 317.933Radial Recovery = 110.21%							
Cd 226.502†	49349.3	522.46 ug/L	3.291	522.46 ppb	3.291	0.63%	
QC value within limits for Cd 226.502 Recovery = 104.49%							
Co 228.616†	26684.7	523.59 ug/L	3.718	523.59 ppb	3.718	0.71%	
QC value within limits for Co 228.616 Recovery = 104.72%							
Cr 267.716†	48750.5	521.59 ug/L	3.220	521.59 ppb	3.220	0.62%	
QC value within limits for Cr 267.716 Recovery = 104.32%							
Cu 324.752†	179421.7	520.42 ug/L	4.149	520.42 ppb	4.149	0.80%	
QC value within limits for Cu 324.752 Recovery = 104.08%							
Fe 238.204 Radial†	683.9	5654.0 ug/L	339.90	5654.0 ppb	339.90	6.01%	
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 113.08%							
K 766.490 Radial†	29872.0	5404.1 ug/L	67.29	5404.1 ppb	67.29	1.25%	
QC value within limits for K 766.490 Radial Recovery = 108.08%							
Mg 279.077 IEC†	181.6	5678.0 ug/L	385.54	5678.0 ppb	385.54	6.79%	
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 113.56%							
Mn 257.610†	489052.3	517.79 ug/L	2.254	517.79 ppb	2.254	0.44%	
QC value within limits for Mn 257.610 Recovery = 103.56%							
Mo 202.031†	7696.5	520.14 ug/L	6.685	520.14 ppb	6.685	1.29%	
QC value within limits for Mo 202.031 Recovery = 104.03%							
Na 589.592 Radial†	37822.1	11022 ug/L	203.6	11022 ppb	203.6	1.85%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.22%							
Ni 231.604†	21969.7	522.65 ug/L	3.641	522.65 ppb	3.641	0.70%	
QC value within limits for Ni 231.604 Recovery = 104.53%							
P 214.914†	4503.0	2490.4 ug/L	38.48	2490.4 ppb	38.48	1.55%	
QC value within limits for P 214.914 Recovery = 99.62%							
Pb 220.353†	4448.5	520.56 ug/L	7.344	520.56 ppb	7.344	1.41%	
QC value within limits for Pb 220.353 Recovery = 104.11%							
S 181.975 Axial†	783.0	1042.9 ug/L	15.79	1042.9 ppb	15.79	1.51%	
QC value within limits for S 181.975 Axial Recovery = 104.29%							
Sb 206.836†	1568.8	537.46 ug/L	8.172	537.46 ppb	8.172	1.52%	
QC value within limits for Sb 206.836 Recovery = 107.49%							
Se 196.026†	860.6	543.97 ug/L	2.887	543.97 ppb	2.887	0.53%	
QC value within limits for Se 196.026 Recovery = 108.79%							
Si 251.611†	85824.7	2621.2 ug/L	20.68	2621.2 ppb	20.68	0.79%	
QC value within limits for Si 251.611 Recovery = 104.85%							
Sn 189.927†	3098.8	520.68 ug/L	6.949	520.68 ppb	6.949	1.33%	
QC value within limits for Sn 189.927 Recovery = 104.14%							
Sr 421.552†	85521.3	540.21 ug/L	9.440	540.21 ppb	9.440	1.75%	
QC value within limits for Sr 421.552 Recovery = 108.04%							
Ti 334.940†	335802.5	521.20 ug/L	2.016	521.20 ppb	2.016	0.39%	
QC value within limits for Ti 334.940 Recovery = 104.24%							
Tl 190.801†	1778.6	521.55 ug/L	6.384	521.55 ppb	6.384	1.22%	
QC value within limits for Tl 190.801 Recovery = 104.31%							
U 409.014†	18250.5	516.80 ug/L	2.605	516.80 ppb	2.605	0.50%	
QC value within limits for U 409.014 Recovery = 103.36%							
V 292.402†	79535.8	526.68 ug/L	3.452	526.68 ppb	3.452	0.66%	
QC value within limits for V 292.402 Recovery = 105.34%							
Zn 213.857†	57999.7	519.78 ug/L	3.799	519.78 ppb	3.799	0.73%	
QC value within limits for Zn 213.857 Recovery = 103.96%							
SiO2†	85649.2	5593.1 ug/L	86.90	5593.1 ppb	86.90	1.55%	
QC value within limits for SiO2 Recovery = 104.59%							
QC Failed. Continue with analysis.							

Sequence No.: 83

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 00:34:30

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	5240.9	5240.9	98.7 %		00:36:23
1	Y RADIAL	5558.6	5558.6	97.99 %		00:36:23
1	Al 396.153Radial†	-9.5	7.1	5.1180 ug/L	5.1180 ppb	00:36:23
1	Ca 317.933Radial†	25.2	4.0	6.0546 ug/L	6.0546 ppb	00:36:43
1	Fe 238.204 Radial†	13.1	3.1	25.899 ug/L	25.899 ppb	00:36:43
1	K 766.490 Radial†	2923.4	313.5	56.786 ug/L	56.786 ppb	00:36:23
1	Mg 279.077 IEC†	1.0	-2.2	-68.574 ug/L	-68.574 ppb	00:36:43
1	Na 589.592 Radial†	-1597.8	-1.9	-0.5682 ug/L	-0.5682 ppb	00:36:23
1	Sr 421.552†	-4.5	-20.3	-0.1282 ug/L	-0.1282 ppb	00:36:23
1	Sc 361.383	854683.8	854683.8	97.983 %		00:37:40
1	Y 371.029	719847.2	719847.2	98.140 %		00:37:40
1	Ag 328.068†	299.4	-73.7	-0.3223 ug/L	-0.3223 ppb	00:37:40
1	As 188.979†	-16.4	6.7	2.7169 ug/L	2.7169 ppb	00:38:00
1	B 249.677†	-434.5	193.3	4.2104 ug/L	4.2104 ppb	00:38:00
1	Ba 233.527†	-1.9	6.9	0.0530 ug/L	0.0530 ppb	00:38:00
1	Be 313.107†	-4215.2	22.5	0.0079 ug/L	0.0079 ppb	00:37:40
1	Cd 226.502†	-189.3	9.4	0.0972 ug/L	0.0972 ppb	00:38:00
1	Co 228.616†	-76.3	0.6	0.0126 ug/L	0.0126 ppb	00:38:00
1	Cr 267.716†	56.6	-15.4	-0.1658 ug/L	-0.1658 ppb	00:38:00
1	Cu 324.752†	6513.1	101.1	0.2928 ug/L	0.2928 ppb	00:37:40
1	Mn 257.610†	470.1	-0.6	0.0047 ug/L	0.0047 ppb	00:38:00
1	Mo 202.031†	32.4	12.5	0.8463 ug/L	0.8463 ppb	00:38:00
1	Ni 231.604†	86.1	-6.4	-0.1516 ug/L	-0.1516 ppb	00:38:00
1	P 214.914†	204.4	-2.9	-1.7144 ug/L	-1.7144 ppb	00:38:00
1	Pb 220.353†	-56.5	9.6	1.1240 ug/L	1.1240 ppb	00:38:00
1	S 181.975 Axial†	46.2	2.6	3.4788 ug/L	3.4788 ppb	00:38:00
1	Sb 206.836†	41.2	12.8	4.2517 ug/L	4.2517 ppb	00:38:00
1	Se 196.026†	-28.9	-5.4	-3.1795 ug/L	-3.1795 ppb	00:38:00
1	Si 251.611†	504.0	70.9	2.1618 ug/L	2.1618 ppb	00:38:00
1	Sn 189.927†	4.1	3.4	0.5763 ug/L	0.5763 ppb	00:38:00
1	Ti 334.940†	-1358.6	-36.2	-0.0512 ug/L	-0.0512 ppb	00:37:40
1	Tl 190.801†	-37.6	1.1	0.3086 ug/L	0.3086 ppb	00:38:00
1	U 409.014†	-1923.6	114.2	3.2439 ug/L	3.2439 ppb	00:37:40
1	V 292.402†	-1358.7	4.2	0.0406 ug/L	0.0406 ppb	00:37:40
1	Zn 213.857†	691.1	-291.4	-2.6367 ug/L	-2.6367 ppb	00:38:00
1	SiO2†	540.3	92.5	6.0323 ug/L	6.0323 ppb	00:38:56
2	Sc Radial	5110.4	5110.4	96.2 %		00:36:48
2	Y RADIAL	5441.0	5441.0	95.92 %		00:36:48
2	Al 396.153Radial†	1.9	18.7	13.645 ug/L	13.645 ppb	00:36:48
2	Ca 317.933Radial†	20.3	-0.5	-0.7845 ug/L	-0.7845 ppb	00:37:08
2	Fe 238.204 Radial†	8.4	-1.4	-11.682 ug/L	-11.682 ppb	00:37:08
2	K 766.490 Radial†	2948.2	414.9	75.164 ug/L	75.164 ppb	00:36:48
2	Mg 279.077 IEC†	2.3	-0.8	-26.225 ug/L	-26.225 ppb	00:37:08
2	Na 589.592 Radial†	-1603.6	-49.4	-14.386 ug/L	-14.386 ppb	00:36:48
2	Sr 421.552†	18.1	3.1	0.0194 ug/L	0.0194 ppb	00:36:48
2	Sc 361.383	857677.0	857677.0	98.326 %		00:38:05
2	Y 371.029	721292.3	721292.3	98.337 %		00:38:05
2	Ag 328.068†	309.8	-64.2	-0.2853 ug/L	-0.2853 ppb	00:38:05
2	As 188.979†	-16.8	6.4	2.5787 ug/L	2.5787 ppb	00:38:25
2	B 249.677†	-461.7	167.2	3.6475 ug/L	3.6475 ppb	00:38:25
2	Ba 233.527†	-2.8	6.0	0.0448 ug/L	0.0448 ppb	00:38:25
2	Be 313.107†	-4136.2	117.9	0.0419 ug/L	0.0419 ppb	00:38:05
2	Cd 226.502†	-193.6	5.8	0.0613 ug/L	0.0613 ppb	00:38:25
2	Co 228.616†	-65.6	11.7	0.2302 ug/L	0.2302 ppb	00:38:25
2	Cr 267.716†	82.2	10.4	0.1128 ug/L	0.1128 ppb	00:38:25
2	Cu 324.752†	6613.1	179.7	0.5233 ug/L	0.5233 ppb	00:38:05
2	Mn 257.610†	467.9	-4.5	-0.0049 ug/L	-0.0049 ppb	00:38:25
2	Mo 202.031†	27.2	7.1	0.4795 ug/L	0.4795 ppb	00:38:25
2	Ni 231.604†	96.3	3.7	0.0873 ug/L	0.0873 ppb	00:38:25

2	P 214.914†	218.0	10.2	5.7901 ug/L	5.7901 ppb	00:38:25
2	Pb 220.353†	-56.0	10.4	1.2171 ug/L	1.2171 ppb	00:38:25
2	S 181.975 Axial†	45.1	1.3	1.7768 ug/L	1.7768 ppb	00:38:25
2	Sb 206.836†	38.6	10.0	3.3201 ug/L	3.3201 ppb	00:38:25
2	Se 196.026†	-25.0	-1.3	-0.8110 ug/L	-0.8110 ppb	00:38:25
2	Si 251.611†	511.0	76.3	2.3287 ug/L	2.3287 ppb	00:38:25
2	Sn 189.927†	-0.6	-1.3	-0.2241 ug/L	-0.2241 ppb	00:38:25
2	Ti 334.940†	-1325.3	2.5	0.0081 ug/L	0.0081 ppb	00:38:05
2	Tl 190.801†	-29.5	9.4	2.7473 ug/L	2.7473 ppb	00:38:25
2	U 409.014†	-2213.1	-173.4	-4.9262 ug/L	-4.9262 ppb	00:38:05
2	V 292.402†	-1368.0	-0.4	-0.0041 ug/L	-0.0041 ppb	00:38:05
2	Zn 213.857†	703.5	-281.3	-2.5431 ug/L	-2.5431 ppb	00:38:25
2	SiO2†	525.1	75.1	4.9066 ug/L	4.9066 ppb	00:39:01
3	Sc Radial	5109.7	5109.7	96.2 %		00:37:13
3	Y RADIAL	5438.9	5438.9	95.88 %		00:37:13
3	Al 396.153Radial†	11.0	28.2	20.566 ug/L	20.566 ppb	00:37:13
3	Ca 317.933Radial†	25.2	4.6	6.9740 ug/L	6.9740 ppb	00:37:33
3	Fe 238.204 Radial†	9.9	0.1	1.1292 ug/L	1.1292 ppb	00:37:33
3	K 766.490 Radial†	2995.5	464.5	84.142 ug/L	84.142 ppb	00:37:13
3	Mg 279.077 IEC†	0.5	-2.7	-85.402 ug/L	-85.402 ppb	00:37:33
3	Na 589.592 Radial†	-1559.3	-3.5	-1.0251 ug/L	-1.0251 ppb	00:37:13
3	Sr 421.552†	24.1	9.4	0.0592 ug/L	0.0592 ppb	00:37:13
3	Sc 361.383	848010.7	848010.7	97.218 %		00:38:30
3	Y 371.029	712371.5	712371.5	97.121 %		00:38:30
3	Ag 328.068†	378.8	10.4	0.0461 ug/L	0.0461 ppb	00:38:30
3	As 188.979†	-18.2	4.7	1.9200 ug/L	1.9200 ppb	00:38:50
3	B 249.677†	-457.5	166.1	3.6218 ug/L	3.6218 ppb	00:38:50
3	Ba 233.527†	4.6	13.6	0.1020 ug/L	0.1020 ppb	00:38:50
3	Be 313.107†	-4238.6	-35.5	-0.0128 ug/L	-0.0128 ppb	00:38:30
3	Cd 226.502†	-189.7	7.5	0.0796 ug/L	0.0796 ppb	00:38:50
3	Co 228.616†	-75.2	1.0	0.0204 ug/L	0.0204 ppb	00:38:50
3	Cr 267.716†	84.0	13.2	0.1409 ug/L	0.1409 ppb	00:38:50
3	Cu 324.752†	6622.8	266.3	0.7722 ug/L	0.7722 ppb	00:38:30
3	Mn 257.610†	481.3	14.6	0.0191 ug/L	0.0191 ppb	00:38:50
3	Mo 202.031†	20.0	0.0	0.0021 ug/L	0.0021 ppb	00:38:50
3	Ni 231.604†	86.8	-5.0	-0.1179 ug/L	-0.1179 ppb	00:38:50
3	P 214.914†	231.7	26.9	15.327 ug/L	15.327 ppb	00:38:50
3	Pb 220.353†	-55.8	9.9	1.1621 ug/L	1.1621 ppb	00:38:50
3	S 181.975 Axial†	49.7	6.6	8.7712 ug/L	8.7712 ppb	00:38:50
3	Sb 206.836†	43.5	15.5	5.1464 ug/L	5.1464 ppb	00:38:50
3	Se 196.026†	-33.2	-10.0	-6.0643 ug/L	-6.0643 ppb	00:38:50
3	Si 251.611†	515.6	86.9	2.6617 ug/L	2.6617 ppb	00:38:50
3	Sn 189.927†	5.7	5.1	0.8534 ug/L	0.8534 ppb	00:38:50
3	Ti 334.940†	-1373.7	-62.6	-0.0895 ug/L	-0.0895 ppb	00:38:30
3	Tl 190.801†	-39.4	-1.1	-0.3092 ug/L	-0.3092 ppb	00:38:50
3	U 409.014†	-2007.8	12.2	0.3458 ug/L	0.3458 ppb	00:38:30
3	V 292.402†	-1359.3	-7.3	-0.0486 ug/L	-0.0486 ppb	00:38:30
3	Zn 213.857†	691.1	-285.8	-2.5846 ug/L	-2.5846 ppb	00:38:50
3	SiO2†	504.0	59.5	3.8984 ug/L	3.8984 ppb	00:39:06

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853457.2	97.843 %	0.5673			0.58%
Sc Radial	5153.7	97.0 %	1.42			1.47%
Y 371.029	717837.0	97.866 %	0.6528			0.67%
Y RADIAL	5479.5	96.60 %	1.208			1.25%
Ag 328.068†	-42.5	-0.1872 ug/L	0.20288	-0.1872 ppb	0.20288	108.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	18.0	13.110 ug/L	7.7378	13.110 ppb	7.7378	59.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.9	2.4052 ug/L	0.42585	2.4052 ppb	0.42585	17.71%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	175.6	3.8266 ug/L	0.33267	3.8266 ppb	0.33267	8.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.8	0.0666 ug/L	0.03094	0.0666 ppb	0.03094	46.47%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	35.0	0.0123 ug/L	0.02762	0.0123 ppb	0.02762	224.45%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.7	4.0814 ug/L	4.23892	4.0814 ppb	4.23892	103.86%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	7.6	0.0793 ug/L	0.01796	0.0793 ppb	0.01796	22.63%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	4.4	0.0877 ug/L	0.12342	0.0877 ppb	0.12342	140.68%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	2.7	0.0293 ug/L	0.16957	0.0293 ppb	0.16957	578.83%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	182.4	0.5295 ug/L	0.23975	0.5295 ppb	0.23975	45.28%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.6	5.1154 ug/L	19.10486	5.1154 ppb	19.10486	373.48%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	397.6	72.030 ug/L	13.9444	72.030 ppb	13.9444	19.36%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.9	-60.067 ug/L	30.4919	-60.067 ppb	30.4919	50.76%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	3.2	0.0063 ug/L	0.01206	0.0063 ppb	0.01206	191.34%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	6.5	0.4426 ug/L	0.42332	0.4426 ppb	0.42332	95.64%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-18.3	-5.3265 ug/L	7.84936	-5.3265 ppb	7.84936	147.36%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-2.5	-0.0607 ug/L	0.12930	-0.0607 ppb	0.12930	212.91%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	11.4	6.4676 ug/L	8.54101	6.4676 ppb	8.54101	132.06%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	10.0	1.1677 ug/L	0.04681	1.1677 ppb	0.04681	4.01%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.5	4.6756 ug/L	3.64751	4.6756 ppb	3.64751	78.01%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	12.8	4.2394 ug/L	0.91322	4.2394 ppb	0.91322	21.54%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-5.5	-3.3516 ug/L	2.63090	-3.3516 ppb	2.63090	78.50%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	78.0	2.3841 ug/L	0.25448	2.3841 ppb	0.25448	10.67%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	2.4	0.4019 ug/L	0.55956	0.4019 ppb	0.55956	139.24%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-2.6	-0.0165 ug/L	0.09871	-0.0165 ppb	0.09871	597.65%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-32.1	-0.0442 ug/L	0.04917	-0.0442 ppb	0.04917	111.19%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.1	0.9156 ug/L	1.61613	0.9156 ppb	1.61613	176.52%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-15.7	-0.4455 ug/L	4.14212	-0.4455 ppb	4.14212	929.76%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-1.2	-0.0040 ug/L	0.04462	-0.0040 ppb	0.04462	>999.9%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-286.2	-2.5881 ug/L	0.04689	-2.5881 ppb	0.04689	1.81%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		75.7	4.9458 ug/L	1.06746	4.9458 ppb	1.06746	21.58%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 92

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 01:37:44

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	5182.0	5182.0	97.6 %		01:39:36
1	Y RADIAL	5437.0	5437.0	95.85 %		01:39:36
1	Al 396.153Radial†	6815.6	7001.1	5079.0 ug/L	5079.0 ppb	01:39:36
1	Ca 317.933Radial†	3382.4	3444.6	5235.0 ug/L	5235.0 ppb	01:39:56
1	Fe 238.204 Radial†	656.1	662.2	5475.0 ug/L	5475.0 ppb	01:39:56
1	K 766.490 Radial†	31093.9	29215.2	5285.0 ug/L	5285.0 ppb	01:39:36
1	Mg 279.077 IEC†	174.5	175.6	5489.5 ug/L	5489.5 ppb	01:39:56
1	Na 589.592 Radial†	37014.3	39547.9	11525 ug/L	11525 ppb	01:39:36
1	Sr 421.552†	84017.9	86082.6	543.76 ug/L	543.76 ppb	01:39:36
1	Sc 361.383	844409.3	844409.3	96.805 %		01:40:54
1	Y 371.029	699118.0	699118.0	95.314 %		01:40:54
1	Ag 328.068†	116274.9	119733.0	536.09 ug/L	536.09 ppb	01:40:59
1	As 188.979†	1225.7	1289.6	528.14 ug/L	528.14 ppb	01:41:19
1	B 249.677†	22424.8	23801.6	516.51 ug/L	516.51 ppb	01:40:59
1	Ba 233.527†	67878.4	70127.4	528.71 ug/L	528.71 ppb	01:40:59
1	Be 313.107†	1397209.1	1447643.9	515.29 ug/L	515.29 ppb	01:40:54
1	Cd 226.502†	48174.5	49967.0	529.02 ug/L	529.02 ppb	01:40:59
1	Co 228.616†	26024.7	26962.0	529.05 ug/L	529.05 ppb	01:40:59
1	Cr 267.716†	47886.0	49393.1	528.46 ug/L	528.46 ppb	01:40:59
1	Cu 324.752†	181785.6	181238.8	525.68 ug/L	525.68 ppb	01:40:59
1	Mn 257.610†	471161.2	486229.9	514.80 ug/L	514.80 ppb	01:40:54
1	Mo 202.031†	7554.1	7782.9	525.96 ug/L	525.96 ppb	01:41:19
1	Ni 231.604†	21618.4	22237.6	529.02 ug/L	529.02 ppb	01:40:59
1	P 214.914†	4626.6	4567.8	2526.8 ug/L	2526.8 ppb	01:41:19
1	Pb 220.353†	4305.4	4514.9	528.30 ug/L	528.30 ppb	01:41:19
1	S 181.975 Axial†	810.9	793.1	1056.5 ug/L	1056.5 ppb	01:41:19
1	Sb 206.836†	1560.6	1582.8	542.34 ug/L	542.34 ppb	01:41:19
1	Se 196.026†	805.7	856.4	540.87 ug/L	540.87 ppb	01:41:19
1	Si 251.611†	84408.0	86750.2	2649.5 ug/L	2649.5 ppb	01:40:59
1	Sn 189.927†	3030.0	3129.2	525.72 ug/L	525.72 ppb	01:41:19
1	Ti 334.940†	321591.7	333555.2	517.68 ug/L	517.68 ppb	01:40:59
1	Tl 190.801†	1693.0	1788.3	524.30 ug/L	524.30 ppb	01:41:19
1	U 409.014†	15855.9	18456.5	522.66 ug/L	522.66 ppb	01:40:59
1	V 292.402†	76538.2	80455.0	532.81 ug/L	532.81 ppb	01:40:59
1	Zn 213.857†	57813.5	58724.7	526.30 ug/L	526.30 ppb	01:40:59
1	SiO2†	81854.9	84097.4	5491.3 ug/L	5491.3 ppb	01:42:26
2	Sc Radial	5091.8	5091.8	95.9 %		01:40:01
2	Y RADIAL	5392.9	5392.9	95.07 %		01:40:01
2	Al 396.153Radial†	6713.8	7018.7	5092.6 ug/L	5092.6 ppb	01:40:01
2	Ca 317.933Radial†	3371.7	3494.8	5311.2 ug/L	5311.2 ppb	01:40:22
2	Fe 238.204 Radial†	659.6	677.8	5603.0 ug/L	5603.0 ppb	01:40:22
2	K 766.490 Radial†	30633.9	29300.1	5300.4 ug/L	5300.4 ppb	01:40:01
2	Mg 279.077 IEC†	174.6	178.9	5591.9 ug/L	5591.9 ppb	01:40:22
2	Na 589.592 Radial†	36535.0	39720.2	11575 ug/L	11575 ppb	01:40:01
2	Sr 421.552†	82947.2	86491.9	546.34 ug/L	546.34 ppb	01:40:01
2	Sc 361.383	866982.0	866982.0	99.393 %		01:41:25
2	Y 371.029	716368.9	716368.9	97.666 %		01:41:25
2	Ag 328.068†	114912.0	115234.4	516.06 ug/L	516.06 ppb	01:41:30
2	As 188.979†	1227.4	1258.3	515.33 ug/L	515.33 ppb	01:41:50
2	B 249.677†	22245.5	23018.1	499.46 ug/L	499.46 ppb	01:41:30
2	Ba 233.527†	67287.6	67707.3	510.47 ug/L	510.47 ppb	01:41:30
2	Be 313.107†	1433598.9	1446677.7	514.90 ug/L	514.90 ppb	01:41:25
2	Cd 226.502†	47782.7	48277.1	511.10 ug/L	511.10 ppb	01:41:30
2	Co 228.616†	25811.2	26047.3	511.11 ug/L	511.11 ppb	01:41:30
2	Cr 267.716†	47474.1	47690.8	510.25 ug/L	510.25 ppb	01:41:30
2	Cu 324.752†	178930.6	173477.2	503.19 ug/L	503.19 ppb	01:41:30
2	Mn 257.610†	484430.6	486908.4	515.52 ug/L	515.52 ppb	01:41:25
2	Mo 202.031†	7539.6	7565.1	511.26 ug/L	511.26 ppb	01:41:50
2	Ni 231.604†	21436.3	21472.9	510.83 ug/L	510.83 ppb	01:41:30

2	P 214.914†	4594.4	4410.9	2440.7 ug/L	2440.7 ppb	01:41:50
2	Pb 220.353†	4284.6	4378.1	512.32 ug/L	512.32 ppb	01:41:50
2	S 181.975 Axial†	808.4	768.8	1023.9 ug/L	1023.9 ppb	01:41:50
2	Sb 206.836†	1567.0	1547.4	530.09 ug/L	530.09 ppb	01:41:50
2	Se 196.026†	818.7	847.8	536.02 ug/L	536.02 ppb	01:41:50
2	Si 251.611†	83456.9	83523.1	2550.9 ug/L	2550.9 ppb	01:41:30
2	Sn 189.927†	3028.9	3046.6	511.89 ug/L	511.89 ppb	01:41:50
2	Ti 334.940†	317908.5	321200.2	498.52 ug/L	498.52 ppb	01:41:30
2	Tl 190.801†	1699.1	1748.9	512.78 ug/L	512.78 ppb	01:41:50
2	U 409.014†	15431.1	17602.7	498.42 ug/L	498.42 ppb	01:41:30
2	V 292.402†	75706.4	77559.6	513.64 ug/L	513.64 ppb	01:41:30
2	Zn 213.857†	57281.0	56634.0	507.54 ug/L	507.54 ppb	01:41:30
2	SiO2†	82848.3	82895.3	5413.0 ug/L	5413.0 ppb	01:42:32
3	Sc Radial	5078.4	5078.4	95.6 %		01:40:27
3	Y RADIAL	5374.0	5374.0	94.74 %		01:40:27
3	Al 396.153Radial†	6736.0	7060.5	5122.6 ug/L	5122.6 ppb	01:40:27
3	Ca 317.933Radial†	3369.0	3501.3	5321.1 ug/L	5321.1 ppb	01:40:47
3	Fe 238.204 Radial†	651.2	670.7	5545.2 ug/L	5545.2 ppb	01:40:47
3	K 766.490 Radial†	30450.3	29192.7	5280.9 ug/L	5280.9 ppb	01:40:27
3	Mg 279.077 IEC†	173.6	178.3	5573.8 ug/L	5573.8 ppb	01:40:47
3	Na 589.592 Radial†	36205.7	39476.5	11504 ug/L	11504 ppb	01:40:27
3	Sr 421.552†	82449.9	86200.5	544.50 ug/L	544.50 ppb	01:40:27
3	Sc 361.383	849883.8	849883.8	97.433 %		01:41:56
3	Y 371.029	703895.0	703895.0	95.965 %		01:41:56
3	Ag 328.068†	114926.3	117575.1	526.48 ug/L	526.48 ppb	01:42:01
3	As 188.979†	1202.0	1257.1	514.89 ug/L	514.89 ppb	01:42:21
3	B 249.677†	22192.6	23414.1	508.08 ug/L	508.08 ppb	01:42:01
3	Ba 233.527†	66930.9	68703.2	517.98 ug/L	517.98 ppb	01:42:01
3	Be 313.107†	1401505.2	1442756.1	513.53 ug/L	513.53 ppb	01:41:56
3	Cd 226.502†	47588.6	49045.1	519.25 ug/L	519.25 ppb	01:42:01
3	Co 228.616†	25716.2	26472.1	519.45 ug/L	519.45 ppb	01:42:01
3	Cr 267.716†	47348.1	48522.4	519.14 ug/L	519.14 ppb	01:42:01
3	Cu 324.752†	179268.7	177446.0	514.69 ug/L	514.69 ppb	01:42:01
3	Mn 257.610†	473556.9	485553.7	514.09 ug/L	514.09 ppb	01:41:56
3	Mo 202.031†	7513.7	7691.1	519.77 ug/L	519.77 ppb	01:42:21
3	Ni 231.604†	21363.4	21832.1	519.37 ug/L	519.37 ppb	01:42:01
3	P 214.914†	4574.4	4483.5	2480.3 ug/L	2480.3 ppb	01:42:21
3	Pb 220.353†	4259.9	4439.5	519.50 ug/L	519.50 ppb	01:42:21
3	S 181.975 Axial†	800.8	777.4	1035.5 ug/L	1035.5 ppb	01:42:21
3	Sb 206.836†	1561.6	1573.5	538.96 ug/L	538.96 ppb	01:42:21
3	Se 196.026†	818.3	864.0	545.67 ug/L	545.67 ppb	01:42:21
3	Si 251.611†	83200.2	84948.8	2594.4 ug/L	2594.4 ppb	01:42:01
3	Sn 189.927†	2987.0	3065.0	514.97 ug/L	514.97 ppb	01:42:21
3	Ti 334.940†	317189.3	326896.9	507.36 ug/L	507.36 ppb	01:42:01
3	Tl 190.801†	1693.9	1778.0	521.26 ug/L	521.26 ppb	01:42:21
3	U 409.014†	15656.3	18146.3	513.85 ug/L	513.85 ppb	01:42:01
3	V 292.402†	75706.3	79091.9	523.80 ug/L	523.80 ppb	01:42:01
3	Zn 213.857†	57025.4	57531.2	515.58 ug/L	515.58 ppb	01:42:01
3	SiO2†	83079.2	84809.2	5538.1 ug/L	5538.1 ppb	01:42:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853758.3	97.877 %	1.3499			1.38%
Sc Radial	5117.4	96.4 %	1.06			1.10%
Y 371.029	706460.7	96.315 %	1.2143			1.26%
Y RADIAL	5401.3	95.22 %	0.570			0.60%
Ag 328.068†	117514.2	526.21 ug/L	10.018	526.21 ppb	10.018	1.90%
QC value within limits for Ag 328.068 Recovery = 105.24%						
Al 396.153Radial†	7026.7	5098.1 ug/L	22.32	5098.1 ppb	22.32	0.44%
QC value within limits for Al 396.153Radial Recovery = 101.96%						
As 188.979†	1268.3	519.45 ug/L	7.524	519.45 ppb	7.524	1.45%
QC value within limits for As 188.979 Recovery = 103.89%						
B 249.677†	23411.3	508.02 ug/L	8.526	508.02 ppb	8.526	1.68%
QC value within limits for B 249.677 Recovery = 101.60%						
Ba 233.527†	68846.0	519.05 ug/L	9.166	519.05 ppb	9.166	1.77%
QC value within limits for Ba 233.527 Recovery = 103.81%						
Be 313.107†	1445692.6	514.57 ug/L	0.925	514.57 ppb	0.925	0.18%
QC value within limits for Be 313.107 Recovery = 102.91%						
Ca 317.933Radial†	3480.3	5289.1 ug/L	47.15	5289.1 ppb	47.15	0.89%

QC value within limits for Ca 317.933 Radial Recovery = 105.78%									
Cd	226.502†	49096.4	519.79 ug/L	8.975	519.79 ppb	8.975	1.73%		
QC value within limits for Cd 226.502 Recovery = 103.96%									
Co	228.616†	26493.8	519.87 ug/L	8.979	519.87 ppb	8.979	1.73%		
QC value within limits for Co 228.616 Recovery = 103.97%									
Cr	267.716†	48535.4	519.28 ug/L	9.103	519.28 ppb	9.103	1.75%		
QC value within limits for Cr 267.716 Recovery = 103.86%									
Cu	324.752†	177387.3	514.52 ug/L	11.247	514.52 ppb	11.247	2.19%		
QC value within limits for Cu 324.752 Recovery = 102.90%									
Fe	238.204 Radial†	670.2	5541.1 ug/L	64.06	5541.1 ppb	64.06	1.16%		
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 110.82%									
K	766.490 Radial†	29236.0	5288.8 ug/L	10.25	5288.8 ppb	10.25	0.19%		
QC value within limits for K 766.490 Radial Recovery = 105.78%									
Mg	279.077 IEC†	177.6	5551.7 ug/L	54.67	5551.7 ppb	54.67	0.98%		
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 111.03%									
Mn	257.610†	486230.6	514.80 ug/L	0.719	514.80 ppb	0.719	0.14%		
QC value within limits for Mn 257.610 Recovery = 102.96%									
Mo	202.031†	7679.7	519.00 ug/L	7.377	519.00 ppb	7.377	1.42%		
QC value within limits for Mo 202.031 Recovery = 103.80%									
Na	589.592 Radial†	39581.5	11535 ug/L	36.5	11535 ppb	36.5	0.32%		
QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.35%									
Ni	231.604†	21847.5	519.74 ug/L	9.101	519.74 ppb	9.101	1.75%		
QC value within limits for Ni 231.604 Recovery = 103.95%									
P	214.914†	4487.4	2482.6 ug/L	43.09	2482.6 ppb	43.09	1.74%		
QC value within limits for P 214.914 Recovery = 99.31%									
Pb	220.353†	4444.1	520.04 ug/L	8.005	520.04 ppb	8.005	1.54%		
QC value within limits for Pb 220.353 Recovery = 104.01%									
S	181.975 Axial†	779.8	1038.6 ug/L	16.49	1038.6 ppb	16.49	1.59%		
QC value within limits for S 181.975 Axial Recovery = 103.86%									
Sb	206.836†	1567.9	537.13 ug/L	6.325	537.13 ppb	6.325	1.18%		
QC value within limits for Sb 206.836 Recovery = 107.43%									
Se	196.026†	856.1	540.85 ug/L	4.824	540.85 ppb	4.824	0.89%		
QC value within limits for Se 196.026 Recovery = 108.17%									
Si	251.611†	85074.0	2598.3 ug/L	49.42	2598.3 ppb	49.42	1.90%		
QC value within limits for Si 251.611 Recovery = 103.93%									
Sn	189.927†	3080.3	517.53 ug/L	7.264	517.53 ppb	7.264	1.40%		
QC value within limits for Sn 189.927 Recovery = 103.51%									
Sr	421.552†	86258.3	544.87 ug/L	1.331	544.87 ppb	1.331	0.24%		
QC value within limits for Sr 421.552 Recovery = 108.97%									
Ti	334.940†	327217.4	507.86 ug/L	9.591	507.86 ppb	9.591	1.89%		
QC value within limits for Ti 334.940 Recovery = 101.57%									
Tl	190.801†	1771.7	519.45 ug/L	5.967	519.45 ppb	5.967	1.15%		
QC value within limits for Tl 190.801 Recovery = 103.89%									
U	409.014†	18068.5	511.64 ug/L	12.268	511.64 ppb	12.268	2.40%		
QC value within limits for U 409.014 Recovery = 102.33%									
V	292.402†	79035.5	523.42 ug/L	9.589	523.42 ppb	9.589	1.83%		
QC value within limits for V 292.402 Recovery = 104.68%									
Zn	213.857†	57630.0	516.47 ug/L	9.415	516.47 ppb	9.415	1.82%		
QC value within limits for Zn 213.857 Recovery = 103.29%									
SiO2†		83934.0	5480.8 ug/L	63.19	5480.8 ppb	63.19	1.15%		
QC value within limits for SiO2 Recovery = 102.49%									
QC Failed. Continue with analysis.									

Sequence No.: 93

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 01:44:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4942.6	4942.6	93.1 %		01:46:39
1	Y RADIAL	5261.2	5261.2	92.75 %		01:46:39
1	Al 396.153Radial†	-15.9	-0.4	-0.2910 ug/L	-0.2910 ppb	01:46:39
1	Ca 317.933Radial†	22.5	2.7	4.0524 ug/L	4.0524 ppb	01:46:59
1	Fe 238.204 Radial†	12.9	3.7	30.387 ug/L	30.387 ppb	01:46:59
1	K 766.490 Radial†	2869.6	434.6	78.729 ug/L	78.729 ppb	01:46:39
1	Mg 279.077 IEC†	2.1	-1.0	-31.535 ug/L	-31.535 ppb	01:46:59
1	Na 589.592 Radial†	-1629.7	-134.0	-39.054 ug/L	-39.054 ppb	01:46:39
1	Sr 421.552†	1.8	-13.8	-0.0872 ug/L	-0.0872 ppb	01:46:39
1	Sc 361.383	859357.4	859357.4	98.519 %		01:47:56
1	Y 371.029	722647.5	722647.5	98.522 %		01:47:56
1	Ag 328.068†	269.8	-105.4	-0.4587 ug/L	-0.4587 ppb	01:47:56
1	As 188.979†	-27.7	-4.7	-1.8969 ug/L	-1.8969 ppb	01:48:16
1	B 249.677†	-478.2	151.4	3.2945 ug/L	3.2945 ppb	01:48:16
1	Ba 233.527†	-0.7	8.1	0.0617 ug/L	0.0617 ppb	01:48:16
1	Be 313.107†	-4271.5	-11.3	-0.0038 ug/L	-0.0038 ppb	01:47:56
1	Cd 226.502†	-186.8	13.0	0.1342 ug/L	0.1342 ppb	01:48:16
1	Co 228.616†	-69.0	8.4	0.1651 ug/L	0.1651 ppb	01:48:16
1	Cr 267.716†	101.6	29.9	0.3206 ug/L	0.3206 ppb	01:48:16
1	Cu 324.752†	6657.6	211.6	0.6157 ug/L	0.6157 ppb	01:47:56
1	Mn 257.610†	467.1	-6.3	-0.0024 ug/L	-0.0024 ppb	01:48:16
1	Mo 202.031†	25.9	5.7	0.3874 ug/L	0.3874 ppb	01:48:16
1	Ni 231.604†	86.8	-6.1	-0.1460 ug/L	-0.1460 ppb	01:48:16
1	P 214.914†	223.8	15.6	8.8533 ug/L	8.8533 ppb	01:48:16
1	Pb 220.353†	-63.8	2.5	0.2930 ug/L	0.2930 ppb	01:48:16
1	S 181.975 Axial†	51.6	7.9	10.492 ug/L	10.492 ppb	01:48:16
1	Sb 206.836†	37.8	9.2	3.0503 ug/L	3.0503 ppb	01:48:16
1	Se 196.026†	-32.8	-9.1	-5.4549 ug/L	-5.4549 ppb	01:48:16
1	Si 251.611†	492.7	56.7	1.7309 ug/L	1.7309 ppb	01:48:16
1	Sn 189.927†	3.6	2.9	0.4824 ug/L	0.4824 ppb	01:48:16
1	Ti 334.940†	-1276.3	54.9	0.0885 ug/L	0.0885 ppb	01:47:56
1	Tl 190.801†	-33.0	5.9	1.7285 ug/L	1.7285 ppb	01:48:16
1	U 409.014†	-2063.7	-17.3	-0.4969 ug/L	-0.4969 ppb	01:47:56
1	V 292.402†	-1369.3	1.0	0.0057 ug/L	0.0057 ppb	01:47:56
1	Zn 213.857†	703.0	-283.2	-2.5631 ug/L	-2.5631 ppb	01:48:16
1	SiO2†	511.7	60.5	3.9487 ug/L	3.9487 ppb	01:49:12
2	Sc Radial	5240.4	5240.4	98.7 %		01:47:04
2	Y RADIAL	5590.3	5590.3	98.55 %		01:47:04
2	Al 396.153Radial†	-5.7	10.9	7.9666 ug/L	7.9666 ppb	01:47:04
2	Ca 317.933Radial†	20.7	-0.6	-0.8411 ug/L	-0.8411 ppb	01:47:24
2	Fe 238.204 Radial†	7.6	-2.5	-20.591 ug/L	-20.591 ppb	01:47:24
2	K 766.490 Radial†	2726.9	114.7	20.769 ug/L	20.769 ppb	01:47:04
2	Mg 279.077 IEC†	4.6	1.5	46.545 ug/L	46.545 ppb	01:47:24
2	Na 589.592 Radial†	-1589.9	5.8	1.6909 ug/L	1.6909 ppb	01:47:04
2	Sr 421.552†	-14.8	-30.7	-0.1942 ug/L	-0.1942 ppb	01:47:04
2	Sc 361.383	846880.1	846880.1	97.089 %		01:48:21
2	Y 371.029	711425.1	711425.1	96.992 %		01:48:21
2	Ag 328.068†	336.6	-32.6	-0.1500 ug/L	-0.1500 ppb	01:48:21
2	As 188.979†	-23.2	-0.5	-0.2045 ug/L	-0.2045 ppb	01:48:41
2	B 249.677†	-488.7	133.4	2.9111 ug/L	2.9111 ppb	01:48:41
2	Ba 233.527†	4.5	13.5	0.1004 ug/L	0.1004 ppb	01:48:41
2	Be 313.107†	-4172.7	26.6	0.0094 ug/L	0.0094 ppb	01:48:21
2	Cd 226.502†	-196.8	-0.1	0.0006 ug/L	0.0006 ppb	01:48:41
2	Co 228.616†	-67.6	8.8	0.1724 ug/L	0.1724 ppb	01:48:41
2	Cr 267.716†	73.5	2.5	0.0270 ug/L	0.0270 ppb	01:48:41
2	Cu 324.752†	6618.3	270.7	0.7857 ug/L	0.7857 ppb	01:48:21
2	Mn 257.610†	467.3	0.9	-0.0030 ug/L	-0.0030 ppb	01:48:41
2	Mo 202.031†	20.2	0.3	0.0183 ug/L	0.0183 ppb	01:48:41
2	Ni 231.604†	93.0	1.5	0.0361 ug/L	0.0361 ppb	01:48:41

2	P 214.914†	210.9	5.7	3.1372 ug/L	3.1372 ppb	01:48:41
2	Pb 220.353†	-73.9	-8.8	-1.0229 ug/L	-1.0229 ppb	01:48:41
2	S 181.975 Axial†	39.6	-3.7	-4.9534 ug/L	-4.9534 ppb	01:48:41
2	Sb 206.836†	40.0	12.0	3.9520 ug/L	3.9520 ppb	01:48:41
2	Se 196.026†	-25.2	-1.9	-1.2049 ug/L	-1.2049 ppb	01:48:41
2	Si 251.611†	525.8	98.2	3.0053 ug/L	3.0053 ppb	01:48:41
2	Sn 189.927†	0.6	-0.2	-0.0321 ug/L	-0.0321 ppb	01:48:41
2	Ti 334.940†	-1325.2	-14.6	-0.0253 ug/L	-0.0253 ppb	01:48:21
2	Tl 190.801†	-35.8	2.6	0.7436 ug/L	0.7436 ppb	01:48:41
2	U 409.014†	-2112.2	-98.1	-2.7856 ug/L	-2.7856 ppb	01:48:21
2	V 292.402†	-1371.2	-21.4	-0.1411 ug/L	-0.1411 ppb	01:48:21
2	Zn 213.857†	694.0	-281.9	-2.5482 ug/L	-2.5482 ppb	01:48:41
2	SiO2†	524.0	80.8	5.2921 ug/L	5.2921 ppb	01:49:17
3	Sc Radial	5123.5	5123.5	96.5 %		01:47:29
3	Y RADIAL	5493.1	5493.1	96.84 %		01:47:29
3	Al 396.153Radial†	-19.3	-3.3	-2.4412 ug/L	-2.4412 ppb	01:47:29
3	Ca 317.933Radial†	20.0	-0.8	-1.2096 ug/L	-1.2096 ppb	01:47:49
3	Fe 238.204 Radial†	13.1	3.4	27.762 ug/L	27.762 ppb	01:47:49
3	K 766.490 Radial†	2769.4	221.8	40.185 ug/L	40.185 ppb	01:47:29
3	Mg 279.077 IEC†	3.0	-0.1	-3.3142 ug/L	-3.3142 ppb	01:47:49
3	Na 589.592 Radial†	-1649.7	-92.9	-27.074 ug/L	-27.074 ppb	01:47:29
3	Sr 421.552†	9.3	-6.1	-0.0383 ug/L	-0.0383 ppb	01:47:29
3	Sc 361.383	840888.0	840888.0	96.402 %		01:48:46
3	Y 371.029	708418.5	708418.5	96.582 %		01:48:46
3	Ag 328.068†	298.3	-69.8	-0.3041 ug/L	-0.3041 ppb	01:48:46
3	As 188.979†	-26.3	-3.8	-1.5569 ug/L	-1.5569 ppb	01:49:06
3	B 249.677†	-516.2	101.3	2.2037 ug/L	2.2037 ppb	01:49:06
3	Ba 233.527†	0.9	9.8	0.0732 ug/L	0.0732 ppb	01:49:06
3	Be 313.107†	-4202.1	-34.5	-0.0124 ug/L	-0.0124 ppb	01:48:46
3	Cd 226.502†	-191.9	3.6	0.0350 ug/L	0.0350 ppb	01:49:06
3	Co 228.616†	-78.0	-2.4	-0.0466 ug/L	-0.0466 ppb	01:49:06
3	Cr 267.716†	97.8	28.2	0.3015 ug/L	0.3015 ppb	01:49:06
3	Cu 324.752†	6452.7	147.6	0.4297 ug/L	0.4297 ppb	01:48:46
3	Mn 257.610†	483.1	20.7	0.0248 ug/L	0.0248 ppb	01:49:06
3	Mo 202.031†	30.5	11.1	0.7503 ug/L	0.7503 ppb	01:49:06
3	Ni 231.604†	95.6	5.0	0.1179 ug/L	0.1179 ppb	01:49:06
3	P 214.914†	216.2	12.7	7.2344 ug/L	7.2344 ppb	01:49:06
3	Pb 220.353†	-62.0	3.0	0.3475 ug/L	0.3475 ppb	01:49:06
3	S 181.975 Axial†	44.3	1.4	1.8610 ug/L	1.8610 ppb	01:49:06
3	Sb 206.836†	33.3	5.3	1.7757 ug/L	1.7757 ppb	01:49:06
3	Se 196.026†	-26.8	-3.6	-2.1058 ug/L	-2.1058 ppb	01:49:06
3	Si 251.611†	500.3	75.5	2.3032 ug/L	2.3032 ppb	01:49:06
3	Sn 189.927†	5.3	4.8	0.8026 ug/L	0.8026 ppb	01:49:06
3	Ti 334.940†	-1353.9	-54.0	-0.0838 ug/L	-0.0838 ppb	01:48:46
3	Tl 190.801†	-38.0	0.1	0.0233 ug/L	0.0233 ppb	01:49:06
3	U 409.014†	-2009.0	-6.6	-0.1918 ug/L	-0.1918 ppb	01:48:46
3	V 292.402†	-1432.4	-95.0	-0.6148 ug/L	-0.6148 ppb	01:48:46
3	Zn 213.857†	689.4	-281.6	-2.5495 ug/L	-2.5495 ppb	01:49:06
3	SiO2†	508.7	68.8	4.4830 ug/L	4.4830 ppb	01:49:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849041.8	97.336 %	1.0802			1.11%
Sc Radial	5102.1	96.1 %	2.83			2.94%
Y 371.029	714163.7	97.365 %	1.0224			1.05%
Y RADIAL	5448.2	96.05 %	2.981			3.10%
Ag 328.068†	-69.3	-0.3043 ug/L	0.15434	-0.3043 ppb	0.15434	50.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.4	1.7448 ug/L	5.49449	1.7448 ppb	5.49449	314.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.0	-1.2194 ug/L	0.89522	-1.2194 ppb	0.89522	73.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	128.7	2.8031 ug/L	0.55339	2.8031 ppb	0.55339	19.74%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.5	0.0784 ug/L	0.01984	0.0784 ppb	0.01984	25.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-6.4	-0.0023 ug/L	0.01100	-0.0023 ppb	0.01100	480.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.4	0.6672 ug/L	2.93741	0.6672 ppb	2.93741	440.25%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	5.5	0.0566 ug/L	0.06937	0.0566 ppb	0.06937	122.53%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.9	0.0970 ug/L	0.12438	0.0970 ppb	0.12438	128.28%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	20.2	0.2163 ug/L	0.16429	0.2163 ppb	0.16429	75.94%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	210.0	0.6104 ug/L	0.17807	0.6104 ppb	0.17807	29.17%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.5	12.519 ug/L	28.7048	12.519 ppb	28.7048	229.28%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	257.0	46.561 ug/L	29.5012	46.561 ppb	29.5012	63.36%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.1	3.8985 ug/L	39.53650	3.8985 ppb	39.53650	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	5.1	0.0065 ug/L	0.01587	0.0065 ppb	0.01587	244.88%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.7	0.3853 ug/L	0.36600	0.3853 ppb	0.36600	94.99%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-73.7	-21.479 ug/L	20.9407	-21.479 ppb	20.9407	97.49%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.1	0.0027 ug/L	0.13512	0.0027 ppb	0.13512	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	11.4	6.4083 ug/L	2.94623	6.4083 ppb	2.94623	45.98%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-1.1	-0.1274 ug/L	0.77594	-0.1274 ppb	0.77594	608.86%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.9	2.4667 ug/L	7.74064	2.4667 ppb	7.74064	313.81%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	8.8	2.9260 ug/L	1.09349	2.9260 ppb	1.09349	37.37%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.9	-2.9219 ug/L	2.23947	-2.9219 ppb	2.23947	76.65%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	76.8	2.3464 ug/L	0.63831	2.3464 ppb	0.63831	27.20%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.5	0.4176 ug/L	0.42108	0.4176 ppb	0.42108	100.83%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-16.9	-0.1066 ug/L	0.07969	-0.1066 ppb	0.07969	74.79%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-4.6	-0.0069 ug/L	0.08762	-0.0069 ppb	0.08762	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.9	0.8318 ug/L	0.85603	0.8318 ppb	0.85603	102.91%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-40.7	-1.1581 ug/L	1.41768	-1.1581 ppb	1.41768	122.41%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-38.5	-0.2500 ug/L	0.32428	-0.2500 ppb	0.32428	129.69%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-282.2	-2.5536 ug/L	0.00824	-2.5536 ppb	0.00824	0.32%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	70.0	4.5746 ug/L	0.67635	4.5746 ppb	0.67635	14.78%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 102

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 02:46:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5172.5	5172.5	97.4 %		02:48:50
1	Y RADIAL	5494.5	5494.5	96.86 %		02:48:50
1	Al 396.153Radial†	6816.4	7014.9	5089.6 ug/L	5089.6 ppb	02:48:50
1	Ca 317.933Radial†	3393.1	3462.0	5261.4 ug/L	5261.4 ppb	02:49:10
1	Fe 238.204 Radial†	660.2	667.7	5519.9 ug/L	5519.9 ppb	02:49:10
1	K 766.490 Radial†	31562.1	29755.0	5382.7 ug/L	5382.7 ppb	02:48:50
1	Mg 279.077 IEC†	170.8	172.1	5379.6 ug/L	5379.6 ppb	02:49:10
1	Na 589.592 Radial†	37334.4	39946.7	11641 ug/L	11641 ppb	02:48:50
1	Sr 421.552†	84551.4	86789.9	548.23 ug/L	548.23 ppb	02:48:50
1	Sc 361.383	863735.7	863735.7	99.021 %		02:50:08
1	Y 371.029	711867.3	711867.3	97.052 %		02:50:08
1	Ag 328.068†	116342.4	117113.5	524.41 ug/L	524.41 ppb	02:50:13
1	As 188.979†	1223.2	1258.7	515.65 ug/L	515.65 ppb	02:50:33
1	B 249.677†	22494.0	23353.2	506.76 ug/L	506.76 ppb	02:50:13
1	Ba 233.527†	67904.8	68585.1	517.08 ug/L	517.08 ppb	02:50:13
1	Be 313.107†	1414712.0	1433025.0	510.10 ug/L	510.10 ppb	02:50:08
1	Cd 226.502†	47879.4	48555.4	514.06 ug/L	514.06 ppb	02:50:13
1	Co 228.616†	26056.6	26392.6	517.85 ug/L	517.85 ppb	02:50:13
1	Cr 267.716†	47726.9	48125.6	514.90 ug/L	514.90 ppb	02:50:13
1	Cu 324.752†	182019.5	177273.3	514.19 ug/L	514.19 ppb	02:50:13
1	Mn 257.610†	482681.4	486973.7	515.59 ug/L	515.59 ppb	02:50:08
1	Mo 202.031†	7574.8	7629.1	515.58 ug/L	515.58 ppb	02:50:33
1	Ni 231.604†	21483.8	21602.0	513.90 ug/L	513.90 ppb	02:50:13
1	P 214.914†	4615.0	4449.2	2460.7 ug/L	2460.7 ppb	02:50:33
1	Pb 220.353†	4288.6	4398.4	514.69 ug/L	514.69 ppb	02:50:33
1	S 181.975 Axial†	813.8	777.4	1035.4 ug/L	1035.4 ppb	02:50:33
1	Sb 206.836†	1571.8	1558.1	533.73 ug/L	533.73 ppb	02:50:33
1	Se 196.026†	807.8	839.9	530.95 ug/L	530.95 ppb	02:50:33
1	Si 251.611†	84505.8	84897.9	2592.9 ug/L	2592.9 ppb	02:50:13
1	Sn 189.927†	3028.1	3057.3	513.66 ug/L	513.66 ppb	02:50:33
1	Ti 334.940†	329802.4	334413.9	519.04 ug/L	519.04 ppb	02:50:08
1	Tl 190.801†	1719.8	1776.3	520.88 ug/L	520.88 ppb	02:50:33
1	U 409.014†	16001.1	18236.8	516.44 ug/L	516.44 ppb	02:50:13
1	V 292.402†	76402.2	78548.6	520.18 ug/L	520.18 ppb	02:50:13
1	Zn 213.857†	57418.1	56989.2	510.72 ug/L	510.72 ppb	02:50:13
1	SiO2†	84544.4	84921.5	5545.6 ug/L	5545.6 ppb	02:51:41
2	Sc Radial	5159.6	5159.6	97.2 %		02:49:15
2	Y RADIAL	5447.6	5447.6	96.04 %		02:49:15
2	Al 396.153Radial†	6813.9	7029.8	5100.5 ug/L	5100.5 ppb	02:49:15
2	Ca 317.933Radial†	3389.8	3467.3	5269.3 ug/L	5269.3 ppb	02:49:35
2	Fe 238.204 Radial†	666.7	676.0	5588.4 ug/L	5588.4 ppb	02:49:35
2	K 766.490 Radial†	31741.4	30020.5	5430.8 ug/L	5430.8 ppb	02:49:15
2	Mg 279.077 IEC†	176.9	178.9	5591.1 ug/L	5591.1 ppb	02:49:35
2	Na 589.592 Radial†	37395.7	40105.6	11688 ug/L	11688 ppb	02:49:15
2	Sr 421.552†	84683.6	87142.9	550.46 ug/L	550.46 ppb	02:49:15
2	Sc 361.383	864890.7	864890.7	99.153 %		02:50:39
2	Y 371.029	714280.6	714280.6	97.381 %		02:50:39
2	Ag 328.068†	114885.3	115487.1	517.18 ug/L	517.18 ppb	02:50:44
2	As 188.979†	1225.8	1259.7	516.02 ug/L	516.02 ppb	02:51:04
2	B 249.677†	22249.7	23076.5	500.74 ug/L	500.74 ppb	02:50:44
2	Ba 233.527†	67000.3	67581.2	509.52 ug/L	509.52 ppb	02:50:44
2	Be 313.107†	1410684.6	1427055.4	507.97 ug/L	507.97 ppb	02:50:39
2	Cd 226.502†	47237.1	47843.1	506.50 ug/L	506.50 ppb	02:50:44
2	Co 228.616†	25630.2	25927.5	508.73 ug/L	508.73 ppb	02:50:44
2	Cr 267.716†	47125.7	47454.9	507.73 ug/L	507.73 ppb	02:50:44
2	Cu 324.752†	179640.5	174628.5	506.52 ug/L	506.52 ppb	02:50:44
2	Mn 257.610†	479308.3	482920.9	511.30 ug/L	511.30 ppb	02:50:39
2	Mo 202.031†	7572.7	7616.8	514.75 ug/L	514.75 ppb	02:51:04
2	Ni 231.604†	21199.6	21286.4	506.39 ug/L	506.39 ppb	02:50:44

2	P 214.914†	4626.9	4454.9	2465.4 ug/L	2465.4 ppb	02:51:04
2	Pb 220.353†	4263.2	4367.0	511.03 ug/L	511.03 ppb	02:51:04
2	S 181.975 Axial†	814.2	776.6	1034.5 ug/L	1034.5 ppb	02:51:04
2	Sb 206.836†	1571.2	1555.4	532.78 ug/L	532.78 ppb	02:51:04
2	Se 196.026†	810.1	841.2	531.93 ug/L	531.93 ppb	02:51:04
2	Si 251.611†	83281.9	83549.6	2551.6 ug/L	2551.6 ppb	02:50:44
2	Sn 189.927†	3021.3	3046.4	511.84 ug/L	511.84 ppb	02:51:04
2	Ti 334.940†	327866.9	332017.0	515.31 ug/L	515.31 ppb	02:50:39
2	Tl 190.801†	1713.1	1767.2	518.25 ug/L	518.25 ppb	02:51:04
2	U 409.014†	15669.9	17881.1	506.34 ug/L	506.34 ppb	02:50:44
2	V 292.402†	75618.5	77655.2	514.32 ug/L	514.32 ppb	02:50:44
2	Zn 213.857†	56750.0	56237.9	503.98 ug/L	503.98 ppb	02:50:44
2	SiO2†	84113.8	84373.2	5509.7 ug/L	5509.7 ppb	02:51:46
3	Sc Radial	5239.1	5239.1	98.7 %		02:49:40
3	Y RADIAL	5484.4	5484.4	96.69 %		02:49:40
3	Al 396.153Radial†	6916.3	7027.2	5098.3 ug/L	5098.3 ppb	02:49:40
3	Ca 317.933Radial†	3363.7	3388.0	5148.8 ug/L	5148.8 ppb	02:50:00
3	Fe 238.204 Radial†	659.3	658.1	5441.6 ug/L	5441.6 ppb	02:50:00
3	K 766.490 Radial†	32136.4	29925.1	5413.6 ug/L	5413.6 ppb	02:49:40
3	Mg 279.077 IEC†	174.5	173.7	5429.7 ug/L	5429.7 ppb	02:50:00
3	Na 589.592 Radial†	37961.7	40095.3	11685 ug/L	11685 ppb	02:49:40
3	Sr 421.552†	85737.2	86888.3	548.85 ug/L	548.85 ppb	02:49:40
3	Sc 361.383	855848.7	855848.7	98.117 %		02:51:10
3	Y 371.029	706364.0	706364.0	96.302 %		02:51:10
3	Ag 328.068†	116746.1	118607.7	531.04 ug/L	531.04 ppb	02:51:15
3	As 188.979†	1232.8	1279.9	524.16 ug/L	524.16 ppb	02:51:35
3	B 249.677†	22695.7	23768.2	515.80 ug/L	515.80 ppb	02:51:15
3	Ba 233.527†	68077.9	69393.4	523.17 ug/L	523.17 ppb	02:51:15
3	Be 313.107†	1395396.8	1426505.1	507.77 ug/L	507.77 ppb	02:51:10
3	Cd 226.502†	47803.7	48923.9	517.98 ug/L	517.98 ppb	02:51:15
3	Co 228.616†	26115.5	26695.2	523.82 ug/L	523.82 ppb	02:51:15
3	Cr 267.716†	47727.9	48570.8	519.66 ug/L	519.66 ppb	02:51:15
3	Cu 324.752†	183126.4	180095.4	522.36 ug/L	522.36 ppb	02:51:15
3	Mn 257.610†	475127.5	483766.9	512.19 ug/L	512.19 ppb	02:51:10
3	Mo 202.031†	7598.8	7724.1	521.99 ug/L	521.99 ppb	02:51:35
3	Ni 231.604†	21528.0	21847.0	519.73 ug/L	519.73 ppb	02:51:15
3	P 214.914†	4641.2	4518.8	2499.2 ug/L	2499.2 ppb	02:51:35
3	Pb 220.353†	4318.4	4468.7	522.91 ug/L	522.91 ppb	02:51:35
3	S 181.975 Axial†	812.7	783.8	1044.0 ug/L	1044.0 ppb	02:51:35
3	Sb 206.836†	1579.2	1580.3	541.33 ug/L	541.33 ppb	02:51:35
3	Se 196.026†	815.9	855.7	540.29 ug/L	540.29 ppb	02:51:35
3	Si 251.611†	85010.1	86198.3	2632.6 ug/L	2632.6 ppb	02:51:15
3	Sn 189.927†	3041.7	3099.4	520.71 ug/L	520.71 ppb	02:51:35
3	Ti 334.940†	324404.8	331982.0	515.24 ug/L	515.24 ppb	02:51:10
3	Tl 190.801†	1719.7	1792.2	525.44 ug/L	525.44 ppb	02:51:35
3	U 409.014†	16246.7	18636.0	527.78 ug/L	527.78 ppb	02:51:15
3	V 292.402†	76432.3	79290.3	525.16 ug/L	525.16 ppb	02:51:15
3	Zn 213.857†	57480.5	57587.1	516.08 ug/L	516.08 ppb	02:51:15
3	SiO2†	84606.8	85771.8	5601.1 ug/L	5601.1 ppb	02:51:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861491.7	98.764 %	0.5642			0.57%
Sc Radial	5190.4	97.7 %	0.80			0.82%
Y 371.029	710837.3	96.912 %	0.5532			0.57%
Y RADIAL	5475.5	96.53 %	0.434			0.45%
Ag 328.068†	117069.4	524.21 ug/L	6.934	524.21 ppb	6.934	1.32%
QC value within limits for Ag 328.068 Recovery = 104.84%						
Al 396.153Radial†	7024.0	5096.1 ug/L	5.76	5096.1 ppb	5.76	0.11%
QC value within limits for Al 396.153Radial Recovery = 101.92%						
As 188.979†	1266.1	518.61 ug/L	4.808	518.61 ppb	4.808	0.93%
QC value within limits for As 188.979 Recovery = 103.72%						
B 249.677†	23399.3	507.77 ug/L	7.581	507.77 ppb	7.581	1.49%
QC value within limits for B 249.677 Recovery = 101.55%						
Ba 233.527†	68519.9	516.59 ug/L	6.837	516.59 ppb	6.837	1.32%
QC value within limits for Ba 233.527 Recovery = 103.32%						
Be 313.107†	1428861.8	508.61 ug/L	1.289	508.61 ppb	1.289	0.25%
QC value within limits for Be 313.107 Recovery = 101.72%						
Ca 317.933Radial†	3439.1	5226.5 ug/L	67.40	5226.5 ppb	67.40	1.29%

QC value within limits for Ca 317.933 Radial Recovery = 104.53%						
Cd 226.502†	48440.8	512.85 ug/L	5.832	512.85 ppb	5.832	1.14%
QC value within limits for Cd 226.502 Recovery = 102.57%						
Co 228.616†	26338.4	516.80 ug/L	7.597	516.80 ppb	7.597	1.47%
QC value within limits for Co 228.616 Recovery = 103.36%						
Cr 267.716†	48050.4	514.09 ug/L	6.004	514.09 ppb	6.004	1.17%
QC value within limits for Cr 267.716 Recovery = 102.82%						
Cu 324.752†	177332.4	514.36 ug/L	7.920	514.36 ppb	7.920	1.54%
QC value within limits for Cu 324.752 Recovery = 102.87%						
Fe 238.204 Radial†	667.3	5516.6 ug/L	73.49	5516.6 ppb	73.49	1.33%
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 110.33%						
K 766.490 Radial†	29900.2	5409.1 ug/L	24.36	5409.1 ppb	24.36	0.45%
QC value within limits for K 766.490 Radial Recovery = 108.18%						
Mg 279.077 IEC†	174.9	5466.8 ug/L	110.55	5466.8 ppb	110.55	2.02%
QC value within limits for Mg 279.077 IEC Recovery = 109.34%						
Mn 257.610†	48453.8	513.03 ug/L	2.265	513.03 ppb	2.265	0.44%
QC value within limits for Mn 257.610 Recovery = 102.61%						
Mo 202.031†	7656.7	517.44 ug/L	3.958	517.44 ppb	3.958	0.76%
QC value within limits for Mo 202.031 Recovery = 103.49%						
Na 589.592 Radial†	40049.2	11671 ug/L	25.9	11671 ppb	25.9	0.22%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 116.71%						
Ni 231.604†	21578.5	513.34 ug/L	6.685	513.34 ppb	6.685	1.30%
QC value within limits for Ni 231.604 Recovery = 102.67%						
P 214.914†	4474.3	2475.1 ug/L	21.03	2475.1 ppb	21.03	0.85%
QC value within limits for P 214.914 Recovery = 99.00%						
Pb 220.353†	4411.3	516.21 ug/L	6.084	516.21 ppb	6.084	1.18%
QC value within limits for Pb 220.353 Recovery = 103.24%						
S 181.975 Axial†	779.3	1038.0 ug/L	5.24	1038.0 ppb	5.24	0.51%
QC value within limits for S 181.975 Axial Recovery = 103.80%						
Sb 206.836†	1564.6	535.95 ug/L	4.685	535.95 ppb	4.685	0.87%
QC value within limits for Sb 206.836 Recovery = 107.19%						
Se 196.026†	845.6	534.39 ug/L	5.131	534.39 ppb	5.131	0.96%
QC value within limits for Se 196.026 Recovery = 106.88%						
Si 251.611†	84881.9	2592.4 ug/L	40.51	2592.4 ppb	40.51	1.56%
QC value within limits for Si 251.611 Recovery = 103.70%						
Sn 189.927†	3067.7	515.40 ug/L	4.683	515.40 ppb	4.683	0.91%
QC value within limits for Sn 189.927 Recovery = 103.08%						
Sr 421.552†	86940.4	549.18 ug/L	1.151	549.18 ppb	1.151	0.21%
QC value within limits for Sr 421.552 Recovery = 109.84%						
Ti 334.940†	332804.3	516.53 ug/L	2.175	516.53 ppb	2.175	0.42%
QC value within limits for Ti 334.940 Recovery = 103.31%						
Tl 190.801†	1778.6	521.52 ug/L	3.638	521.52 ppb	3.638	0.70%
QC value within limits for Tl 190.801 Recovery = 104.30%						
U 409.014†	18251.3	516.85 ug/L	10.726	516.85 ppb	10.726	2.08%
QC value within limits for U 409.014 Recovery = 103.37%						
V 292.402†	78498.0	519.89 ug/L	5.428	519.89 ppb	5.428	1.04%
QC value within limits for V 292.402 Recovery = 103.98%						
Zn 213.857†	56938.0	510.26 ug/L	6.066	510.26 ppb	6.066	1.19%
QC value within limits for Zn 213.857 Recovery = 102.05%						
SiO2†	85022.2	5552.1 ug/L	46.03	5552.1 ppb	46.03	0.83%
QC value within limits for SiO2 Recovery = 103.83%						
QC Failed. Continue with analysis.						

Sequence No.: 103

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 02:54:00

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	5248.3	5248.3	98.8 %		02:55:53
1	Y RADIAL	5562.5	5562.5	98.06 %		02:55:53
1	Al 396.153Radial†	-15.5	1.0	0.7357 ug/L	0.7357 ppb	02:55:53
1	Ca 317.933Radial†	27.3	6.0	9.1874 ug/L	9.1874 ppb	02:56:13
1	Fe 238.204 Radial†	12.2	2.1	17.569 ug/L	17.569 ppb	02:56:13
1	K 766.490 Radial†	3093.0	481.0	87.129 ug/L	87.129 ppb	02:55:53
1	Mg 279.077 IEC†	2.0	-1.2	-37.609 ug/L	-37.609 ppb	02:56:13
1	Na 589.592 Radial†	-1611.0	-13.0	-3.7984 ug/L	-3.7984 ppb	02:55:53
1	Sr 421.552†	33.9	18.6	0.1172 ug/L	0.1172 ppb	02:55:53
1	Sc 361.383	853498.9	853498.9	97.847 %		02:57:10
1	Y 371.029	716214.0	716214.0	97.645 %		02:57:10
1	Ag 328.068†	242.3	-131.6	-0.5801 ug/L	-0.5801 ppb	02:57:10
1	As 188.979†	-26.9	-4.1	-1.6600 ug/L	-1.6600 ppb	02:57:30
1	B 249.677†	-375.5	253.0	5.5135 ug/L	5.5135 ppb	02:57:30
1	Ba 233.527†	11.1	20.2	0.1528 ug/L	0.1528 ppb	02:57:30
1	Be 313.107†	-4237.0	-5.8	-0.0024 ug/L	-0.0024 ppb	02:57:10
1	Cd 226.502†	-183.1	15.4	0.1618 ug/L	0.1618 ppb	02:57:30
1	Co 228.616†	-75.2	1.6	0.0327 ug/L	0.0327 ppb	02:57:30
1	Cr 267.716†	72.6	1.0	0.0103 ug/L	0.0103 ppb	02:57:30
1	Cu 324.752†	6576.2	174.8	0.5074 ug/L	0.5074 ppb	02:57:10
1	Mn 257.610†	459.5	-10.8	-0.0082 ug/L	-0.0082 ppb	02:57:30
1	Mo 202.031†	27.1	7.2	0.4843 ug/L	0.4843 ppb	02:57:30
1	Ni 231.604†	82.8	-9.6	-0.2288 ug/L	-0.2288 ppb	02:57:30
1	P 214.914†	214.0	7.2	4.0666 ug/L	4.0666 ppb	02:57:30
1	Pb 220.353†	-51.7	14.5	1.6956 ug/L	1.6956 ppb	02:57:30
1	S 181.975 Axial†	47.4	3.9	5.2174 ug/L	5.2174 ppb	02:57:30
1	Sb 206.836†	40.0	11.7	3.9108 ug/L	3.9108 ppb	02:57:30
1	Se 196.026†	-24.4	-0.8	-0.4369 ug/L	-0.4369 ppb	02:57:30
1	Si 251.611†	495.6	63.0	1.9242 ug/L	1.9242 ppb	02:57:30
1	Sn 189.927†	16.3	15.9	2.6671 ug/L	2.6671 ppb	02:57:30
1	Ti 334.940†	-1409.3	-89.9	-0.1358 ug/L	-0.1358 ppb	02:57:10
1	Tl 190.801†	-41.8	-3.2	-0.9456 ug/L	-0.9456 ppb	02:57:30
1	U 409.014†	-1990.9	42.7	1.2114 ug/L	1.2114 ppb	02:57:10
1	V 292.402†	-1334.4	27.2	0.1837 ug/L	0.1837 ppb	02:57:10
1	Zn 213.857†	678.5	-303.3	-2.7432 ug/L	-2.7432 ppb	02:57:30
1	SiO2†	492.0	43.9	2.8626 ug/L	2.8626 ppb	02:58:26
2	Sc Radial	5358.0	5358.0	101 %		02:56:18
2	Y RADIAL	5676.9	5676.9	100.1 %		02:56:18
2	Al 396.153Radial†	1.8	18.5	13.509 ug/L	13.509 ppb	02:56:18
2	Ca 317.933Radial†	22.7	0.9	1.4060 ug/L	1.4060 ppb	02:56:38
2	Fe 238.204 Radial†	13.1	2.8	23.463 ug/L	23.463 ppb	02:56:38
2	K 766.490 Radial†	3279.6	601.8	109.01 ug/L	109.01 ppb	02:56:18
2	Mg 279.077 IEC†	-2.4	-5.5	-173.44 ug/L	-173.44 ppb	02:56:38
2	Na 589.592 Radial†	-1608.0	23.3	6.7855 ug/L	6.7855 ppb	02:56:18
2	Sr 421.552†	30.6	14.6	0.0924 ug/L	0.0924 ppb	02:56:18
2	Sc 361.383	858231.1	858231.1	98.390 %		02:57:35
2	Y 371.029	720911.3	720911.3	98.285 %		02:57:35
2	Ag 328.068†	283.5	-91.1	-0.3974 ug/L	-0.3974 ppb	02:57:35
2	As 188.979†	-23.6	-0.6	-0.2281 ug/L	-0.2281 ppb	02:57:55
2	B 249.677†	-393.7	236.6	5.1535 ug/L	5.1535 ppb	02:57:55
2	Ba 233.527†	1.0	9.9	0.0751 ug/L	0.0751 ppb	02:57:55
2	Be 313.107†	-4154.5	102.0	0.0363 ug/L	0.0363 ppb	02:57:35
2	Cd 226.502†	-183.4	16.2	0.1689 ug/L	0.1689 ppb	02:57:55
2	Co 228.616†	-63.8	13.6	0.2660 ug/L	0.2660 ppb	02:57:55
2	Cr 267.716†	91.7	20.0	0.2148 ug/L	0.2148 ppb	02:57:55
2	Cu 324.752†	6537.2	98.1	0.2862 ug/L	0.2862 ppb	02:57:35
2	Mn 257.610†	473.7	1.1	0.0106 ug/L	0.0106 ppb	02:57:55
2	Mo 202.031†	19.4	-0.8	-0.0531 ug/L	-0.0531 ppb	02:57:55
2	Ni 231.604†	77.6	-15.3	-0.3651 ug/L	-0.3651 ppb	02:57:55

2	P 214.914†	222.2	14.3	8.1843 ug/L	8.1843 ppb	02:57:55
2	Pb 220.353†	-60.4	5.9	0.6888 ug/L	0.6888 ppb	02:57:55
2	S 181.975 Axial†	48.7	4.9	6.5892 ug/L	6.5892 ppb	02:57:55
2	Sb 206.836†	40.2	11.6	3.8598 ug/L	3.8598 ppb	02:57:55
2	Se 196.026†	-32.4	-8.8	-5.2876 ug/L	-5.2876 ppb	02:57:55
2	Si 251.611†	490.7	55.3	1.6936 ug/L	1.6936 ppb	02:57:55
2	Sn 189.927†	8.7	8.0	1.3490 ug/L	1.3490 ppb	02:57:55
2	Ti 334.940†	-1301.9	27.1	0.0566 ug/L	0.0566 ppb	02:57:35
2	Tl 190.801†	-35.1	3.8	1.1002 ug/L	1.1002 ppb	02:57:55
2	U 409.014†	-2062.1	-18.5	-0.5277 ug/L	-0.5277 ppb	02:57:35
2	V 292.402†	-1367.2	1.3	0.0000 ug/L	0.0000 ppb	02:57:35
2	Zn 213.857†	700.6	-284.7	-2.5740 ug/L	-2.5740 ppb	02:57:55
2	SiO2†	451.8	0.3	0.0209 ug/L	0.0209 ppb	02:58:31
3	Sc Radial	5212.2	5212.2	98.2 %		02:56:43
3	Y RADIAL	5558.3	5558.3	97.99 %		02:56:43
3	Al 396.153Radial†	-13.2	3.3	2.4366 ug/L	2.4366 ppb	02:56:43
3	Ca 317.933Radial†	24.2	3.1	4.7416 ug/L	4.7416 ppb	02:57:03
3	Fe 238.204 Radial†	12.9	3.0	24.510 ug/L	24.510 ppb	02:57:03
3	K 766.490 Radial†	3141.7	552.3	100.05 ug/L	100.05 ppb	02:56:43
3	Mg 279.077 IEC†	5.8	2.6	82.655 ug/L	82.655 ppb	02:57:03
3	Na 589.592 Radial†	-1603.7	-16.9	-4.9317 ug/L	-4.9317 ppb	02:56:43
3	Sr 421.552†	-24.9	-41.1	-0.2594 ug/L	-0.2594 ppb	02:56:43
3	Sc 361.383	852935.1	852935.1	97.783 %		02:58:00
3	Y 371.029	714782.6	714782.6	97.450 %		02:58:00
3	Ag 328.068†	293.4	-79.3	-0.3468 ug/L	-0.3468 ppb	02:58:00
3	As 188.979†	-23.8	-1.0	-0.3835 ug/L	-0.3835 ppb	02:58:20
3	B 249.677†	-390.8	237.1	5.1653 ug/L	5.1653 ppb	02:58:20
3	Ba 233.527†	5.7	14.7	0.1103 ug/L	0.1103 ppb	02:58:20
3	Be 313.107†	-4268.6	-41.0	-0.0145 ug/L	-0.0145 ppb	02:58:00
3	Cd 226.502†	-183.7	14.7	0.1534 ug/L	0.1534 ppb	02:58:20
3	Co 228.616†	-67.4	9.5	0.1855 ug/L	0.1855 ppb	02:58:20
3	Cr 267.716†	88.2	17.0	0.1810 ug/L	0.1810 ppb	02:58:20
3	Cu 324.752†	6517.4	119.1	0.3462 ug/L	0.3462 ppb	02:58:00
3	Mn 257.610†	453.7	-16.4	-0.0183 ug/L	-0.0183 ppb	02:58:20
3	Mo 202.031†	16.2	-4.0	-0.2664 ug/L	-0.2664 ppb	02:58:20
3	Ni 231.604†	79.7	-12.7	-0.3027 ug/L	-0.3027 ppb	02:58:20
3	P 214.914†	223.3	16.9	9.6435 ug/L	9.6435 ppb	02:58:20
3	Pb 220.353†	-51.5	14.7	1.7094 ug/L	1.7094 ppb	02:58:20
3	S 181.975 Axial†	46.7	3.2	4.3242 ug/L	4.3242 ppb	02:58:20
3	Sb 206.836†	42.5	14.3	4.7305 ug/L	4.7305 ppb	02:58:20
3	Se 196.026†	-27.1	-3.6	-2.1163 ug/L	-2.1163 ppb	02:58:20
3	Si 251.611†	472.8	40.1	1.2303 ug/L	1.2303 ppb	02:58:20
3	Sn 189.927†	5.5	4.8	0.8122 ug/L	0.8122 ppb	02:58:20
3	Ti 334.940†	-1305.0	15.8	0.0177 ug/L	0.0177 ppb	02:58:00
3	Tl 190.801†	-36.9	1.8	0.5151 ug/L	0.5151 ppb	02:58:20
3	U 409.014†	-1988.9	43.4	1.2308 ug/L	1.2308 ppb	02:58:00
3	V 292.402†	-1398.9	-39.7	-0.2627 ug/L	-0.2627 ppb	02:58:00
3	Zn 213.857†	687.7	-293.4	-2.6537 ug/L	-2.6537 ppb	02:58:20
3	SiO2†	521.7	74.6	4.8921 ug/L	4.8921 ppb	02:58:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854888.4	98.007 %		0.3334			0.34%
Sc Radial	5272.8	99.3 %		1.43			1.44%
Y 371.029	717302.6	97.793 %		0.4371			0.45%
Y RADIAL	5599.3	98.71 %		1.187			1.20%
Ag 328.068†	-100.7	-0.4414 ug/L		0.12276	-0.4414 ppb	0.12276	27.81%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	7.6	5.5606 ug/L		6.93624	5.5606 ppb	6.93624	124.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.9	-0.7572 ug/L		0.78570	-0.7572 ppb	0.78570	103.76%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	242.3	5.2774 ug/L		0.20455	5.2774 ppb	0.20455	3.88%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	14.9	0.1128 ug/L		0.03888	0.1128 ppb	0.03888	34.48%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	18.4	0.0065 ug/L		0.02654	0.0065 ppb	0.02654	409.15%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	3.4	5.1117 ug/L		3.90385	5.1117 ppb	3.90385	76.37%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	15.5	0.1613 ug/L	0.00775	0.1613 ppb	0.00775	4.80%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	8.2	0.1614 ug/L	0.11847	0.1614 ppb	0.11847	73.39%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	12.7	0.1353 ug/L	0.10962	0.1353 ppb	0.10962	80.99%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	130.7	0.3799 ug/L	0.11437	0.3799 ppb	0.11437	30.11%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.6	21.847 ug/L	3.7417	21.847 ppb	3.7417	17.13%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	545.0	98.728 ug/L	11.0004	98.728 ppb	11.0004	11.14%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.4	-42.798 ug/L	128.1258	-42.798 ppb	128.1258	299.38%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-8.7	-0.0053 ug/L	0.01466	-0.0053 ppb	0.01466	276.30%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	0.8	0.0549 ug/L	0.38682	0.0549 ppb	0.38682	704.07%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-2.2	-0.6482 ug/L	6.46269	-0.6482 ppb	6.46269	997.01%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-12.6	-0.2989 ug/L	0.06823	-0.2989 ppb	0.06823	22.83%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	12.8	7.2982 ug/L	2.89215	7.2982 ppb	2.89215	39.63%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	11.7	1.3646 ug/L	0.58527	1.3646 ppb	0.58527	42.89%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	4.0	5.3769 ug/L	1.14086	5.3769 ppb	1.14086	21.22%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	12.5	4.1670 ug/L	0.48865	4.1670 ppb	0.48865	11.73%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-4.4	-2.6136 ug/L	2.46331	-2.6136 ppb	2.46331	94.25%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	52.8	1.6160 ug/L	0.35339	1.6160 ppb	0.35339	21.87%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	9.6	1.6094 ug/L	0.95447	1.6094 ppb	0.95447	59.30%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-2.6	-0.0166 ug/L	0.21065	-0.0166 ppb	0.21065	>999.9%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-15.7	-0.0205 ug/L	0.10175	-0.0205 ppb	0.10175	497.06%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	0.8	0.2232 ug/L	1.05367	0.2232 ppb	1.05367	472.00%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	22.6	0.6382 ug/L	1.00975	0.6382 ppb	1.00975	158.23%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-3.7	-0.0264 ug/L	0.22437	-0.0264 ppb	0.22437	851.45%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-293.8	-2.6570 ug/L	0.08467	-2.6570 ppb	0.08467	3.19%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		39.6	2.5919 ug/L	2.44683	2.5919 ppb	2.44683	94.40%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 113

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 04:01:49

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	4951.7	4951.7	93.2 %		04:03:42
1	Y RADIAL	5229.2	5229.2	92.19 %		04:03:42
1	Al 396.153Radial†	6593.4	7087.7	5142.9 ug/L	5142.9 ppb	04:03:42
1	Ca 317.933Radial†	3239.7	3452.8	5247.3 ug/L	5247.3 ppb	04:04:02
1	Fe 238.204 Radial†	622.4	657.3	5434.1 ug/L	5434.1 ppb	04:04:02
1	K 766.490 Radial†	30691.5	30266.1	5475.6 ug/L	5475.6 ppb	04:03:42
1	Mg 279.077 IEC†	164.8	173.5	5422.6 ug/L	5422.6 ppb	04:04:02
1	Na 589.592 Radial†	34021.7	38103.1	11104 ug/L	11104 ppb	04:03:42
1	Sr 421.552†	79738.6	85499.0	540.07 ug/L	540.07 ppb	04:03:42
1	Sc 361.383	848145.6	848145.6	97.234 %		04:05:00
1	Y 371.029	698340.6	698340.6	95.208 %		04:05:00
1	Ag 328.068†	114140.8	117009.0	523.90 ug/L	523.90 ppb	04:05:05
1	As 188.979†	1193.2	1250.6	512.23 ug/L	512.23 ppb	04:05:25
1	B 249.677†	22164.2	23431.6	508.49 ug/L	508.49 ppb	04:05:05
1	Ba 233.527†	66607.1	68511.0	516.52 ug/L	516.52 ppb	04:05:05
1	Be 313.107†	1385992.6	1429750.0	508.91 ug/L	508.91 ppb	04:05:00
1	Cd 226.502†	46944.8	48483.1	513.30 ug/L	513.30 ppb	04:05:05
1	Co 228.616†	25516.9	26321.3	516.48 ug/L	516.48 ppb	04:05:05
1	Cr 267.716†	46662.7	47917.1	512.66 ug/L	512.66 ppb	04:05:05
1	Cu 324.752†	178519.0	177052.0	513.54 ug/L	513.54 ppb	04:05:05
1	Mn 257.610†	474011.1	487016.8	515.63 ug/L	515.63 ppb	04:05:00
1	Mo 202.031†	7400.2	7590.2	512.95 ug/L	512.95 ppb	04:05:25
1	Ni 231.604†	21051.0	21555.7	512.80 ug/L	512.80 ppb	04:05:05
1	P 214.914†	4538.4	4456.0	2464.8 ug/L	2464.8 ppb	04:05:25
1	Pb 220.353†	4199.1	4385.9	513.25 ug/L	513.25 ppb	04:05:25
1	S 181.975 Axial†	797.7	775.8	1033.4 ug/L	1033.4 ppb	04:05:25
1	Sb 206.836†	1526.3	1540.5	527.89 ug/L	527.89 ppb	04:05:25
1	Se 196.026†	798.3	845.1	533.81 ug/L	533.81 ppb	04:05:25
1	Si 251.611†	82753.9	84664.8	2585.8 ug/L	2585.8 ppb	04:05:05
1	Sn 189.927†	2984.4	3068.6	515.55 ug/L	515.55 ppb	04:05:25
1	Ti 334.940†	316256.5	326604.7	506.91 ug/L	506.91 ppb	04:05:05
1	Tl 190.801†	1672.0	1759.1	515.78 ug/L	515.78 ppb	04:05:25
1	U 409.014†	15721.0	18245.7	516.71 ug/L	516.71 ppb	04:05:05
1	V 292.402†	74667.1	78182.4	517.78 ug/L	517.78 ppb	04:05:05
1	Zn 213.857†	56461.9	57071.5	511.48 ug/L	511.48 ppb	04:05:05
1	SiO2†	82167.0	84045.8	5488.3 ug/L	5488.3 ppb	04:06:32
2	Sc Radial	5011.0	5011.0	94.4 %		04:04:07
2	Y RADIAL	5289.8	5289.8	93.26 %		04:04:07
2	Al 396.153Radial†	6711.8	7129.4	5172.9 ug/L	5172.9 ppb	04:04:07
2	Ca 317.933Radial†	3242.5	3414.6	5189.3 ug/L	5189.3 ppb	04:04:27
2	Fe 238.204 Radial†	624.6	651.7	5388.4 ug/L	5388.4 ppb	04:04:27
2	K 766.490 Radial†	30944.1	30143.8	5453.4 ug/L	5453.4 ppb	04:04:07
2	Mg 279.077 IEC†	166.1	172.8	5400.4 ug/L	5400.4 ppb	04:04:27
2	Na 589.592 Radial†	34709.3	38399.5	11190 ug/L	11190 ppb	04:04:07
2	Sr 421.552†	81192.0	86025.9	543.40 ug/L	543.40 ppb	04:04:07
2	Sc 361.383	839482.5	839482.5	96.240 %		04:05:31
2	Y 371.029	693108.6	693108.6	94.495 %		04:05:31
2	Ag 328.068†	114023.7	118098.7	528.76 ug/L	528.76 ppb	04:05:36
2	As 188.979†	1208.3	1278.9	523.75 ug/L	523.75 ppb	04:05:56
2	B 249.677†	22204.5	23708.7	514.51 ug/L	514.51 ppb	04:05:36
2	Ba 233.527†	66804.0	69422.4	523.38 ug/L	523.38 ppb	04:05:36
2	Be 313.107†	1386567.5	1445057.2	514.36 ug/L	514.36 ppb	04:05:31
2	Cd 226.502†	47058.2	49099.1	519.84 ug/L	519.84 ppb	04:05:36
2	Co 228.616†	25665.5	26746.5	524.82 ug/L	524.82 ppb	04:05:36
2	Cr 267.716†	46771.0	48524.8	519.16 ug/L	519.16 ppb	04:05:36
2	Cu 324.752†	178758.6	179195.7	519.75 ug/L	519.75 ppb	04:05:36
2	Mn 257.610†	473391.4	491403.7	520.27 ug/L	520.27 ppb	04:05:31
2	Mo 202.031†	7427.9	7697.6	520.19 ug/L	520.19 ppb	04:05:56
2	Ni 231.604†	21116.3	21847.0	519.73 ug/L	519.73 ppb	04:05:36

2	P 214.914†	4545.4	4511.5	2495.6 ug/L	2495.6 ppb	04:05:56
2	Pb 220.353†	4232.3	4465.0	522.50 ug/L	522.50 ppb	04:05:56
2	S 181.975 Axial†	795.5	782.0	1041.6 ug/L	1041.6 ppb	04:05:56
2	Sb 206.836†	1558.0	1589.6	544.38 ug/L	544.38 ppb	04:05:56
2	Se 196.026†	798.2	853.5	538.78 ug/L	538.78 ppb	04:05:56
2	Si 251.611†	83009.5	85808.8	2620.7 ug/L	2620.7 ppb	04:05:36
2	Sn 189.927†	2986.6	3102.5	521.24 ug/L	521.24 ppb	04:05:56
2	Ti 334.940†	316755.8	330480.0	512.91 ug/L	512.91 ppb	04:05:36
2	Tl 190.801†	1679.1	1784.2	523.11 ug/L	523.11 ppb	04:05:56
2	U 409.014†	15891.3	18589.5	526.47 ug/L	526.47 ppb	04:05:36
2	V 292.402†	74780.7	79092.9	523.85 ug/L	523.85 ppb	04:05:36
2	Zn 213.857†	56503.2	57713.8	517.24 ug/L	517.24 ppb	04:05:36
2	SiO2†	81770.7	84506.1	5518.3 ug/L	5518.3 ppb	04:06:37
3	Sc Radial	4964.1	4964.1	93.5 %		04:04:32
3	Y RADIAL	5251.1	5251.1	92.57 %		04:04:32
3	Al 396.153Radial†	6642.2	7122.2	5167.6 ug/L	5167.6 ppb	04:04:32
3	Ca 317.933Radial†	3268.0	3474.4	5280.2 ug/L	5280.2 ppb	04:04:52
3	Fe 238.204 Radial†	629.0	662.6	5478.7 ug/L	5478.7 ppb	04:04:52
3	K 766.490 Radial†	30565.8	30049.2	5436.2 ug/L	5436.2 ppb	04:04:32
3	Mg 279.077 IEC†	164.0	172.2	5382.7 ug/L	5382.7 ppb	04:04:52
3	Na 589.592 Radial†	34114.6	38111.1	11106 ug/L	11106 ppb	04:04:32
3	Sr 421.552†	80122.1	85694.9	541.31 ug/L	541.31 ppb	04:04:32
3	Sc 361.383	838658.4	838658.4	96.146 %		04:06:02
3	Y 371.029	691077.1	691077.1	94.218 %		04:06:02
3	Ag 328.068†	113405.6	117572.2	526.44 ug/L	526.44 ppb	04:06:07
3	As 188.979†	1212.2	1284.2	525.91 ug/L	525.91 ppb	04:06:27
3	B 249.677†	22174.3	23700.0	514.31 ug/L	514.31 ppb	04:06:07
3	Ba 233.527†	66628.8	69308.4	522.53 ug/L	522.53 ppb	04:06:07
3	Be 313.107†	1384574.3	1444399.8	514.12 ug/L	514.12 ppb	04:06:02
3	Cd 226.502†	47075.3	49165.0	520.53 ug/L	520.53 ppb	04:06:07
3	Co 228.616†	25601.6	26706.2	524.04 ug/L	524.04 ppb	04:06:07
3	Cr 267.716†	46653.5	48450.4	518.37 ug/L	518.37 ppb	04:06:07
3	Cu 324.752†	177309.9	177871.4	515.92 ug/L	515.92 ppb	04:06:07
3	Mn 257.610†	474011.8	492532.3	521.47 ug/L	521.47 ppb	04:06:02
3	Mo 202.031†	7413.3	7689.9	519.68 ug/L	519.68 ppb	04:06:27
3	Ni 231.604†	21125.9	21878.6	520.48 ug/L	520.48 ppb	04:06:07
3	P 214.914†	4542.3	4512.8	2497.1 ug/L	2497.1 ppb	04:06:27
3	Pb 220.353†	4212.9	4449.1	520.64 ug/L	520.64 ppb	04:06:27
3	S 181.975 Axial†	795.4	782.7	1042.6 ug/L	1042.6 ppb	04:06:27
3	Sb 206.836†	1536.3	1568.7	537.50 ug/L	537.50 ppb	04:06:27
3	Se 196.026†	805.6	862.1	544.29 ug/L	544.29 ppb	04:06:27
3	Si 251.611†	82544.9	85410.3	2608.5 ug/L	2608.5 ppb	04:06:07
3	Sn 189.927†	2998.3	3117.7	523.80 ug/L	523.80 ppb	04:06:27
3	Ti 334.940†	315112.3	329094.0	510.78 ug/L	510.78 ppb	04:06:07
3	Tl 190.801†	1685.9	1793.0	525.68 ug/L	525.68 ppb	04:06:27
3	U 409.014†	15694.6	18401.1	521.10 ug/L	521.10 ppb	04:06:07
3	V 292.402†	74491.7	78868.7	522.36 ug/L	522.36 ppb	04:06:07
3	Zn 213.857†	56451.3	57717.4	517.26 ug/L	517.26 ppb	04:06:07
3	SiO2†	82063.9	84894.6	5543.7 ug/L	5543.7 ppb	04:06:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842095.5	96.540 %	0.6025			0.62%
Sc Radial	4975.6	93.7 %	0.59			0.63%
Y 371.029	694175.5	94.640 %	0.5109			0.54%
Y RADIAL	5256.7	92.67 %	0.541			0.58%
Ag 328.068†	117560.0	526.37 ug/L	2.426	526.37 ppb	2.426	0.46%
QC value within limits for Ag 328.068 Recovery = 105.27%						
Al 396.153Radial†	7113.1	5161.1 ug/L	16.04	5161.1 ppb	16.04	0.31%
QC value within limits for Al 396.153Radial Recovery = 103.22%						
As 188.979†	1271.2	520.63 ug/L	7.355	520.63 ppb	7.355	1.41%
QC value within limits for As 188.979 Recovery = 104.13%						
B 249.677†	23613.4	512.44 ug/L	3.421	512.44 ppb	3.421	0.67%
QC value within limits for B 249.677 Recovery = 102.49%						
Ba 233.527†	69080.6	520.81 ug/L	3.741	520.81 ppb	3.741	0.72%
QC value within limits for Ba 233.527 Recovery = 104.16%						
Be 313.107†	1439735.7	512.46 ug/L	3.080	512.46 ppb	3.080	0.60%
QC value within limits for Be 313.107 Recovery = 102.49%						
Ca 317.933Radial†	3447.2	5238.9 ug/L	46.04	5238.9 ppb	46.04	0.88%

QC value within limits for Ca 317.933 Radial Recovery = 104.78%							
Cd 226.502†	48915.7	517.89 ug/L	3.986	517.89 ppb	3.986	0.77%	
QC value within limits for Cd 226.502 Recovery = 103.58%							
Co 228.616†	26591.3	521.78 ug/L	4.609	521.78 ppb	4.609	0.88%	
QC value within limits for Co 228.616 Recovery = 104.36%							
Cr 267.716†	48297.4	516.73 ug/L	3.545	516.73 ppb	3.545	0.69%	
QC value within limits for Cr 267.716 Recovery = 103.35%							
Cu 324.752†	178039.7	516.40 ug/L	3.133	516.40 ppb	3.133	0.61%	
QC value within limits for Cu 324.752 Recovery = 103.28%							
Fe 238.204 Radial†	657.2	5433.7 ug/L	45.16	5433.7 ppb	45.16	0.83%	
QC value within limits for Fe 238.204 Radial Recovery = 108.67%							
K 766.490 Radial†	30153.0	5455.1 ug/L	19.71	5455.1 ppb	19.71	0.36%	
QC value within limits for K 766.490 Radial Recovery = 109.10%							
Mg 279.077 IEC†	172.8	5401.9 ug/L	20.01	5401.9 ppb	20.01	0.37%	
QC value within limits for Mg 279.077 IEC Recovery = 108.04%							
Mn 257.610†	490317.6	519.12 ug/L	3.085	519.12 ppb	3.085	0.59%	
QC value within limits for Mn 257.610 Recovery = 103.82%							
Mo 202.031†	7659.2	517.61 ug/L	4.042	517.61 ppb	4.042	0.78%	
QC value within limits for Mo 202.031 Recovery = 103.52%							
Na 589.592 Radial†	38204.6	11134 ug/L	49.2	11134 ppb	49.2	0.44%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 111.34%							
Ni 231.604†	21760.4	517.67 ug/L	4.234	517.67 ppb	4.234	0.82%	
QC value within limits for Ni 231.604 Recovery = 103.53%							
P 214.914†	4493.4	2485.9 ug/L	18.23	2485.9 ppb	18.23	0.73%	
QC value within limits for P 214.914 Recovery = 99.43%							
Pb 220.353†	4433.3	518.80 ug/L	4.891	518.80 ppb	4.891	0.94%	
QC value within limits for Pb 220.353 Recovery = 103.76%							
S 181.975 Axial†	780.2	1039.2 ug/L	5.04	1039.2 ppb	5.04	0.49%	
QC value within limits for S 181.975 Axial Recovery = 103.92%							
Sb 206.836†	1566.3	536.59 ug/L	8.285	536.59 ppb	8.285	1.54%	
QC value within limits for Sb 206.836 Recovery = 107.32%							
Se 196.026†	853.6	538.96 ug/L	5.238	538.96 ppb	5.238	0.97%	
QC value within limits for Se 196.026 Recovery = 107.79%							
Si 251.611†	85294.6	2605.0 ug/L	17.73	2605.0 ppb	17.73	0.68%	
QC value within limits for Si 251.611 Recovery = 104.20%							
Sn 189.927†	3096.3	520.20 ug/L	4.223	520.20 ppb	4.223	0.81%	
QC value within limits for Sn 189.927 Recovery = 104.04%							
Sr 421.552†	85739.9	541.59 ug/L	1.683	541.59 ppb	1.683	0.31%	
QC value within limits for Sr 421.552 Recovery = 108.32%							
Ti 334.940†	328726.2	510.20 ug/L	3.043	510.20 ppb	3.043	0.60%	
QC value within limits for Ti 334.940 Recovery = 102.04%							
Tl 190.801†	1778.7	521.53 ug/L	5.136	521.53 ppb	5.136	0.98%	
QC value within limits for Tl 190.801 Recovery = 104.31%							
U 409.014†	18412.1	521.42 ug/L	4.888	521.42 ppb	4.888	0.94%	
QC value within limits for U 409.014 Recovery = 104.28%							
V 292.402†	78714.7	521.33 ug/L	3.162	521.33 ppb	3.162	0.61%	
QC value within limits for V 292.402 Recovery = 104.27%							
Zn 213.857†	57500.9	515.33 ug/L	3.331	515.33 ppb	3.331	0.65%	
QC value within limits for Zn 213.857 Recovery = 103.07%							
SiO2†	84482.1	5516.8 ug/L	27.72	5516.8 ppb	27.72	0.50%	
QC value within limits for SiO2 Recovery = 103.17%							
QC Failed. Continue with analysis.							

Sequence No.: 114
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/14/2010 04:08:52
 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	5028.6	5028.6	94.7 %		04:10:45
1	Y RADIAL	5349.8	5349.8	94.31 %		04:10:45
1	Al 396.153Radial†	-10.6	5.6	4.0365 ug/L	4.0365 ppb	04:10:45
1	Ca 317.933Radial†	22.7	2.4	3.7176 ug/L	3.7176 ppb	04:11:05
1	Fe 238.204 Radial†	10.3	0.7	5.6860 ug/L	5.6860 ppb	04:11:05
1	K 766.490 Radial†	2941.6	457.8	82.923 ug/L	82.923 ppb	04:10:45
1	Mg 279.077 IEC†	-0.0	-3.2	-100.90 ug/L	-100.90 ppb	04:11:05
1	Na 589.592 Radial†	-1570.1	-41.1	-11.966 ug/L	-11.966 ppb	04:10:45
1	Sr 421.552†	43.0	29.7	0.1878 ug/L	0.1878 ppb	04:10:45
1	Sc 361.383	819323.7	819323.7	93.929 %		04:12:02
1	Y 371.029	687236.1	687236.1	93.694 %		04:12:02
1	Ag 328.068†	378.5	23.7	0.1023 ug/L	0.1023 ppb	04:12:02
1	As 188.979†	-26.7	-5.0	-2.0346 ug/L	-2.0346 ppb	04:12:22
1	B 249.677†	-343.3	271.3	5.9148 ug/L	5.9148 ppb	04:12:22
1	Ba 233.527†	-11.1	-3.0	-0.0235 ug/L	-0.0235 ppb	04:12:22
1	Be 313.107†	-4232.0	-181.0	-0.0643 ug/L	-0.0643 ppb	04:12:02
1	Cd 226.502†	-179.8	11.2	0.1182 ug/L	0.1182 ppb	04:12:22
1	Co 228.616†	-75.8	-2.3	-0.0427 ug/L	-0.0427 ppb	04:12:22
1	Cr 267.716†	103.4	36.9	0.3922 ug/L	0.3922 ppb	04:12:22
1	Cu 324.752†	6496.3	370.2	1.0724 ug/L	1.0724 ppb	04:12:02
1	Mn 257.610†	457.7	6.8	0.0119 ug/L	0.0119 ppb	04:12:22
1	Mo 202.031†	31.3	12.8	0.8618 ug/L	0.8618 ppb	04:12:22
1	Ni 231.604†	66.2	-23.7	-0.5652 ug/L	-0.5652 ppb	04:12:22
1	P 214.914†	218.7	21.3	12.069 ug/L	12.069 ppb	04:12:22
1	Pb 220.353†	-71.2	-8.5	-0.9851 ug/L	-0.9851 ppb	04:12:22
1	S 181.975 Axial†	44.1	2.4	3.2058 ug/L	3.2058 ppb	04:12:22
1	Sb 206.836†	39.3	12.6	4.1947 ug/L	4.1947 ppb	04:12:22
1	Se 196.026†	-32.6	-10.5	-6.3828 ug/L	-6.3828 ppb	04:12:22
1	Si 251.611†	483.8	71.6	2.1812 ug/L	2.1812 ppb	04:12:22
1	Sn 189.927†	2.9	2.4	0.3954 ug/L	0.3954 ppb	04:12:22
1	Ti 334.940†	-1278.9	-11.1	-0.0099 ug/L	-0.0099 ppb	04:12:02
1	Tl 190.801†	-22.4	15.6	4.5527 ug/L	4.5527 ppb	04:12:22
1	U 409.014†	-1856.4	101.0	2.8690 ug/L	2.8690 ppb	04:12:02
1	V 292.402†	-1397.6	-97.0	-0.6193 ug/L	-0.6193 ppb	04:12:02
1	Zn 213.857†	701.6	-249.7	-2.2562 ug/L	-2.2562 ppb	04:12:22
1	SiO2†	494.8	67.8	4.4183 ug/L	4.4183 ppb	04:13:18
2	Sc Radial	4972.1	4972.1	93.6 %		04:11:10
2	Y RADIAL	5278.0	5278.0	93.05 %		04:11:10
2	Al 396.153Radial†	-14.9	0.8	0.5972 ug/L	0.5972 ppb	04:11:10
2	Ca 317.933Radial†	23.5	3.5	5.3750 ug/L	5.3750 ppb	04:11:30
2	Fe 238.204 Radial†	10.9	1.4	11.783 ug/L	11.783 ppb	04:11:30
2	K 766.490 Radial†	2890.4	438.4	79.408 ug/L	79.408 ppb	04:11:10
2	Mg 279.077 IEC†	-1.5	-4.8	-149.56 ug/L	-149.56 ppb	04:11:30
2	Na 589.592 Radial†	-1555.8	-44.7	-13.028 ug/L	-13.028 ppb	04:11:10
2	Sr 421.552†	19.9	5.6	0.0353 ug/L	0.0353 ppb	04:11:10
2	Sc 361.383	831112.1	831112.1	95.281 %		04:12:27
2	Y 371.029	696537.7	696537.7	94.962 %		04:12:27
2	Ag 328.068†	379.1	18.6	0.0814 ug/L	0.0814 ppb	04:12:27
2	As 188.979†	-26.4	-4.3	-1.7290 ug/L	-1.7290 ppb	04:12:47
2	B 249.677†	-349.9	269.5	5.8749 ug/L	5.8749 ppb	04:12:47
2	Ba 233.527†	8.2	17.4	0.1289 ug/L	0.1289 ppb	04:12:47
2	Be 313.107†	-4211.9	-96.1	-0.0342 ug/L	-0.0342 ppb	04:12:27
2	Cd 226.502†	-188.7	4.6	0.0477 ug/L	0.0477 ppb	04:12:47
2	Co 228.616†	-79.3	-4.8	-0.0955 ug/L	-0.0955 ppb	04:12:47
2	Cr 267.716†	87.2	18.3	0.1941 ug/L	0.1941 ppb	04:12:47
2	Cu 324.752†	6444.8	218.0	0.6323 ug/L	0.6323 ppb	04:12:27
2	Mn 257.610†	437.0	-21.8	-0.0158 ug/L	-0.0158 ppb	04:12:47
2	Mo 202.031†	14.4	-5.5	-0.3687 ug/L	-0.3687 ppb	04:12:47
2	Ni 231.604†	77.1	-13.3	-0.3169 ug/L	-0.3169 ppb	04:12:47

2	P 214.914†	225.0	24.6	14.059 ug/L	14.059 ppb	04:12:47
2	Pb 220.353†	-66.8	-2.8	-0.3305 ug/L	-0.3305 ppb	04:12:47
2	S 181.975 Axial†	49.7	7.6	10.190 ug/L	10.190 ppb	04:12:47
2	Sb 206.836†	41.9	14.8	4.8913 ug/L	4.8913 ppb	04:12:47
2	Se 196.026†	-38.2	-15.9	-9.6545 ug/L	-9.6545 ppb	04:12:47
2	Si 251.611†	492.3	73.2	2.2457 ug/L	2.2457 ppb	04:12:47
2	Sn 189.927†	7.4	7.0	1.1773 ug/L	1.1773 ppb	04:12:47
2	Ti 334.940†	-1308.8	-23.3	-0.0238 ug/L	-0.0238 ppb	04:12:27
2	Tl 190.801†	-33.1	4.7	1.3776 ug/L	1.3776 ppb	04:12:47
2	U 409.014†	-1936.7	44.8	1.2714 ug/L	1.2714 ppb	04:12:27
2	V 292.402†	-1473.8	-155.9	-1.0260 ug/L	-1.0260 ppb	04:12:27
2	Zn 213.857†	709.6	-251.9	-2.2777 ug/L	-2.2777 ppb	04:12:47
2	SiO2†	516.6	83.3	5.4638 ug/L	5.4638 ppb	04:13:23
3	Sc Radial	4980.9	4980.9	93.8 %		04:11:35
3	Y RADIAL	5259.3	5259.3	92.72 %		04:11:35
3	Al 396.153Radial†	-12.7	3.2	2.3699 ug/L	2.3699 ppb	04:11:35
3	Ca 317.933Radial†	19.3	-1.0	-1.5279 ug/L	-1.5279 ppb	04:11:55
3	Fe 238.204 Radial†	10.3	0.8	6.7417 ug/L	6.7417 ppb	04:11:55
3	K 766.490 Radial†	2959.2	506.4	91.718 ug/L	91.718 ppb	04:11:35
3	Mg 279.077 IEC†	3.5	0.6	17.586 ug/L	17.586 ppb	04:11:55
3	Na 589.592 Radial†	-1469.1	50.7	14.765 ug/L	14.765 ppb	04:11:35
3	Sr 421.552†	-22.2	-39.4	-0.2486 ug/L	-0.2486 ppb	04:11:35
3	Sc 361.383	824805.9	824805.9	94.558 %		04:12:53
3	Y 371.029	691070.9	691070.9	94.217 %		04:12:53
3	Ag 328.068†	352.3	-6.7	-0.0283 ug/L	-0.0283 ppb	04:12:53
3	As 188.979†	-22.5	-0.4	-0.1497 ug/L	-0.1497 ppb	04:13:13
3	B 249.677†	-382.8	232.0	5.0571 ug/L	5.0571 ppb	04:13:13
3	Ba 233.527†	2.6	11.6	0.0857 ug/L	0.0857 ppb	04:13:13
3	Be 313.107†	-4341.7	-267.2	-0.0949 ug/L	-0.0949 ppb	04:12:53
3	Cd 226.502†	-183.5	8.6	0.0890 ug/L	0.0890 ppb	04:13:13
3	Co 228.616†	-85.8	-12.3	-0.2410 ug/L	-0.2410 ppb	04:13:13
3	Cr 267.716†	101.6	34.3	0.3665 ug/L	0.3665 ppb	04:13:13
3	Cu 324.752†	6448.2	273.3	0.7945 ug/L	0.7945 ppb	04:12:53
3	Mn 257.610†	433.3	-22.2	-0.0235 ug/L	-0.0235 ppb	04:13:13
3	Mo 202.031†	19.3	-0.2	-0.0101 ug/L	-0.0101 ppb	04:13:13
3	Ni 231.604†	63.7	-26.8	-0.6381 ug/L	-0.6381 ppb	04:13:13
3	P 214.914†	222.1	23.4	13.303 ug/L	13.303 ppb	04:13:13
3	Pb 220.353†	-71.2	-8.0	-0.9332 ug/L	-0.9332 ppb	04:13:13
3	S 181.975 Axial†	47.5	5.7	7.6530 ug/L	7.6530 ppb	04:13:13
3	Sb 206.836†	42.4	15.6	5.1861 ug/L	5.1861 ppb	04:13:13
3	Se 196.026†	-23.7	-0.9	-0.5498 ug/L	-0.5498 ppb	04:13:13
3	Si 251.611†	482.7	67.0	2.0512 ug/L	2.0512 ppb	04:13:13
3	Sn 189.927†	7.8	7.4	1.2482 ug/L	1.2482 ppb	04:13:13
3	Ti 334.940†	-1282.9	-6.4	-0.0105 ug/L	-0.0105 ppb	04:12:53
3	Tl 190.801†	-30.0	7.8	2.2695 ug/L	2.2695 ppb	04:13:13
3	U 409.014†	-2052.7	-93.4	-2.6558 ug/L	-2.6558 ppb	04:12:53
3	V 292.402†	-1412.5	-102.8	-0.6781 ug/L	-0.6781 ppb	04:12:53
3	Zn 213.857†	694.7	-262.1	-2.3671 ug/L	-2.3671 ppb	04:13:13
3	SiO2†	509.2	79.6	5.2090 ug/L	5.2090 ppb	04:13:28

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825080.6	94.589 %	0.6763			0.71%
Sc Radial	4993.9	94.0 %	0.57			0.61%
Y 371.029	691614.9	94.291 %	0.6373			0.68%
Y RADIAL	5295.7	93.36 %	0.842			0.90%
Ag 328.068†	11.9	0.0518 ug/L	0.07015	0.0518 ppb	0.07015	135.47%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.2	2.3346 ug/L	1.71993	2.3346 ppb	1.71993	73.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.2	-1.3044 ug/L	1.01161	-1.3044 ppb	1.01161	77.55%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	257.6	5.6156 ug/L	0.48408	5.6156 ppb	0.48408	8.62%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.7	0.0637 ug/L	0.07853	0.0637 ppb	0.07853	123.29%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-181.4	-0.0645 ug/L	0.03035	-0.0645 ppb	0.03035	47.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.7	2.5216 ug/L	3.60353	2.5216 ppb	3.60353	142.91%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	8.1	0.0850 ug/L	0.03542	0.0850 ppb	0.03542	41.69%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-6.5	-0.1264 ug/L	0.10269	-0.1264 ppb	0.10269	81.25%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	29.8	0.3176 ug/L	0.10771	0.3176 ppb	0.10771	33.91%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	287.2	0.8330 ug/L	0.22258	0.8330 ppb	0.22258	26.72%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	1.0	8.0702 ug/L	3.25840	8.0702 ppb	3.25840	40.38%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	467.5	84.683 ug/L	6.3411	84.683 ppb	6.3411	7.49%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-2.5	-77.625 ug/L	85.9695	-77.625 ppb	85.9695	110.75%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-12.4	-0.0091 ug/L	0.01862	-0.0091 ppb	0.01862	204.39%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	2.4	0.1610 ug/L	0.63282	0.1610 ppb	0.63282	393.06%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	-11.7	-3.4095 ug/L	15.74878	-3.4095 ppb	15.74878	461.91%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-21.3	-0.5067 ug/L	0.16837	-0.5067 ppb	0.16837	33.23%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	23.1	13.143 ug/L	1.0046	13.143 ppb	1.0046	7.64%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-6.4	-0.7496 ug/L	0.36388	-0.7496 ppb	0.36388	48.54%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	5.3	7.0163 ug/L	3.53529	7.0163 ppb	3.53529	50.39%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	14.3	4.7574 ug/L	0.50909	4.7574 ppb	0.50909	10.70%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-9.1	-5.5291 ug/L	4.61200	-5.5291 ppb	4.61200	83.41%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	70.6	2.1594 ug/L	0.09911	2.1594 ppb	0.09911	4.59%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	5.6	0.9403 ug/L	0.47326	0.9403 ppb	0.47326	50.33%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-1.3	-0.0085 ug/L	0.22151	-0.0085 ppb	0.22151	>999.9%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	-13.6	-0.0147 ug/L	0.00785	-0.0147 ppb	0.00785	53.23%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	9.4	2.7333 ug/L	1.63759	2.7333 ppb	1.63759	59.91%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	17.5	0.4949 ug/L	2.84309	0.4949 ppb	2.84309	574.52%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	-118.6	-0.7745 ug/L	0.21983	-0.7745 ppb	0.21983	28.38%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-254.6	-2.3003 ug/L	0.05882	-2.3003 ppb	0.05882	2.56%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	76.9	5.0304 ug/L	0.54518	5.0304 ppb	0.54518	10.84%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 119
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/14/2010 04:43:14
 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	4840.4	4840.4	91.2 %		04:45:06
1	Y RADIAL	5119.4	5119.4	90.25 %		04:45:06
1	Al 396.153Radial†	6529.1	7179.7	5209.7 ug/L	5209.7 ppb	04:45:06
1	Ca 317.933Radial†	3220.2	3511.3	5336.3 ug/L	5336.3 ppb	04:45:26
1	Fe 238.204 Radial†	621.8	672.0	5556.0 ug/L	5556.0 ppb	04:45:26
1	K 766.490 Radial†	30068.5	30339.1	5488.6 ug/L	5488.6 ppb	04:45:06
1	Mg 279.077 IEC†	163.6	176.3	5510.3 ug/L	5510.3 ppb	04:45:26
1	Na 589.592 Radial†	34015.2	38934.6	11346 ug/L	11346 ppb	04:45:06
1	Sr 421.552†	78872.2	86514.0	546.48 ug/L	546.48 ppb	04:45:06
1	Sc 361.383	826534.6	826534.6	94.756 %		04:46:24
1	Y 371.029	682857.2	682857.2	93.097 %		04:46:24
1	Ag 328.068†	111599.2	117396.0	525.68 ug/L	525.68 ppb	04:46:29
1	As 188.979†	1164.2	1252.1	512.85 ug/L	512.85 ppb	04:46:49
1	B 249.677†	21553.8	23383.4	507.41 ug/L	507.41 ppb	04:46:29
1	Ba 233.527†	65401.0	69029.3	520.42 ug/L	520.42 ppb	04:46:29
1	Be 313.107†	1367096.8	1447078.3	515.07 ug/L	515.07 ppb	04:46:24
1	Cd 226.502†	46088.1	48841.3	517.09 ug/L	517.09 ppb	04:46:29
1	Co 228.616†	24962.6	26422.5	518.47 ug/L	518.47 ppb	04:46:29
1	Cr 267.716†	45890.5	48356.9	517.37 ug/L	517.37 ppb	04:46:29
1	Cu 324.752†	173695.4	176761.9	512.71 ug/L	512.71 ppb	04:46:29
1	Mn 257.610†	466814.5	492168.3	521.09 ug/L	521.09 ppb	04:46:24
1	Mo 202.031†	7287.7	7670.4	518.37 ug/L	518.37 ppb	04:46:49
1	Ni 231.604†	20661.1	21710.3	516.48 ug/L	516.48 ppb	04:46:29
1	P 214.914†	4474.3	4510.4	2496.3 ug/L	2496.3 ppb	04:46:49
1	Pb 220.353†	4123.5	4419.0	517.13 ug/L	517.13 ppb	04:46:49
1	S 181.975 Axial†	783.4	782.2	1041.9 ug/L	1041.9 ppb	04:46:49
1	Sb 206.836†	1510.0	1564.3	535.99 ug/L	535.99 ppb	04:46:49
1	Se 196.026†	784.9	852.5	538.74 ug/L	538.74 ppb	04:46:49
1	Si 251.611†	80886.4	84919.3	2593.5 ug/L	2593.5 ppb	04:46:29
1	Sn 189.927†	2943.5	3105.7	521.80 ug/L	521.80 ppb	04:46:49
1	Ti 334.940†	309106.9	327563.7	508.40 ug/L	508.40 ppb	04:46:29
1	Tl 190.801†	1658.0	1789.2	524.58 ug/L	524.58 ppb	04:46:49
1	U 409.014†	15267.8	18190.1	515.10 ug/L	515.10 ppb	04:46:29
1	V 292.402†	73121.2	78558.8	520.30 ug/L	520.30 ppb	04:46:29
1	Zn 213.857†	55152.6	57208.1	512.68 ug/L	512.68 ppb	04:46:29
1	SiO2†	82629.1	86743.0	5664.7 ug/L	5664.7 ppb	04:47:56
2	Sc Radial	4891.2	4891.2	92.1 %		04:45:31
2	Y RADIAL	5234.3	5234.3	92.28 %		04:45:31
2	Al 396.153Radial†	6650.2	7236.8	5251.6 ug/L	5251.6 ppb	04:45:31
2	Ca 317.933Radial†	3246.4	3503.0	5323.7 ug/L	5323.7 ppb	04:45:51
2	Fe 238.204 Radial†	621.8	664.9	5497.5 ug/L	5497.5 ppb	04:45:51
2	K 766.490 Radial†	30628.6	30604.5	5536.7 ug/L	5536.7 ppb	04:45:31
2	Mg 279.077 IEC†	164.5	175.4	5481.3 ug/L	5481.3 ppb	04:45:51
2	Na 589.592 Radial†	34776.9	39373.9	11474 ug/L	11474 ppb	04:45:31
2	Sr 421.552†	80732.9	87635.1	553.57 ug/L	553.57 ppb	04:45:31
2	Sc 361.383	837560.1	837560.1	96.020 %		04:46:55
2	Y 371.029	689283.0	689283.0	93.973 %		04:46:55
2	Ag 328.068†	113377.8	117697.9	527.01 ug/L	527.01 ppb	04:47:00
2	As 188.979†	1180.0	1252.3	512.99 ug/L	512.99 ppb	04:47:20
2	B 249.677†	22067.7	23619.1	512.55 ug/L	512.55 ppb	04:47:00
2	Ba 233.527†	66462.1	69225.8	521.90 ug/L	521.90 ppb	04:47:00
2	Be 313.107†	1365669.6	1426599.9	507.80 ug/L	507.80 ppb	04:46:55
2	Cd 226.502†	46771.6	48912.8	517.85 ug/L	517.85 ppb	04:47:00
2	Co 228.616†	25519.4	26655.6	523.02 ug/L	523.02 ppb	04:47:00
2	Cr 267.716†	46435.4	48286.9	516.62 ug/L	516.62 ppb	04:47:00
2	Cu 324.752†	177731.0	178551.8	517.89 ug/L	517.89 ppb	04:47:00
2	Mn 257.610†	468347.2	487279.3	515.91 ug/L	515.91 ppb	04:46:55
2	Mo 202.031†	7278.6	7559.7	510.89 ug/L	510.89 ppb	04:47:20
2	Ni 231.604†	20987.0	21762.7	517.72 ug/L	517.72 ppb	04:47:00

2	P 214.914†	4441.6	4414.2	2439.9 ug/L	2439.9 ppb	04:47:20
2	Pb 220.353†	4138.3	4377.2	512.25 ug/L	512.25 ppb	04:47:20
2	S 181.975 Axial†	784.6	772.5	1029.0 ug/L	1029.0 ppb	04:47:20
2	Sb 206.836†	1507.8	1541.1	528.04 ug/L	528.04 ppb	04:47:20
2	Se 196.026†	781.1	837.6	529.44 ug/L	529.44 ppb	04:47:20
2	Si 251.611†	82561.8	85540.5	2612.6 ug/L	2612.6 ppb	04:47:00
2	Sn 189.927†	2946.5	3067.9	515.45 ug/L	515.45 ppb	04:47:20
2	Ti 334.940†	315308.4	329728.1	511.76 ug/L	511.76 ppb	04:47:00
2	Tl 190.801†	1646.8	1754.5	514.46 ug/L	514.46 ppb	04:47:20
2	U 409.014†	15574.6	18297.6	518.16 ug/L	518.16 ppb	04:47:00
2	V 292.402†	74371.5	78845.1	522.07 ug/L	522.07 ppb	04:47:00
2	Zn 213.857†	56183.5	57515.6	515.45 ug/L	515.45 ppb	04:47:00
2	SiO2†	82030.8	84972.0	5549.0 ug/L	5549.0 ppb	04:48:01
3	Sc Radial	5051.0	5051.0	95.1 %		04:45:56
3	Y RADIAL	5340.2	5340.2	94.14 %		04:45:56
3	Al 396.153Radial†	6626.7	6983.6	5064.5 ug/L	5064.5 ppb	04:45:56
3	Ca 317.933Radial†	3236.8	3381.5	5138.9 ug/L	5138.9 ppb	04:46:16
3	Fe 238.204 Radial†	624.1	645.9	5342.0 ug/L	5342.0 ppb	04:46:16
3	K 766.490 Radial†	30379.3	29290.4	5298.8 ug/L	5298.8 ppb	04:45:56
3	Mg 279.077 IEC†	168.1	173.5	5424.7 ug/L	5424.7 ppb	04:46:16
3	Na 589.592 Radial†	34377.5	37759.4	11004 ug/L	11004 ppb	04:45:56
3	Sr 421.552†	80307.7	84414.9	533.23 ug/L	533.23 ppb	04:45:56
3	Sc 361.383	763018.9	763018.9	87.474 %		04:47:26
3	Y 371.029	629448.2	629448.2	85.816 %		04:47:26
3	Ag 328.068†	112012.7	127672.6	571.48 ug/L	571.48 ppb	04:47:31
3	As 188.979†	1165.8	1356.2	555.35 ug/L	555.35 ppb	04:47:51
3	B 249.677†	21706.6	25451.6	552.41 ug/L	552.41 ppb	04:47:31
3	Ba 233.527†	65354.3	74721.2	563.32 ug/L	563.32 ppb	04:47:31
3	Be 313.107†	1380104.1	1582046.9	563.10 ug/L	563.10 ppb	04:47:26
3	Cd 226.502†	46136.1	52944.9	560.60 ug/L	560.60 ppb	04:47:31
3	Co 228.616†	25076.4	28745.6	564.06 ug/L	564.06 ppb	04:47:31
3	Cr 267.716†	45946.4	52452.3	561.18 ug/L	561.18 ppb	04:47:31
3	Cu 324.752†	175033.8	193551.0	561.37 ug/L	561.37 ppb	04:47:31
3	Mn 257.610†	471420.7	538443.5	570.04 ug/L	570.04 ppb	04:47:26
3	Mo 202.031†	7297.9	8322.4	562.37 ug/L	562.37 ppb	04:47:51
3	Ni 231.604†	20708.4	23579.4	560.94 ug/L	560.94 ppb	04:47:31
3	P 214.914†	4425.3	4847.4	2681.2 ug/L	2681.2 ppb	04:47:51
3	Pb 220.353†	4133.2	4792.4	560.75 ug/L	560.75 ppb	04:47:51
3	S 181.975 Axial†	771.6	837.6	1115.7 ug/L	1115.7 ppb	04:47:51
3	Sb 206.836†	1511.2	1698.3	581.84 ug/L	581.84 ppb	04:47:51
3	Se 196.026†	780.4	916.2	576.92 ug/L	576.92 ppb	04:47:51
3	Si 251.611†	81153.0	92329.9	2819.9 ug/L	2819.9 ppb	04:47:31
3	Sn 189.927†	2930.2	3349.0	562.57 ug/L	562.57 ppb	04:47:51
3	Ti 334.940†	310251.5	356027.1	552.54 ug/L	552.54 ppb	04:47:31
3	Tl 190.801†	1653.2	1929.4	565.75 ug/L	565.75 ppb	04:47:51
3	U 409.014†	15224.4	19481.8	551.73 ug/L	551.73 ppb	04:47:31
3	V 292.402†	73424.4	85329.0	565.20 ug/L	565.20 ppb	04:47:31
3	Zn 213.857†	55261.4	62177.6	557.28 ug/L	557.28 ppb	04:47:31
3	SiO2†	82893.2	94303.9	6158.5 ug/L	6158.5 ppb	04:48:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809037.9	92.750 %	4.6124			4.97%
Sc Radial	4927.6	92.8 %	2.07			2.23%
Y 371.029	667196.1	90.962 %	4.4783			4.92%
Y RADIAL	5231.3	92.22 %	1.947			2.11%
Ag 328.068†	120922.2	541.39 ug/L	26.069	541.39 ppb	26.069	4.82%
QC value within limits for Ag 328.068 Recovery = 108.28%						
Al 396.153Radial†	7133.4	5175.3 ug/L	98.18	5175.3 ppb	98.18	1.90%
QC value within limits for Al 396.153Radial Recovery = 103.51%						
As 188.979†	1286.9	527.06 ug/L	24.497	527.06 ppb	24.497	4.65%
QC value within limits for As 188.979 Recovery = 105.41%						
B 249.677†	24151.4	524.12 ug/L	24.629	524.12 ppb	24.629	4.70%
QC value within limits for B 249.677 Recovery = 104.82%						
Ba 233.527†	70992.1	535.22 ug/L	24.350	535.22 ppb	24.350	4.55%
QC value within limits for Ba 233.527 Recovery = 107.04%						
Be 313.107†	1485241.7	528.65 ug/L	30.049	528.65 ppb	30.049	5.68%
QC value within limits for Be 313.107 Recovery = 105.73%						
Ca 317.933Radial†	3465.3	5266.3 ug/L	110.48	5266.3 ppb	110.48	2.10%

QC value within limits for Ca 317.933 Radial Recovery = 105.33%							
Cd 226.502†	50233.0	531.85 ug/L	24.905	531.85 ppb	24.905	4.68%	
QC value within limits for Cd 226.502 Recovery = 106.37%							
Co 228.616†	27274.5	535.18 ug/L	25.112	535.18 ppb	25.112	4.69%	
QC value within limits for Co 228.616 Recovery = 107.04%							
Cr 267.716†	49698.7	531.72 ug/L	25.510	531.72 ppb	25.510	4.80%	
QC value within limits for Cr 267.716 Recovery = 106.34%							
Cu 324.752†	182954.9	530.66 ug/L	26.726	530.66 ppb	26.726	5.04%	
QC value within limits for Cu 324.752 Recovery = 106.13%							
Fe 238.204 Radial†	661.0	5465.2 ug/L	110.60	5465.2 ppb	110.60	2.02%	
QC value within limits for Fe 238.204 Radial Recovery = 109.30%							
K 766.490 Radial†	30078.0	5441.4 ug/L	125.79	5441.4 ppb	125.79	2.31%	
QC value within limits for K 766.490 Radial Recovery = 108.83%							
Mg 279.077 IEC†	175.0	5472.1 ug/L	43.51	5472.1 ppb	43.51	0.80%	
QC value within limits for Mg 279.077 IEC Recovery = 109.44%							
Mn 257.610†	505963.7	535.68 ug/L	29.866	535.68 ppb	29.866	5.58%	
QC value within limits for Mn 257.610 Recovery = 107.14%							
Mo 202.031†	7850.8	530.54 ug/L	27.814	530.54 ppb	27.814	5.24%	
QC value within limits for Mo 202.031 Recovery = 106.11%							
Na 589.592 Radial†	38689.3	11275 ug/L	243.3	11275 ppb	243.3	2.16%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 112.75%							
Ni 231.604†	22350.8	531.71 ug/L	25.321	531.71 ppb	25.321	4.76%	
QC value within limits for Ni 231.604 Recovery = 106.34%							
P 214.914†	4590.7	2539.1 ug/L	126.21	2539.1 ppb	126.21	4.97%	
QC value within limits for P 214.914 Recovery = 101.56%							
Pb 220.353†	4529.5	530.04 ug/L	26.703	530.04 ppb	26.703	5.04%	
QC value within limits for Pb 220.353 Recovery = 106.01%							
S 181.975 Axial†	797.5	1062.2 ug/L	46.82	1062.2 ppb	46.82	4.41%	
QC value within limits for S 181.975 Axial Recovery = 106.22%							
Sb 206.836†	1601.2	548.62 ug/L	29.037	548.62 ppb	29.037	5.29%	
QC value within limits for Sb 206.836 Recovery = 109.72%							
Se 196.026†	868.8	548.37 ug/L	25.162	548.37 ppb	25.162	4.59%	
QC value within limits for Se 196.026 Recovery = 109.67%							
Si 251.611†	87596.6	2675.3 ug/L	125.53	2675.3 ppb	125.53	4.69%	
QC value within limits for Si 251.611 Recovery = 107.01%							
Sn 189.927†	3174.2	533.27 ug/L	25.567	533.27 ppb	25.567	4.79%	
QC value within limits for Sn 189.927 Recovery = 106.65%							
Sr 421.552†	86188.0	544.43 ug/L	10.326	544.43 ppb	10.326	1.90%	
QC value within limits for Sr 421.552 Recovery = 108.89%							
Ti 334.940†	337772.9	524.23 ug/L	24.571	524.23 ppb	24.571	4.69%	
QC value within limits for Ti 334.940 Recovery = 104.85%							
Tl 190.801†	1824.4	534.93 ug/L	27.163	534.93 ppb	27.163	5.08%	
QC value within limits for Tl 190.801 Recovery = 106.99%							
U 409.014†	18656.5	528.33 ug/L	20.324	528.33 ppb	20.324	3.85%	
QC value within limits for U 409.014 Recovery = 105.67%							
V 292.402†	80911.0	535.86 ug/L	25.429	535.86 ppb	25.429	4.75%	
QC value within limits for V 292.402 Recovery = 107.17%							
Zn 213.857†	58967.1	528.47 ug/L	24.988	528.47 ppb	24.988	4.73%	
QC value within limits for Zn 213.857 Recovery = 105.69%							
SiO2†	88672.9	5790.8 ug/L	323.72	5790.8 ppb	323.72	5.59%	
QC value within limits for SiO2 Recovery = 108.29%							
QC Failed. Continue with analysis.							

Sequence No.: 120
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 17
 Date Collected: 1/14/2010 04:50:17
 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	5123.1	5123.1	96.5 %		04:52:09
1	Y RADIAL	5439.0	5439.0	95.89 %		04:52:09
1	Al 396.153Radial†	250.5	276.4	201.02 ug/L	201.02 ppb	04:52:09
1	Ca 317.933Radial†	137.7	121.2	184.23 ug/L	184.23 ppb	04:52:29
1	Fe 238.204 Radial†	25.9	16.6	137.21 ug/L	137.21 ppb	04:52:29
1	K 766.490 Radial†	3734.0	1221.8	221.12 ug/L	221.12 ppb	04:52:09
1	Mg 279.077 IEC†	11.7	8.9	278.59 ug/L	278.59 ppb	04:52:29
1	Na 589.592 Radial†	-465.1	1134.9	330.74 ug/L	330.74 ppb	04:52:09
1	Sr 421.552†	766.4	778.7	4.9176 ug/L	4.9176 ppb	04:52:09
1	Sc 361.383	822325.9	822325.9	94.274 %		04:53:26
1	Y 371.029	688898.9	688898.9	93.921 %		04:53:26
1	Ag 328.068†	1448.5	1157.3	5.1689 ug/L	5.1689 ppb	04:53:26
1	As 188.979†	49.1	75.5	30.726 ug/L	30.726 ppb	04:53:46
1	B 249.677†	1691.0	2430.5	52.953 ug/L	52.953 ppb	04:53:26
1	Ba 233.527†	630.8	678.0	5.1130 ug/L	5.1130 ppb	04:53:46
1	Be 313.107†	8659.8	13510.2	4.8090 ug/L	4.8090 ppb	04:53:26
1	Cd 226.502†	249.0	466.7	4.9410 ug/L	4.9410 ppb	04:53:46
1	Co 228.616†	157.0	245.0	4.8179 ug/L	4.8179 ppb	04:53:46
1	Cr 267.716†	510.9	468.8	4.9989 ug/L	4.9989 ppb	04:53:46
1	Cu 324.752†	9558.0	3592.6	10.400 ug/L	10.400 ppb	04:53:26
1	Mn 257.610†	9687.9	9796.0	10.367 ug/L	10.367 ppb	04:53:26
1	Mo 202.031†	158.1	147.1	9.9447 ug/L	9.9447 ppb	04:53:46
1	Ni 231.604†	273.3	195.7	4.6558 ug/L	4.6558 ppb	04:53:46
1	P 214.914†	462.0	278.5	158.30 ug/L	158.30 ppb	04:53:46
1	Pb 220.353†	7.5	75.3	8.8381 ug/L	8.8381 ppb	04:53:46
1	S 181.975 Axial†	114.0	76.4	101.79 ug/L	101.79 ppb	04:53:46
1	Sb 206.836†	49.6	23.4	8.1019 ug/L	8.1019 ppb	04:53:46
1	Se 196.026†	28.3	54.1	33.417 ug/L	33.417 ppb	04:53:46
1	Si 251.611†	3535.6	3306.9	101.12 ug/L	101.12 ppb	04:53:26
1	Sn 189.927†	63.1	66.2	11.132 ug/L	11.132 ppb	04:53:46
1	Ti 334.940†	1679.2	3131.6	4.8404 ug/L	4.8404 ppb	04:53:26
1	Tl 190.801†	23.6	64.5	18.849 ug/L	18.849 ppb	04:53:46
1	U 409.014†	-326.8	1730.7	49.154 ug/L	49.154 ppb	04:53:26
1	V 292.402†	-651.4	699.9	4.7871 ug/L	4.7871 ppb	04:53:26
1	Zn 213.857†	1705.8	812.6	7.2898 ug/L	7.2898 ppb	04:53:46
1	SiO2†	3621.5	3382.6	221.18 ug/L	221.18 ppb	04:54:42
2	Sc Radial	4953.8	4953.8	93.3 %		04:52:34
2	Y RADIAL	5277.5	5277.5	93.04 %		04:52:34
2	Al 396.153Radial†	267.8	303.8	220.99 ug/L	220.99 ppb	04:52:34
2	Ca 317.933Radial†	142.6	131.3	199.52 ug/L	199.52 ppb	04:52:54
2	Fe 238.204 Radial†	25.6	17.3	142.69 ug/L	142.69 ppb	04:52:54
2	K 766.490 Radial†	3720.2	1339.3	242.39 ug/L	242.39 ppb	04:52:34
2	Mg 279.077 IEC†	11.6	9.2	288.87 ug/L	288.87 ppb	04:52:54
2	Na 589.592 Radial†	-478.8	1103.8	321.66 ug/L	321.66 ppb	04:52:34
2	Sr 421.552†	756.6	795.3	5.0228 ug/L	5.0228 ppb	04:52:34
2	Sc 361.383	828633.2	828633.2	94.997 %		04:53:51
2	Y 371.029	692941.7	692941.7	94.472 %		04:53:51
2	Ag 328.068†	1321.5	1011.8	4.5201 ug/L	4.5201 ppb	04:53:51
2	As 188.979†	42.1	67.7	27.549 ug/L	27.549 ppb	04:54:12
2	B 249.677†	1696.5	2422.7	52.781 ug/L	52.781 ppb	04:53:51
2	Ba 233.527†	621.1	662.6	4.9984 ug/L	4.9984 ppb	04:54:12
2	Be 313.107†	8730.3	13514.5	4.8109 ug/L	4.8109 ppb	04:53:51
2	Cd 226.502†	272.4	489.3	5.1814 ug/L	5.1814 ppb	04:54:12
2	Co 228.616†	155.0	241.6	4.7526 ug/L	4.7526 ppb	04:54:12
2	Cr 267.716†	508.7	462.2	4.9275 ug/L	4.9275 ppb	04:54:12
2	Cu 324.752†	9755.6	3723.4	10.777 ug/L	10.777 ppb	04:53:51
2	Mn 257.610†	9794.0	9829.5	10.403 ug/L	10.403 ppb	04:53:51
2	Mo 202.031†	169.1	157.4	10.642 ug/L	10.642 ppb	04:54:12
2	Ni 231.604†	293.1	214.3	5.0991 ug/L	5.0991 ppb	04:54:12

2	P 214.914†	476.8	290.4	165.04 ug/L	165.04 ppb	04:54:12
2	Pb 220.353†	16.7	84.9	9.9586 ug/L	9.9586 ppb	04:54:12
2	S 181.975 Axial†	119.3	81.0	107.97 ug/L	107.97 ppb	04:54:12
2	Sb 206.836†	61.2	35.2	12.014 ug/L	12.014 ppb	04:54:12
2	Se 196.026†	17.5	42.6	26.432 ug/L	26.432 ppb	04:54:12
2	Si 251.611†	3578.6	3323.6	101.63 ug/L	101.63 ppb	04:53:51
2	Sn 189.927†	57.0	59.2	9.9632 ug/L	9.9632 ppb	04:54:12
2	Ti 334.940†	1792.7	3237.5	5.0035 ug/L	5.0035 ppb	04:53:51
2	Tl 190.801†	38.1	79.6	23.242 ug/L	23.242 ppb	04:54:12
2	U 409.014†	-135.9	1934.3	54.939 ug/L	54.939 ppb	04:53:51
2	V 292.402†	-603.2	755.9	5.1733 ug/L	5.1733 ppb	04:53:51
2	Zn 213.857†	1699.1	791.8	7.0980 ug/L	7.0980 ppb	04:54:12
2	SiO2†	3557.3	3285.7	214.82 ug/L	214.82 ppb	04:54:47
3	Sc Radial	4914.3	4914.3	92.5 %		04:52:59
3	Y RADIAL	5272.3	5272.3	92.95 %		04:52:59
3	Al 396.153Radial†	253.1	290.3	211.14 ug/L	211.14 ppb	04:52:59
3	Ca 317.933Radial†	140.9	130.7	198.69 ug/L	198.69 ppb	04:53:19
3	Fe 238.204 Radial†	21.7	13.3	109.93 ug/L	109.93 ppb	04:53:19
3	K 766.490 Radial†	3550.6	1188.2	215.03 ug/L	215.03 ppb	04:52:59
3	Mg 279.077 IEC†	7.5	4.9	154.22 ug/L	154.22 ppb	04:53:19
3	Na 589.592 Radial†	-534.5	1039.4	302.89 ug/L	302.89 ppb	04:52:59
3	Sr 421.552†	779.9	827.1	5.2232 ug/L	5.2232 ppb	04:52:59
3	Sc 361.383	820720.0	820720.0	94.089 %		04:54:17
3	Y 371.029	687412.3	687412.3	93.718 %		04:54:17
3	Ag 328.068†	1436.2	1147.1	5.1124 ug/L	5.1124 ppb	04:54:17
3	As 188.979†	43.9	70.1	28.494 ug/L	28.494 ppb	04:54:37
3	B 249.677†	1675.6	2417.7	52.676 ug/L	52.676 ppb	04:54:17
3	Ba 233.527†	633.6	682.2	5.1447 ug/L	5.1447 ppb	04:54:37
3	Be 313.107†	8726.7	13599.4	4.8409 ug/L	4.8409 ppb	04:54:17
3	Cd 226.502†	240.6	458.3	4.8560 ug/L	4.8560 ppb	04:54:37
3	Co 228.616†	170.0	259.1	5.0966 ug/L	5.0966 ppb	04:54:37
3	Cr 267.716†	507.7	466.4	4.9713 ug/L	4.9713 ppb	04:54:37
3	Cu 324.752†	9624.2	3682.8	10.658 ug/L	10.658 ppb	04:54:17
3	Mn 257.610†	9710.6	9840.3	10.417 ug/L	10.417 ppb	04:54:17
3	Mo 202.031†	163.4	153.1	10.349 ug/L	10.349 ppb	04:54:37
3	Ni 231.604†	267.0	189.5	4.5079 ug/L	4.5079 ppb	04:54:37
3	P 214.914†	453.5	270.5	153.65 ug/L	153.65 ppb	04:54:37
3	Pb 220.353†	18.1	86.6	10.157 ug/L	10.157 ppb	04:54:37
3	S 181.975 Axial†	115.2	77.9	103.78 ug/L	103.78 ppb	04:54:37
3	Sb 206.836†	69.4	44.6	15.113 ug/L	15.113 ppb	04:54:37
3	Se 196.026†	12.6	37.5	23.206 ug/L	23.206 ppb	04:54:37
3	Si 251.611†	3587.7	3369.6	103.04 ug/L	103.04 ppb	04:54:17
3	Sn 189.927†	61.4	64.5	10.845 ug/L	10.845 ppb	04:54:37
3	Ti 334.940†	1721.3	3179.8	4.9251 ug/L	4.9251 ppb	04:54:17
3	Tl 190.801†	29.9	71.3	20.818 ug/L	20.818 ppb	04:54:37
3	U 409.014†	-156.2	1911.3	54.289 ug/L	54.289 ppb	04:54:17
3	V 292.402†	-584.7	769.5	5.2592 ug/L	5.2592 ppb	04:54:17
3	Zn 213.857†	1692.1	801.7	7.1940 ug/L	7.1940 ppb	04:54:37
3	SiO2†	3595.9	3362.8	219.88 ug/L	219.88 ppb	04:54:52

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823893.1	94.453 %	0.4795			0.51%
Sc Radial	4997.1	94.1 %	2.09			2.22%
Y 371.029	689750.9	94.037 %	0.3901			0.41%
Y RADIAL	5329.6	93.96 %	1.671			1.78%
Ag 328.068†	1105.4	4.9338 ug/L	0.35936	4.9338 ppb	0.35936	7.28%
QC value within limits for Ag 328.068 Recovery = 98.68%						
Al 396.153Radial†	290.1	211.05 ug/L	9.984	211.05 ppb	9.984	4.73%
QC value within limits for Al 396.153Radial Recovery = 105.52%						
As 188.979†	71.1	28.923 ug/L	1.6317	28.923 ppb	1.6317	5.64%
QC value within limits for As 188.979 Recovery = 96.41%						
B 249.677†	2423.6	52.804 ug/L	0.1397	52.804 ppb	0.1397	0.26%
QC value within limits for B 249.677 Recovery = 105.61%						
Ba 233.527†	674.3	5.0854 ug/L	0.07693	5.0854 ppb	0.07693	1.51%
QC value within limits for Ba 233.527 Recovery = 101.71%						
Be 313.107†	13541.4	4.8203 ug/L	0.01786	4.8203 ppb	0.01786	0.37%
QC value within limits for Be 313.107 Recovery = 96.41%						
Ca 317.933Radial†	127.7	194.15 ug/L	8.599	194.15 ppb	8.599	4.43%

QC value within limits for Ca 317.933 Radial Recovery = 97.07%							
Cd 226.502†	471.5	4.9928 ug/L	0.16876	4.9928 ppb	0.16876	3.38%	
QC value within limits for Cd 226.502 Recovery = 99.86%							
Co 228.616†	248.6	4.8890 ug/L	0.18266	4.8890 ppb	0.18266	3.74%	
QC value within limits for Co 228.616 Recovery = 97.78%							
Cr 267.716†	465.8	4.9659 ug/L	0.03597	4.9659 ppb	0.03597	0.72%	
QC value within limits for Cr 267.716 Recovery = 99.32%							
Cu 324.752†	3666.3	10.612 ug/L	0.1925	10.612 ppb	0.1925	1.81%	
QC value within limits for Cu 324.752 Recovery = 106.12%							
Fe 238.204 Radial†	15.7	129.94 ug/L	17.548	129.94 ppb	17.548	13.50%	
QC value within limits for Fe 238.204 Radial Recovery = 129.94%							
K 766.490 Radial†	1249.8	226.18 ug/L	14.368	226.18 ppb	14.368	6.35%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 150.78%							
Mg 279.077 IEC†	7.7	240.56 ug/L	74.947	240.56 ppb	74.947	31.15%	
QC value within limits for Mg 279.077 IEC Recovery = 80.19%							
Mn 257.610†	9821.9	10.396 ug/L	0.0254	10.396 ppb	0.0254	0.24%	
QC value within limits for Mn 257.610 Recovery = 103.96%							
Mo 202.031†	152.5	10.312 ug/L	0.3501	10.312 ppb	0.3501	3.39%	
QC value within limits for Mo 202.031 Recovery = 103.12%							
Na 589.592 Radial†	1092.7	318.43 ug/L	14.201	318.43 ppb	14.201	4.46%	
QC value within limits for Na 589.592 Radial Recovery = 106.14%							
Ni 231.604†	199.9	4.7543 ug/L	0.30764	4.7543 ppb	0.30764	6.47%	
QC value within limits for Ni 231.604 Recovery = 95.09%							
P 214.914†	279.8	158.99 ug/L	5.726	158.99 ppb	5.726	3.60%	
QC value within limits for P 214.914 Recovery = 106.00%							
Pb 220.353†	82.3	9.6513 ug/L	0.71120	9.6513 ppb	0.71120	7.37%	
QC value within limits for Pb 220.353 Recovery = 96.51%							
S 181.975 Axial†	78.4	104.51 ug/L	3.156	104.51 ppb	3.156	3.02%	
QC value within limits for S 181.975 Axial Recovery = 104.51%							
Sb 206.836†	34.4	11.743 ug/L	3.5132	11.743 ppb	3.5132	29.92%	
QC value within limits for Sb 206.836 Recovery = 117.43%							
Se 196.026†	44.7	27.685 ug/L	5.2195	27.685 ppb	5.2195	18.85%	
QC value within limits for Se 196.026 Recovery = 92.28%							
Si 251.611†	3333.4	101.93 ug/L	0.993	101.93 ppb	0.993	0.97%	
QC value within limits for Si 251.611 Recovery = 101.93%							
Sn 189.927†	63.3	10.647 ug/L	0.6092	10.647 ppb	0.6092	5.72%	
QC value within limits for Sn 189.927 Recovery = 106.47%							
Sr 421.552†	800.4	5.0545 ug/L	0.15525	5.0545 ppb	0.15525	3.07%	
QC value within limits for Sr 421.552 Recovery = 101.09%							
Ti 334.940†	3182.9	4.9230 ug/L	0.08156	4.9230 ppb	0.08156	1.66%	
QC value within limits for Ti 334.940 Recovery = 98.46%							
Tl 190.801†	71.8	20.969 ug/L	2.2005	20.969 ppb	2.2005	10.49%	
QC value within limits for Tl 190.801 Recovery = 104.85%							
U 409.014†	1858.8	52.794 ug/L	3.1691	52.794 ppb	3.1691	6.00%	
QC value within limits for U 409.014 Recovery = 105.59%							
V 292.402†	741.8	5.0732 ug/L	0.25150	5.0732 ppb	0.25150	4.96%	
QC value within limits for V 292.402 Recovery = 101.46%							
Zn 213.857†	802.1	7.1939 ug/L	0.09592	7.1939 ppb	0.09592	1.33%	
QC value within limits for Zn 213.857 Recovery = 71.94%							
SiO2†	3343.7	218.62 ug/L	3.360	218.62 ppb	3.360	1.54%	
QC value within limits for SiO2 Recovery = 102.64%							
QC Failed. Continue with analysis.							

Sequence No.: 121

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 04:57:02

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	4962.3	4962.3	93.4 %		04:58:55
1	Y RADIAL	5242.0	5242.0	92.41 %		04:58:55
1	Al 396.153Radial†	-2.5	14.1	10.255 ug/L	10.255 ppb	04:58:55
1	Ca 317.933Radial†	19.1	-1.2	-1.7617 ug/L	-1.7617 ppb	04:59:15
1	Fe 238.204 Radial†	11.1	1.7	13.797 ug/L	13.797 ppb	04:59:15
1	K 766.490 Radial†	2770.7	316.4	57.326 ug/L	57.326 ppb	04:58:55
1	Mg 279.077 IEC†	2.0	-1.1	-34.326 ug/L	-34.326 ppb	04:59:15
1	Na 589.592 Radial†	-1571.6	-64.9	-18.904 ug/L	-18.904 ppb	04:58:55
1	Sr 421.552†	16.6	2.1	0.0130 ug/L	0.0130 ppb	04:58:55
1	Sc 361.383	813469.8	813469.8	93.258 %		05:00:12
1	Y 371.029	681897.3	681897.3	92.966 %		05:00:12
1	Ag 328.068†	306.3	-50.8	-0.2257 ug/L	-0.2257 ppb	05:00:12
1	As 188.979†	-18.2	3.9	1.5747 ug/L	1.5747 ppb	05:00:32
1	B 249.677†	-453.2	150.8	3.2842 ug/L	3.2842 ppb	05:00:32
1	Ba 233.527†	-17.2	-9.6	-0.0732 ug/L	-0.0732 ppb	05:00:32
1	Be 313.107†	-4179.7	-157.5	-0.0565 ug/L	-0.0565 ppb	05:00:12
1	Cd 226.502†	-190.5	-1.6	-0.0185 ug/L	-0.0185 ppb	05:00:32
1	Co 228.616†	-66.2	7.4	0.1460 ug/L	0.1460 ppb	05:00:32
1	Cr 267.716†	95.8	29.5	0.3135 ug/L	0.3135 ppb	05:00:32
1	Cu 324.752†	6365.1	279.2	0.8090 ug/L	0.8090 ppb	05:00:12
1	Mn 257.610†	447.1	-1.0	0.0017 ug/L	0.0017 ppb	05:00:32
1	Mo 202.031†	17.3	-2.0	-0.1360 ug/L	-0.1360 ppb	05:00:32
1	Ni 231.604†	69.9	-19.3	-0.4598 ug/L	-0.4598 ppb	05:00:32
1	P 214.914†	223.1	27.7	15.786 ug/L	15.786 ppb	05:00:32
1	Pb 220.353†	-60.1	2.8	0.3324 ug/L	0.3324 ppb	05:00:32
1	S 181.975 Axial†	51.6	10.8	14.463 ug/L	14.463 ppb	05:00:32
1	Sb 206.836†	32.4	5.5	1.8320 ug/L	1.8320 ppb	05:00:32
1	Se 196.026†	-30.5	-8.5	-5.1429 ug/L	-5.1429 ppb	05:00:32
1	Si 251.611†	489.9	81.8	2.5075 ug/L	2.5075 ppb	05:00:32
1	Sn 189.927†	7.4	7.2	1.2104 ug/L	1.2104 ppb	05:00:32
1	Ti 334.940†	-1416.5	-168.6	-0.2604 ug/L	-0.2604 ppb	05:00:12
1	Tl 190.801†	-35.9	0.9	0.2735 ug/L	0.2735 ppb	05:00:32
1	U 409.014†	-1850.2	93.5	2.6542 ug/L	2.6542 ppb	05:00:12
1	V 292.402†	-1365.4	-73.2	-0.4778 ug/L	-0.4778 ppb	05:00:12
1	Zn 213.857†	681.9	-265.6	-2.4004 ug/L	-2.4004 ppb	05:00:32
1	SiO2†	495.1	72.0	4.7145 ug/L	4.7145 ppb	05:01:28
2	Sc Radial	4771.0	4771.0	89.8 %		04:59:20
2	Y RADIAL	5060.1	5060.1	89.21 %		04:59:20
2	Al 396.153Radial†	-0.4	16.3	11.868 ug/L	11.868 ppb	04:59:20
2	Ca 317.933Radial†	22.9	3.9	5.9288 ug/L	5.9288 ppb	04:59:40
2	Fe 238.204 Radial†	9.7	0.6	5.1648 ug/L	5.1648 ppb	04:59:40
2	K 766.490 Radial†	2924.0	605.9	109.77 ug/L	109.77 ppb	04:59:20
2	Mg 279.077 IEC†	-1.2	-4.5	-141.51 ug/L	-141.51 ppb	04:59:40
2	Na 589.592 Radial†	-1531.4	-87.6	-25.521 ug/L	-25.521 ppb	04:59:20
2	Sr 421.552†	13.6	-0.5	-0.0035 ug/L	-0.0035 ppb	04:59:20
2	Sc 361.383	821172.7	821172.7	94.141 %		05:00:37
2	Y 371.029	687451.1	687451.1	93.723 %		05:00:37
2	Ag 328.068†	345.4	-12.3	-0.0539 ug/L	-0.0539 ppb	05:00:37
2	As 188.979†	-24.2	-2.3	-0.9303 ug/L	-0.9303 ppb	05:00:57
2	B 249.677†	-415.4	195.6	4.2626 ug/L	4.2626 ppb	05:00:57
2	Ba 233.527†	10.4	19.9	0.1480 ug/L	0.1480 ppb	05:00:57
2	Be 313.107†	-4320.6	-265.0	-0.0945 ug/L	-0.0945 ppb	05:00:37
2	Cd 226.502†	-186.0	5.1	0.0528 ug/L	0.0528 ppb	05:00:57
2	Co 228.616†	-74.1	-0.3	-0.0067 ug/L	-0.0067 ppb	05:00:57
2	Cr 267.716†	107.4	40.9	0.4371 ug/L	0.4371 ppb	05:00:57
2	Cu 324.752†	6426.7	280.6	0.8155 ug/L	0.8155 ppb	05:00:37
2	Mn 257.610†	449.4	-3.0	0.0031 ug/L	0.0031 ppb	05:00:57
2	Mo 202.031†	17.0	-2.5	-0.1694 ug/L	-0.1694 ppb	05:00:57
2	Ni 231.604†	84.1	-4.8	-0.1154 ug/L	-0.1154 ppb	05:00:57

2	P 214.914†	213.2	15.0	8.4564 ug/L	8.4564 ppb	05:00:57
2	Pb 220.353†	-75.5	-12.9	-1.4980 ug/L	-1.4980 ppb	05:00:57
2	S 181.975 Axial†	45.3	3.6	4.7494 ug/L	4.7494 ppb	05:00:57
2	Sb 206.836†	38.1	11.2	3.6936 ug/L	3.6936 ppb	05:00:57
2	Se 196.026†	-34.4	-12.4	-7.5290 ug/L	-7.5290 ppb	05:00:57
2	Si 251.611†	492.4	79.5	2.4375 ug/L	2.4375 ppb	05:00:57
2	Sn 189.927†	-2.5	-3.4	-0.5700 ug/L	-0.5700 ppb	05:00:57
2	Ti 334.940†	-1360.0	-94.2	-0.1330 ug/L	-0.1330 ppb	05:00:37
2	Tl 190.801†	-35.0	2.3	0.6740 ug/L	0.6740 ppb	05:00:57
2	U 409.014†	-2036.9	-86.2	-2.4519 ug/L	-2.4519 ppb	05:00:37
2	V 292.402†	-1403.8	-100.2	-0.6657 ug/L	-0.6657 ppb	05:00:37
2	Zn 213.857†	679.0	-275.5	-2.4915 ug/L	-2.4915 ppb	05:00:57
2	SiO2†	502.8	75.1	4.9240 ug/L	4.9240 ppb	05:01:33
3	Sc Radial	4981.7	4981.7	93.8 %		04:59:45
3	Y RADIAL	5348.6	5348.6	94.29 %		04:59:45
3	Al 396.153Radial†	20.1	38.2	27.808 ug/L	27.808 ppb	04:59:45
3	Ca 317.933Radial†	26.1	6.2	9.4440 ug/L	9.4440 ppb	05:00:05
3	Fe 238.204 Radial†	12.0	2.6	21.658 ug/L	21.658 ppb	05:00:05
3	K 766.490 Radial†	2550.7	70.4	12.747 ug/L	12.747 ppb	04:59:45
3	Mg 279.077 IEC†	3.9	0.9	27.847 ug/L	27.847 ppb	05:00:05
3	Na 589.592 Radial†	-1523.6	-7.2	-2.0855 ug/L	-2.0855 ppb	04:59:45
3	Sr 421.552†	-7.7	-23.9	-0.1510 ug/L	-0.1510 ppb	04:59:45
3	Sc 361.383	815420.3	815420.3	93.482 %		05:01:03
3	Y 371.029	683721.4	683721.4	93.215 %		05:01:03
3	Ag 328.068†	394.2	42.4	0.1978 ug/L	0.1978 ppb	05:01:03
3	As 188.979†	-19.8	2.2	0.9100 ug/L	0.9100 ppb	05:01:23
3	B 249.677†	-431.4	175.3	3.8192 ug/L	3.8192 ppb	05:01:23
3	Ba 233.527†	7.7	17.1	0.1278 ug/L	0.1278 ppb	05:01:23
3	Be 313.107†	-4264.3	-237.2	-0.0843 ug/L	-0.0843 ppb	05:01:03
3	Cd 226.502†	-185.1	4.6	0.0456 ug/L	0.0456 ppb	05:01:23
3	Co 228.616†	-79.0	-6.0	-0.1182 ug/L	-0.1182 ppb	05:01:23
3	Cr 267.716†	84.7	17.4	0.1875 ug/L	0.1875 ppb	05:01:23
3	Cu 324.752†	6333.6	229.2	0.6692 ug/L	0.6692 ppb	05:01:03
3	Mn 257.610†	453.6	4.8	0.0061 ug/L	0.0061 ppb	05:01:23
3	Mo 202.031†	21.8	2.8	0.1878 ug/L	0.1878 ppb	05:01:23
3	Ni 231.604†	93.5	5.8	0.1378 ug/L	0.1378 ppb	05:01:23
3	P 214.914†	229.4	33.9	19.410 ug/L	19.410 ppb	05:01:23
3	Pb 220.353†	-68.7	-6.1	-0.7128 ug/L	-0.7128 ppb	05:01:23
3	S 181.975 Axial†	46.9	5.6	7.4863 ug/L	7.4863 ppb	05:01:23
3	Sb 206.836†	40.4	14.0	4.6676 ug/L	4.6676 ppb	05:01:23
3	Se 196.026†	-29.8	-7.7	-4.6328 ug/L	-4.6328 ppb	05:01:23
3	Si 251.611†	472.3	61.8	1.8885 ug/L	1.8885 ppb	05:01:23
3	Sn 189.927†	11.6	11.6	1.9550 ug/L	1.9550 ppb	05:01:23
3	Ti 334.940†	-1274.2	-12.7	-0.0182 ug/L	-0.0182 ppb	05:01:03
3	Tl 190.801†	-32.4	4.8	1.3969 ug/L	1.3969 ppb	05:01:23
3	U 409.014†	-2135.4	-206.9	-5.8823 ug/L	-5.8823 ppb	05:01:03
3	V 292.402†	-1385.8	-91.5	-0.6091 ug/L	-0.6091 ppb	05:01:03
3	Zn 213.857†	684.9	-264.0	-2.3910 ug/L	-2.3910 ppb	05:01:23
3	SiO2†	525.3	103.1	6.7415 ug/L	6.7415 ppb	05:01:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816687.6	93.627 %		0.4591			0.49%
Sc Radial	4905.0	92.4 %		2.19			2.37%
Y 371.029	684356.6	93.302 %		0.3859			0.41%
Y RADIAL	5216.9	91.97 %		2.572			2.80%
Ag 328.068†	-6.9	-0.0273 ug/L		0.21301	-0.0273 ppb	0.21301	780.58%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	22.8	16.644 ug/L		9.7021	16.644 ppb	9.7021	58.29%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.3	0.5181 ug/L		1.29765	0.5181 ppb	1.29765	250.45%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	173.9	3.7887 ug/L		0.48989	3.7887 ppb	0.48989	12.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.1	0.0675 ug/L		0.12230	0.0675 ppb	0.12230	181.07%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-219.9	-0.0784 ug/L		0.01964	-0.0784 ppb	0.01964	25.05%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	3.0	4.5370 ug/L		5.73099	4.5370 ppb	5.73099	126.32%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	2.7	0.0266 ug/L	0.03925	0.0266 ppb	0.03925	147.53%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.4	0.0070 ug/L	0.13263	0.0070 ppb	0.13263	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	29.2	0.3127 ug/L	0.12480	0.3127 ppb	0.12480	39.91%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	263.0	0.7646 ug/L	0.08267	0.7646 ppb	0.08267	10.81%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.6	13.540 ug/L	8.2495	13.540 ppb	8.2495	60.93%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	330.9	59.948 ug/L	48.5648	59.948 ppb	48.5648	81.01%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.6	-49.331 ug/L	85.6724	-49.331 ppb	85.6724	173.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	0.3	0.0037 ug/L	0.00221	0.0037 ppb	0.00221	60.60%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.6	-0.0392 ug/L	0.19730	-0.0392 ppb	0.19730	502.78%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-53.2	-15.503 ug/L	12.0819	-15.503 ppb	12.0819	77.93%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-6.1	-0.1458 ug/L	0.29996	-0.1458 ppb	0.29996	205.77%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	25.5	14.551 ug/L	5.5804	14.551 ppb	5.5804	38.35%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.4	-0.6262 ug/L	0.91827	-0.6262 ppb	0.91827	146.65%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	6.7	8.8996 ug/L	5.00860	8.8996 ppb	5.00860	56.28%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	10.2	3.3978 ug/L	1.44077	3.3978 ppb	1.44077	42.40%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-9.6	-5.7682 ug/L	1.54607	-5.7682 ppb	1.54607	26.80%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	74.4	2.2779 ug/L	0.33897	2.2779 ppb	0.33897	14.88%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.2	0.8652 ug/L	1.29743	0.8652 ppb	1.29743	149.96%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.5	-0.0471 ug/L	0.09031	-0.0471 ppb	0.09031	191.56%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-91.8	-0.1372 ug/L	0.12118	-0.1372 ppb	0.12118	88.32%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.7	0.7814 ug/L	0.56936	0.7814 ppb	0.56936	72.86%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-66.6	-1.8933 ug/L	4.29558	-1.8933 ppb	4.29558	226.88%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-88.3	-0.5842 ug/L	0.09637	-0.5842 ppb	0.09637	16.50%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-268.4	-2.4276 ug/L	0.05555	-2.4276 ppb	0.05555	2.29%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	83.4	5.4600 ug/L	1.11473	5.4600 ppb	1.11473	20.42%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 130
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/14/2010 05:59:03
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4813.1	4813.1	90.6 %		06:00:55
1	Y RADIAL	5090.4	5090.4	89.74 %		06:00:55
1	Al 396.153Radial†	6531.7	7223.3	5242.0 ug/L	5242.0 ppb	06:00:55
1	Ca 317.933Radial†	3183.0	3490.3	5304.3 ug/L	5304.3 ppb	06:01:15
1	Fe 238.204 Radial†	607.5	660.1	5457.3 ug/L	5457.3 ppb	06:01:15
1	K 766.490 Radial†	29927.5	30370.9	5494.6 ug/L	5494.6 ppb	06:00:55
1	Mg 279.077 IEC†	161.6	175.0	5471.2 ug/L	5471.2 ppb	06:01:15
1	Na 589.592 Radial†	32732.9	37731.8	10996 ug/L	10996 ppb	06:00:55
1	Sr 421.552†	77554.4	85551.4	540.40 ug/L	540.40 ppb	06:00:55
1	Sc 361.383	843606.6	843606.6	96.713 %		06:02:12
1	Y 371.029	695050.8	695050.8	94.760 %		06:02:12
1	Ag 328.068†	111226.7	114627.4	513.27 ug/L	513.27 ppb	06:02:17
1	As 188.979†	1175.9	1239.3	507.56 ug/L	507.56 ppb	06:02:37
1	B 249.677†	21446.6	22812.2	495.01 ug/L	495.01 ppb	06:02:17
1	Ba 233.527†	65031.3	67250.2	507.01 ug/L	507.01 ppb	06:02:17
1	Be 313.107†	1337802.6	1387591.8	493.91 ug/L	493.91 ppb	06:02:12
1	Cd 226.502†	45838.3	47598.7	503.93 ug/L	503.93 ppb	06:02:17
1	Co 228.616†	24915.3	25840.4	507.05 ug/L	507.05 ppb	06:02:17
1	Cr 267.716†	45612.4	47089.3	503.81 ug/L	503.81 ppb	06:02:17
1	Cu 324.752†	173595.8	172949.4	501.64 ug/L	501.64 ppb	06:02:17
1	Mn 257.610†	459294.6	474423.1	502.30 ug/L	502.30 ppb	06:02:12
1	Mo 202.031†	7270.3	7496.8	506.64 ug/L	506.64 ppb	06:02:37
1	Ni 231.604†	20566.9	21171.7	503.66 ug/L	503.66 ppb	06:02:17
1	P 214.914†	4451.7	4391.5	2430.0 ug/L	2430.0 ppb	06:02:37
1	Pb 220.353†	4129.4	4337.0	507.56 ug/L	507.56 ppb	06:02:37
1	S 181.975 Axial†	786.2	768.4	1023.5 ug/L	1023.5 ppb	06:02:37
1	Sb 206.836†	1509.7	1531.8	524.74 ug/L	524.74 ppb	06:02:37
1	Se 196.026†	775.5	826.0	522.23 ug/L	522.23 ppb	06:02:37
1	Si 251.611†	80703.1	83002.4	2535.0 ug/L	2535.0 ppb	06:02:17
1	Sn 189.927†	2914.6	3012.9	506.23 ug/L	506.23 ppb	06:02:37
1	Ti 334.940†	308405.7	320237.2	497.03 ug/L	497.03 ppb	06:02:17
1	Tl 190.801†	1653.7	1749.4	512.88 ug/L	512.88 ppb	06:02:37
1	U 409.014†	15456.8	18059.5	511.43 ug/L	511.43 ppb	06:02:17
1	V 292.402†	72594.0	76452.0	506.38 ug/L	506.38 ppb	06:02:17
1	Zn 213.857†	55094.5	55970.1	501.60 ug/L	501.60 ppb	06:02:17
1	SiO2†	79984.9	82244.2	5370.5 ug/L	5370.5 ppb	06:03:45
2	Sc Radial	4906.5	4906.5	92.4 %		06:01:20
2	Y RADIAL	5186.3	5186.3	91.43 %		06:01:20
2	Al 396.153Radial†	6651.9	7216.1	5235.9 ug/L	5235.9 ppb	06:01:20
2	Ca 317.933Radial†	3186.4	3427.1	5208.3 ug/L	5208.3 ppb	06:01:40
2	Fe 238.204 Radial†	610.8	650.9	5381.5 ug/L	5381.5 ppb	06:01:40
2	K 766.490 Radial†	30376.3	30227.9	5468.7 ug/L	5468.7 ppb	06:01:20
2	Mg 279.077 IEC†	158.9	168.7	5274.5 ug/L	5274.5 ppb	06:01:40
2	Na 589.592 Radial†	33320.9	37680.5	10981 ug/L	10981 ppb	06:01:20
2	Sr 421.552†	79110.4	85606.2	540.75 ug/L	540.75 ppb	06:01:20
2	Sc 361.383	812433.5	812433.5	93.139 %		06:02:43
2	Y 371.029	669394.7	669394.7	91.262 %		06:02:43
2	Ag 328.068†	110150.0	117884.3	527.80 ug/L	527.80 ppb	06:02:48
2	As 188.979†	1162.7	1271.8	520.81 ug/L	520.81 ppb	06:03:08
2	B 249.677†	21188.0	23385.4	507.48 ug/L	507.48 ppb	06:02:48
2	Ba 233.527†	64441.1	69196.6	521.68 ug/L	521.68 ppb	06:02:48
2	Be 313.107†	1335918.7	1438645.1	512.08 ug/L	512.08 ppb	06:02:43
2	Cd 226.502†	45358.4	48902.1	517.75 ug/L	517.75 ppb	06:02:48
2	Co 228.616†	24646.2	26540.1	520.79 ug/L	520.79 ppb	06:02:48
2	Cr 267.716†	45154.6	48407.5	517.91 ug/L	517.91 ppb	06:02:48
2	Cu 324.752†	171908.6	178025.1	516.36 ug/L	516.36 ppb	06:02:48
2	Mn 257.610†	458462.3	491751.6	520.64 ug/L	520.64 ppb	06:02:43
2	Mo 202.031†	7260.0	7774.2	525.36 ug/L	525.36 ppb	06:03:08
2	Ni 231.604†	20409.6	21818.7	519.06 ug/L	519.06 ppb	06:02:48

2	P 214.914†	4420.2	4534.3	2509.5 ug/L	2509.5 ppb	06:03:08
2	Pb 220.353†	4096.4	4465.5	522.59 ug/L	522.59 ppb	06:03:08
2	S 181.975 Axial†	782.6	795.7	1059.8 ug/L	1059.8 ppb	06:03:08
2	Sb 206.836†	1495.6	1576.6	540.25 ug/L	540.25 ppb	06:03:08
2	Se 196.026†	776.2	857.5	541.23 ug/L	541.23 ppb	06:03:08
2	Si 251.611†	79831.6	85268.5	2604.1 ug/L	2604.1 ppb	06:02:48
2	Sn 189.927†	2918.6	3132.8	526.32 ug/L	526.32 ppb	06:03:08
2	Ti 334.940†	305490.3	329342.7	511.17 ug/L	511.17 ppb	06:02:48
2	Tl 190.801†	1639.3	1799.6	527.61 ug/L	527.61 ppb	06:03:08
2	U 409.014†	15025.6	18209.8	515.68 ug/L	515.68 ppb	06:02:48
2	V 292.402†	72209.9	78919.8	522.77 ug/L	522.77 ppb	06:02:48
2	Zn 213.857†	54512.6	57531.2	515.60 ug/L	515.60 ppb	06:02:48
2	SiO2†	81780.3	87345.2	5704.0 ug/L	5704.0 ppb	06:03:50
3	Sc Radial	4612.0	4612.0	86.9 %		06:01:45
3	Y RADIAL	4904.4	4904.4	86.46 %		06:01:45
3	Al 396.153Radial†	6393.6	7378.4	5354.3 ug/L	5354.3 ppb	06:01:45
3	Ca 317.933Radial†	3185.5	3646.3	5541.4 ug/L	5541.4 ppb	06:02:05
3	Fe 238.204 Radial†	600.3	681.0	5630.4 ug/L	5630.4 ppb	06:02:05
3	K 766.490 Radial†	29576.8	31406.3	5681.9 ug/L	5681.9 ppb	06:01:45
3	Mg 279.077 IEC†	163.3	184.9	5778.3 ug/L	5778.3 ppb	06:02:05
3	Na 589.592 Radial†	32021.6	38486.9	11216 ug/L	11216 ppb	06:01:45
3	Sr 421.552†	75939.5	87421.7	552.22 ug/L	552.22 ppb	06:01:45
3	Sc 361.383	817059.9	817059.9	93.670 %		06:03:14
3	Y 371.029	673932.8	673932.8	91.880 %		06:03:14
3	Ag 328.068†	110990.9	118112.4	528.90 ug/L	528.90 ppb	06:03:19
3	As 188.979†	1160.4	1262.2	517.04 ug/L	517.04 ppb	06:03:39
3	B 249.677†	21550.1	23643.3	513.05 ug/L	513.05 ppb	06:03:19
3	Ba 233.527†	65185.2	69599.2	524.72 ug/L	524.72 ppb	06:03:19
3	Be 313.107†	1343161.0	1438255.4	511.94 ug/L	511.94 ppb	06:03:14
3	Cd 226.502†	45947.7	49255.4	521.47 ug/L	521.47 ppb	06:03:19
3	Co 228.616†	25000.4	26768.3	525.25 ug/L	525.25 ppb	06:03:19
3	Cr 267.716†	45679.7	48693.5	520.97 ug/L	520.97 ppb	06:03:19
3	Cu 324.752†	173354.9	178524.1	517.82 ug/L	517.82 ppb	06:03:19
3	Mn 257.610†	460385.2	491017.3	519.87 ug/L	519.87 ppb	06:03:14
3	Mo 202.031†	7259.9	7730.0	522.40 ug/L	522.40 ppb	06:03:39
3	Ni 231.604†	20646.9	21948.0	522.13 ug/L	522.13 ppb	06:03:19
3	P 214.914†	4425.4	4513.0	2496.7 ug/L	2496.7 ppb	06:03:39
3	Pb 220.353†	4127.7	4474.0	523.58 ug/L	523.58 ppb	06:03:39
3	S 181.975 Axial†	770.6	778.2	1036.4 ug/L	1036.4 ppb	06:03:39
3	Sb 206.836†	1499.9	1572.0	538.65 ug/L	538.65 ppb	06:03:39
3	Se 196.026†	776.7	853.3	539.46 ug/L	539.46 ppb	06:03:39
3	Si 251.611†	80712.2	85723.2	2618.1 ug/L	2618.1 ppb	06:03:19
3	Sn 189.927†	2917.8	3114.3	523.27 ug/L	523.27 ppb	06:03:39
3	Ti 334.940†	308546.6	330748.3	513.35 ug/L	513.35 ppb	06:03:19
3	Tl 190.801†	1647.3	1798.1	527.18 ug/L	527.18 ppb	06:03:39
3	U 409.014†	15241.8	18349.2	519.60 ug/L	519.60 ppb	06:03:19
3	V 292.402†	73027.6	79353.6	525.54 ug/L	525.54 ppb	06:03:19
3	Zn 213.857†	55059.8	57784.0	517.84 ug/L	517.84 ppb	06:03:19
3	SiO2†	81330.0	86367.3	5640.0 ug/L	5640.0 ppb	06:03:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	824366.7	94.508 %	1.9285			2.04%
Sc Radial	4777.2	90.0 %	2.83			3.15%
Y 371.029	679459.4	92.634 %	1.8667			2.02%
Y RADIAL	5060.4	89.21 %	2.526			2.83%
Ag 328.068†	116874.7	523.33 ug/L	8.722	523.33 ppb	8.722	1.67%
QC value within limits for Ag 328.068 Recovery = 104.67%						
Al 396.153Radial†	7272.6	5277.4 ug/L	66.68	5277.4 ppb	66.68	1.26%
QC value within limits for Al 396.153Radial Recovery = 105.55%						
As 188.979†	1257.8	515.14 ug/L	6.830	515.14 ppb	6.830	1.33%
QC value within limits for As 188.979 Recovery = 103.03%						
B 249.677†	23280.3	505.18 ug/L	9.236	505.18 ppb	9.236	1.83%
QC value within limits for B 249.677 Recovery = 101.04%						
Ba 233.527†	68682.0	517.81 ug/L	9.471	517.81 ppb	9.471	1.83%
QC value within limits for Ba 233.527 Recovery = 103.56%						
Be 313.107†	1421497.4	505.98 ug/L	10.448	505.98 ppb	10.448	2.06%
QC value within limits for Be 313.107 Recovery = 101.20%						
Ca 317.933Radial†	3521.2	5351.3 ug/L	171.50	5351.3 ppb	171.50	3.20%

QC value within limits for Ca 317.933 Radial Recovery = 107.03%

Cd 226.502†	48585.4	514.38 ug/L	9.242	514.38 ppb	9.242	1.80%
QC value within limits for Cd 226.502 Recovery = 102.88%						
Co 228.616†	26382.9	517.70 ug/L	9.489	517.70 ppb	9.489	1.83%
QC value within limits for Co 228.616 Recovery = 103.54%						
Cr 267.716†	48063.4	514.23 ug/L	9.157	514.23 ppb	9.157	1.78%
QC value within limits for Cr 267.716 Recovery = 102.85%						
Cu 324.752†	176499.5	511.94 ug/L	8.947	511.94 ppb	8.947	1.75%
QC value within limits for Cu 324.752 Recovery = 102.39%						
Fe 238.204 Radial†	664.0	5489.7 ug/L	127.58	5489.7 ppb	127.58	2.32%
QC value within limits for Fe 238.204 Radial Recovery = 109.79%						
K 766.490 Radial†	30668.4	5548.4 ug/L	116.37	5548.4 ppb	116.37	2.10%
QC value greater than the upper limit for K 766.490 Radial Recovery = 110.97%						
Mg 279.077 IEC†	176.2	5508.0 ug/L	253.90	5508.0 ppb	253.90	4.61%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 110.16%						
Mn 257.610†	485730.7	514.27 ug/L	10.370	514.27 ppb	10.370	2.02%
QC value within limits for Mn 257.610 Recovery = 102.85%						
Mo 202.031†	7667.0	518.14 ug/L	10.065	518.14 ppb	10.065	1.94%
QC value within limits for Mo 202.031 Recovery = 103.63%						
Na 589.592 Radial†	37966.4	11064 ug/L	131.6	11064 ppb	131.6	1.19%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.64%						
Ni 231.604†	21646.1	514.95 ug/L	9.896	514.95 ppb	9.896	1.92%
QC value within limits for Ni 231.604 Recovery = 102.99%						
P 214.914†	4479.6	2478.8 ug/L	42.71	2478.8 ppb	42.71	1.72%
QC value within limits for P 214.914 Recovery = 99.15%						
Pb 220.353†	4425.5	517.91 ug/L	8.976	517.91 ppb	8.976	1.73%
QC value within limits for Pb 220.353 Recovery = 103.58%						
S 181.975 Axial†	780.8	1039.9 ug/L	18.42	1039.9 ppb	18.42	1.77%
QC value within limits for S 181.975 Axial Recovery = 103.99%						
Sb 206.836†	1560.1	534.54 ug/L	8.530	534.54 ppb	8.530	1.60%
QC value within limits for Sb 206.836 Recovery = 106.91%						
Se 196.026†	845.6	534.30 ug/L	10.496	534.30 ppb	10.496	1.96%
QC value within limits for Se 196.026 Recovery = 106.86%						
Si 251.611†	84664.7	2585.7 ug/L	44.50	2585.7 ppb	44.50	1.72%
QC value within limits for Si 251.611 Recovery = 103.43%						
Sn 189.927†	3086.7	518.61 ug/L	10.824	518.61 ppb	10.824	2.09%
QC value within limits for Sn 189.927 Recovery = 103.72%						
Sr 421.552†	86193.1	544.46 ug/L	6.723	544.46 ppb	6.723	1.23%
QC value within limits for Sr 421.552 Recovery = 108.89%						
Ti 334.940†	326776.1	507.18 ug/L	8.857	507.18 ppb	8.857	1.75%
QC value within limits for Ti 334.940 Recovery = 101.44%						
Tl 190.801†	1782.4	522.55 ug/L	8.385	522.55 ppb	8.385	1.60%
QC value within limits for Tl 190.801 Recovery = 104.51%						
U 409.014†	18206.2	515.57 ug/L	4.088	515.57 ppb	4.088	0.79%
QC value within limits for U 409.014 Recovery = 103.11%						
V 292.402†	78241.8	518.23 ug/L	10.354	518.23 ppb	10.354	2.00%
QC value within limits for V 292.402 Recovery = 103.65%						
Zn 213.857†	57095.1	511.68 ug/L	8.802	511.68 ppb	8.802	1.72%
QC value within limits for Zn 213.857 Recovery = 102.34%						
SiO2†	85318.9	5571.5 ug/L	176.97	5571.5 ppb	176.97	3.18%
QC value within limits for SiO2 Recovery = 104.19%						

QC Failed. Continue with analysis.

Sequence No.: 131
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 18
 Date Collected: 1/14/2010 06:06:05
 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	4879.5	4879.5	91.9 %		06:07:57
1	Y RADIAL	5228.9	5228.9	92.18 %		06:07:57
1	Al 396.153Radial†	244.5	282.8	205.66 ug/L	205.66 ppb	06:07:57
1	Ca 317.933Radial†	138.4	129.0	196.06 ug/L	196.06 ppb	06:08:17
1	Fe 238.204 Radial†	21.3	13.0	107.41 ug/L	107.41 ppb	06:08:17
1	K 766.490 Radial†	3827.3	1516.7	274.53 ug/L	274.53 ppb	06:07:57
1	Mg 279.077 IEC†	13.0	10.9	342.03 ug/L	342.03 ppb	06:08:17
1	Na 589.592 Radial†	-583.1	982.4	286.30 ug/L	286.30 ppb	06:07:57
1	Sr 421.552†	780.6	833.8	5.2657 ug/L	5.2657 ppb	06:07:57
1	Sc 361.383	811735.9	811735.9	93.059 %		06:09:14
1	Y 371.029	680969.7	680969.7	92.840 %		06:09:14
1	Ag 328.068†	1432.3	1159.9	5.1682 ug/L	5.1682 ppb	06:09:14
1	As 188.979†	44.8	71.6	29.103 ug/L	29.103 ppb	06:09:34
1	B 249.677†	1729.0	2494.7	54.357 ug/L	54.357 ppb	06:09:14
1	Ba 233.527†	637.2	693.5	5.2281 ug/L	5.2281 ppb	06:09:34
1	Be 313.107†	8953.0	13945.2	4.9637 ug/L	4.9637 ppb	06:09:14
1	Cd 226.502†	264.1	486.5	5.1537 ug/L	5.1537 ppb	06:09:34
1	Co 228.616†	161.0	251.4	4.9452 ug/L	4.9452 ppb	06:09:34
1	Cr 267.716†	505.7	470.2	5.0123 ug/L	5.0123 ppb	06:09:34
1	Cu 324.752†	9631.9	3804.3	11.012 ug/L	11.012 ppb	06:09:14
1	Mn 257.610†	9988.4	10252.9	10.845 ug/L	10.845 ppb	06:09:14
1	Mo 202.031†	166.0	157.9	10.669 ug/L	10.669 ppb	06:09:34
1	Ni 231.604†	292.4	220.0	5.2341 ug/L	5.2341 ppb	06:09:34
1	P 214.914†	467.5	290.9	165.31 ug/L	165.31 ppb	06:09:34
1	Pb 220.353†	19.2	88.0	10.317 ug/L	10.317 ppb	06:09:34
1	S 181.975 Axial†	123.2	87.8	117.08 ug/L	117.08 ppb	06:09:34
1	Sb 206.836†	73.7	49.9	16.910 ug/L	16.910 ppb	06:09:34
1	Se 196.026†	23.9	49.8	30.683 ug/L	30.683 ppb	06:09:34
1	Si 251.611†	3622.0	3448.6	105.45 ug/L	105.45 ppb	06:09:14
1	Sn 189.927†	67.6	71.9	12.085 ug/L	12.085 ppb	06:09:34
1	Ti 334.940†	1708.4	3186.2	4.9210 ug/L	4.9210 ppb	06:09:14
1	Tl 190.801†	38.7	81.1	23.684 ug/L	23.684 ppb	06:09:34
1	U 409.014†	-273.8	1783.1	50.646 ug/L	50.646 ppb	06:09:14
1	V 292.402†	-694.7	644.4	4.4428 ug/L	4.4428 ppb	06:09:14
1	Zn 213.857†	1753.5	887.6	7.9659 ug/L	7.9659 ppb	06:09:34
1	SiO2†	3657.9	3471.8	227.00 ug/L	227.00 ppb	06:10:30
2	Sc Radial	4854.3	4854.3	91.4 %		06:08:22
2	Y RADIAL	5196.3	5196.3	91.61 %		06:08:22
2	Al 396.153Radial†	260.4	301.6	219.34 ug/L	219.34 ppb	06:08:22
2	Ca 317.933Radial†	141.0	132.6	201.57 ug/L	201.57 ppb	06:08:42
2	Fe 238.204 Radial†	21.4	13.2	109.23 ug/L	109.23 ppb	06:08:42
2	K 766.490 Radial†	3578.2	1265.7	229.07 ug/L	229.07 ppb	06:08:22
2	Mg 279.077 IEC†	10.7	8.5	266.11 ug/L	266.11 ppb	06:08:42
2	Na 589.592 Radial†	-572.6	990.6	288.68 ug/L	288.68 ppb	06:08:22
2	Sr 421.552†	748.3	802.8	5.0702 ug/L	5.0702 ppb	06:08:22
2	Sc 361.383	775764.8	775764.8	88.936 %		06:09:39
2	Y 371.029	652407.6	652407.6	88.946 %		06:09:39
2	Ag 328.068†	1447.6	1248.4	5.5583 ug/L	5.5583 ppb	06:09:39
2	As 188.979†	37.0	65.1	26.470 ug/L	26.470 ppb	06:09:59
2	B 249.677†	1789.0	2648.4	57.707 ug/L	57.707 ppb	06:09:39
2	Ba 233.527†	650.9	740.7	5.5830 ug/L	5.5830 ppb	06:09:59
2	Be 313.107†	9156.7	14620.4	5.2048 ug/L	5.2048 ppb	06:09:39
2	Cd 226.502†	265.8	501.4	5.3132 ug/L	5.3132 ppb	06:09:59
2	Co 228.616†	160.4	258.8	5.0917 ug/L	5.0917 ppb	06:09:59
2	Cr 267.716†	503.2	492.6	5.2501 ug/L	5.2501 ppb	06:09:59
2	Cu 324.752†	9710.4	4372.5	12.657 ug/L	12.657 ppb	06:09:39
2	Mn 257.610†	9951.0	10708.6	11.331 ug/L	11.331 ppb	06:09:39
2	Mo 202.031†	169.5	170.0	11.488 ug/L	11.488 ppb	06:09:59
2	Ni 231.604†	281.1	221.8	5.2773 ug/L	5.2773 ppb	06:09:59

2	P 214.914†	468.2	314.9	178.85 ug/L	178.85 ppb	06:09:59
2	Pb 220.353†	30.0	101.0	11.846 ug/L	11.846 ppb	06:09:59
2	S 181.975 Axial†	119.3	89.6	119.43 ug/L	119.43 ppb	06:09:59
2	Sb 206.836†	69.0	48.3	16.374 ug/L	16.374 ppb	06:09:59
2	Se 196.026†	21.7	48.5	29.927 ug/L	29.927 ppb	06:09:59
2	Si 251.611†	3672.1	3685.5	112.69 ug/L	112.69 ppb	06:09:39
2	Sn 189.927†	56.9	63.2	10.630 ug/L	10.630 ppb	06:09:59
2	Ti 334.940†	1971.7	3567.4	5.5172 ug/L	5.5172 ppb	06:09:39
2	Tl 190.801†	32.8	76.4	22.316 ug/L	22.316 ppb	06:09:59
2	U 409.014†	-85.0	1981.8	56.291 ug/L	56.291 ppb	06:09:39
2	V 292.402†	-652.4	657.4	4.5475 ug/L	4.5475 ppb	06:09:39
2	Zn 213.857†	1745.5	965.9	8.6711 ug/L	8.6711 ppb	06:09:59
2	SiO2†	3674.1	3672.3	240.10 ug/L	240.10 ppb	06:10:35
3	Sc Radial	4917.4	4917.4	92.6 %		06:08:47
3	Y RADIAL	5232.0	5232.0	92.24 %		06:08:47
3	Al 396.153Radial†	285.5	325.0	236.46 ug/L	236.46 ppb	06:08:47
3	Ca 317.933Radial†	145.5	135.5	205.99 ug/L	205.99 ppb	06:09:07
3	Fe 238.204 Radial†	22.1	13.7	112.90 ug/L	112.90 ppb	06:09:07
3	K 766.490 Radial†	3691.2	1337.5	242.08 ug/L	242.08 ppb	06:08:47
3	Mg 279.077 IEC†	10.9	8.6	268.98 ug/L	268.98 ppb	06:09:07
3	Na 589.592 Radial†	-500.1	1076.9	313.83 ug/L	313.83 ppb	06:08:47
3	Sr 421.552†	763.4	808.7	5.1074 ug/L	5.1074 ppb	06:08:47
3	Sc 361.383	832051.5	832051.5	95.389 %		06:10:05
3	Y 371.029	698099.5	698099.5	95.175 %		06:10:05
3	Ag 328.068†	1308.4	992.4	4.4278 ug/L	4.4278 ppb	06:10:05
3	As 188.979†	50.9	76.8	31.225 ug/L	31.225 ppb	06:10:25
3	B 249.677†	1723.1	2443.1	53.231 ug/L	53.231 ppb	06:10:05
3	Ba 233.527†	643.6	683.6	5.1545 ug/L	5.1545 ppb	06:10:25
3	Be 313.107†	8807.8	13558.1	4.8262 ug/L	4.8262 ppb	06:10:05
3	Cd 226.502†	272.1	487.8	5.1670 ug/L	5.1670 ppb	06:10:25
3	Co 228.616†	168.6	255.2	5.0195 ug/L	5.0195 ppb	06:10:25
3	Cr 267.716†	512.2	463.7	4.9450 ug/L	4.9450 ppb	06:10:25
3	Cu 324.752†	9533.7	3448.6	9.9813 ug/L	9.9813 ppb	06:10:05
3	Mn 257.610†	9799.6	9793.0	10.362 ug/L	10.362 ppb	06:10:05
3	Mo 202.031†	165.5	152.9	10.336 ug/L	10.336 ppb	06:10:25
3	Ni 231.604†	281.9	201.3	4.7895 ug/L	4.7895 ppb	06:10:25
3	P 214.914†	454.8	265.3	150.79 ug/L	150.79 ppb	06:10:25
3	Pb 220.353†	15.1	83.2	9.7688 ug/L	9.7688 ppb	06:10:25
3	S 181.975 Axial†	117.0	78.2	104.17 ug/L	104.17 ppb	06:10:25
3	Sb 206.836†	75.5	49.9	16.877 ug/L	16.877 ppb	06:10:25
3	Se 196.026†	11.8	36.5	22.617 ug/L	22.617 ppb	06:10:25
3	Si 251.611†	3609.0	3340.0	102.13 ug/L	102.13 ppb	06:10:05
3	Sn 189.927†	65.9	68.4	11.499 ug/L	11.499 ppb	06:10:25
3	Ti 334.940†	1741.9	3176.5	4.9139 ug/L	4.9139 ppb	06:10:05
3	Tl 190.801†	30.0	70.9	20.703 ug/L	20.703 ppb	06:10:25
3	U 409.014†	-330.3	1731.2	49.168 ug/L	49.168 ppb	06:10:05
3	V 292.402†	-639.6	720.4	4.9299 ug/L	4.9299 ppb	06:10:05
3	Zn 213.857†	1757.2	845.4	7.5882 ug/L	7.5882 ppb	06:10:25
3	SiO2†	3574.6	3288.6	215.01 ug/L	215.01 ppb	06:10:40

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806517.4	92.461 %	3.2678			3.53%
Sc Radial	4883.8	92.0 %	0.60			0.65%
Y 371.029	677158.9	92.320 %	3.1470			3.41%
Y RADIAL	5219.1	92.01 %	0.349			0.38%
Ag 328.068†	1133.6	5.0515 ug/L	0.57421	5.0515 ppb	0.57421	11.37%
QC value within limits for Ag 328.068 Recovery = 101.03%						
Al 396.153Radial†	303.1	220.49 ug/L	15.432	220.49 ppb	15.432	7.00%
QC value within limits for Al 396.153Radial Recovery = 110.24%						
As 188.979†	71.1	28.933 ug/L	2.3823	28.933 ppb	2.3823	8.23%
QC value within limits for As 188.979 Recovery = 96.44%						
B 249.677†	2528.7	55.098 ug/L	2.3279	55.098 ppb	2.3279	4.23%
QC value within limits for B 249.677 Recovery = 110.20%						
Ba 233.527†	705.9	5.3219 ug/L	0.22912	5.3219 ppb	0.22912	4.31%
QC value within limits for Ba 233.527 Recovery = 106.44%						
Be 313.107†	14041.2	4.9982 ug/L	0.19166	4.9982 ppb	0.19166	3.83%
QC value within limits for Be 313.107 Recovery = 99.96%						
Ca 317.933Radial†	132.4	201.21 ug/L	4.975	201.21 ppb	4.975	2.47%

QC value within limits for Ca 317.933 Radial Recovery = 100.60%							
Cd 226.502†	491.9	5.2113 ug/L	0.08851	5.2113 ppb	0.08851	1.70%	
QC value within limits for Cd 226.502 Recovery = 104.23%							
Co 228.616†	255.1	5.0188 ug/L	0.07324	5.0188 ppb	0.07324	1.46%	
QC value within limits for Co 228.616 Recovery = 100.38%							
Cr 267.716†	475.5	5.0691 ug/L	0.16032	5.0691 ppb	0.16032	3.16%	
QC value within limits for Cr 267.716 Recovery = 101.38%							
Cu 324.752†	3875.1	11.217 ug/L	1.3496	11.217 ppb	1.3496	12.03%	
QC value within limits for Cu 324.752 Recovery = 112.17%							
Fe 238.204 Radial†	13.3	109.85 ug/L	2.797	109.85 ppb	2.797	2.55%	
QC value within limits for Fe 238.204 Radial Recovery = 109.85%							
K 766.490 Radial†	1373.3	248.56 ug/L	23.415	248.56 ppb	23.415	9.42%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 165.71%							
Mg 279.077 IEC†	9.4	292.37 ug/L	43.027	292.37 ppb	43.027	14.72%	
QC value within limits for Mg 279.077 IEC Recovery = 97.46%							
Mn 257.610†	10251.5	10.846 ug/L	0.4843	10.846 ppb	0.4843	4.46%	
QC value within limits for Mn 257.610 Recovery = 108.46%							
Mo 202.031†	160.3	10.831 ug/L	0.5928	10.831 ppb	0.5928	5.47%	
QC value within limits for Mo 202.031 Recovery = 108.31%							
Na 589.592 Radial†	1016.6	296.27 ug/L	15.256	296.27 ppb	15.256	5.15%	
QC value within limits for Na 589.592 Radial Recovery = 98.76%							
Ni 231.604†	214.4	5.1003 ug/L	0.26999	5.1003 ppb	0.26999	5.29%	
QC value within limits for Ni 231.604 Recovery = 102.01%							
P 214.914†	290.4	164.98 ug/L	14.030	164.98 ppb	14.030	8.50%	
QC value within limits for P 214.914 Recovery = 109.99%							
Pb 220.353†	90.7	10.644 ug/L	1.0764	10.644 ppb	1.0764	10.11%	
QC value within limits for Pb 220.353 Recovery = 106.44%							
S 181.975 Axial†	85.2	113.56 ug/L	8.213	113.56 ppb	8.213	7.23%	
QC value within limits for S 181.975 Axial Recovery = 113.56%							
Sb 206.836†	49.4	16.720 ug/L	0.3003	16.720 ppb	0.3003	1.80%	
QC value greater than the upper limit for Sb 206.836 Recovery = 167.20%							
Se 196.026†	44.9	27.742 ug/L	4.4550	27.742 ppb	4.4550	16.06%	
QC value within limits for Se 196.026 Recovery = 92.47%							
Si 251.611†	3491.4	106.76 ug/L	5.401	106.76 ppb	5.401	5.06%	
QC value within limits for Si 251.611 Recovery = 106.76%							
Sn 189.927†	67.8	11.405 ug/L	0.7319	11.405 ppb	0.7319	6.42%	
QC value within limits for Sn 189.927 Recovery = 114.05%							
Sr 421.552†	815.1	5.1477 ug/L	0.10380	5.1477 ppb	0.10380	2.02%	
QC value within limits for Sr 421.552 Recovery = 102.95%							
Ti 334.940†	3310.0	5.1173 ug/L	0.34628	5.1173 ppb	0.34628	6.77%	
QC value within limits for Ti 334.940 Recovery = 102.35%							
Tl 190.801†	76.1	22.234 ug/L	1.4921	22.234 ppb	1.4921	6.71%	
QC value within limits for Tl 190.801 Recovery = 111.17%							
U 409.014†	1832.0	52.035 ug/L	3.7592	52.035 ppb	3.7592	7.22%	
QC value within limits for U 409.014 Recovery = 104.07%							
V 292.402†	674.0	4.6401 ug/L	0.25644	4.6401 ppb	0.25644	5.53%	
QC value within limits for V 292.402 Recovery = 92.80%							
Zn 213.857†	899.6	8.0751 ug/L	0.54962	8.0751 ppb	0.54962	6.81%	
QC value within limits for Zn 213.857 Recovery = 80.75%							
SiO2†	3477.6	227.37 ug/L	12.550	227.37 ppb	12.550	5.52%	
QC value within limits for SiO2 Recovery = 106.75%							
QC Failed. Continue with analysis.							

Sequence No.: 132
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/14/2010 06:12:50
 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	4781.2	4781.2	90.0 %		06:14:42
1	Y RADIAL	5105.0	5105.0	90.00 %		06:14:42
1	Al 396.153Radial†	-9.5	6.2	4.5386 ug/L	4.5386 ppb	06:14:42
1	Ca 317.933Radial†	22.0	2.9	4.4500 ug/L	4.4500 ppb	06:15:02
1	Fe 238.204 Radial†	11.9	3.0	24.902 ug/L	24.902 ppb	06:15:02
1	K 766.490 Radial†	2795.7	456.5	82.714 ug/L	82.714 ppb	06:14:42
1	Mg 279.077 IEC†	-0.4	-3.6	-113.40 ug/L	-113.40 ppb	06:15:02
1	Na 589.592 Radial†	-1615.1	-176.9	-51.538 ug/L	-51.538 ppb	06:14:42
1	Sr 421.552†	26.1	13.2	0.0835 ug/L	0.0835 ppb	06:14:42
1	Sc 361.383	811255.4	811255.4	93.004 %		06:15:59
1	Y 371.029	679949.3	679949.3	92.701 %		06:15:59
1	Ag 328.068†	348.1	-5.0	-0.0115 ug/L	-0.0115 ppb	06:15:59
1	As 188.979†	-19.5	2.5	1.0029 ug/L	1.0029 ppb	06:16:19
1	B 249.677†	-397.4	209.4	4.5628 ug/L	4.5628 ppb	06:16:19
1	Ba 233.527†	10.0	19.5	0.1463 ug/L	0.1463 ppb	06:16:19
1	Be 313.107†	-4216.0	-208.7	-0.0744 ug/L	-0.0744 ppb	06:15:59
1	Cd 226.502†	-197.7	-10.0	-0.1099 ug/L	-0.1099 ppb	06:16:19
1	Co 228.616†	-82.7	-10.4	-0.2042 ug/L	-0.2042 ppb	06:16:19
1	Cr 267.716†	83.5	16.6	0.1795 ug/L	0.1795 ppb	06:16:19
1	Cu 324.752†	6357.9	290.1	0.8463 ug/L	0.8463 ppb	06:15:59
1	Mn 257.610†	442.2	-4.9	0.0019 ug/L	0.0019 ppb	06:16:19
1	Mo 202.031†	24.2	5.4	0.3678 ug/L	0.3678 ppb	06:16:19
1	Ni 231.604†	83.4	-4.6	-0.1087 ug/L	-0.1087 ppb	06:16:19
1	P 214.914†	217.7	22.5	12.795 ug/L	12.795 ppb	06:16:19
1	Pb 220.353†	-66.0	-3.6	-0.4248 ug/L	-0.4248 ppb	06:16:19
1	S 181.975 Axial†	50.4	9.7	12.936 ug/L	12.936 ppb	06:16:19
1	Sb 206.836†	33.5	6.8	2.2766 ug/L	2.2766 ppb	06:16:19
1	Se 196.026†	-24.5	-2.2	-1.2431 ug/L	-1.2431 ppb	06:16:19
1	Si 251.611†	483.8	76.8	2.3457 ug/L	2.3457 ppb	06:16:19
1	Sn 189.927†	9.4	9.3	1.5660 ug/L	1.5660 ppb	06:16:19
1	Ti 334.940†	-1322.2	-71.3	-0.0979 ug/L	-0.0979 ppb	06:15:59
1	Tl 190.801†	-35.1	1.8	0.5224 ug/L	0.5224 ppb	06:16:19
1	U 409.014†	-2150.0	-234.3	-6.6601 ug/L	-6.6601 ppb	06:15:59
1	V 292.402†	-1383.6	-96.7	-0.6454 ug/L	-0.6454 ppb	06:15:59
1	Zn 213.857†	699.2	-244.9	-2.2168 ug/L	-2.2168 ppb	06:16:19
1	SiO2†	521.5	101.8	6.6561 ug/L	6.6561 ppb	06:17:15
2	Sc Radial	4986.8	4986.8	93.9 %		06:15:07
2	Y RADIAL	5329.2	5329.2	93.95 %		06:15:07
2	Al 396.153Radial†	37.8	57.0	41.527 ug/L	41.527 ppb	06:15:07
2	Ca 317.933Radial†	22.3	2.2	3.2850 ug/L	3.2850 ppb	06:15:27
2	Fe 238.204 Radial†	11.7	2.3	18.862 ug/L	18.862 ppb	06:15:27
2	K 766.490 Radial†	2849.3	385.6	69.846 ug/L	69.846 ppb	06:15:07
2	Mg 279.077 IEC†	5.1	2.2	68.359 ug/L	68.359 ppb	06:15:27
2	Na 589.592 Radial†	-1560.8	-45.1	-13.157 ug/L	-13.157 ppb	06:15:07
2	Sr 421.552†	17.7	3.2	0.0200 ug/L	0.0200 ppb	06:15:07
2	Sc 361.383	814993.0	814993.0	93.433 %		06:16:24
2	Y 371.029	684163.4	684163.4	93.275 %		06:16:24
2	Ag 328.068†	314.2	-43.0	-0.1849 ug/L	-0.1849 ppb	06:16:24
2	As 188.979†	-21.0	1.0	0.3905 ug/L	0.3905 ppb	06:16:44
2	B 249.677†	-356.2	255.6	5.5701 ug/L	5.5701 ppb	06:16:44
2	Ba 233.527†	-8.2	0.0	0.0001 ug/L	0.0001 ppb	06:16:44
2	Be 313.107†	-4232.1	-205.1	-0.0733 ug/L	-0.0733 ppb	06:16:24
2	Cd 226.502†	-186.4	3.1	0.0303 ug/L	0.0303 ppb	06:16:44
2	Co 228.616†	-93.3	-21.5	-0.4206 ug/L	-0.4206 ppb	06:16:44
2	Cr 267.716†	89.7	22.8	0.2442 ug/L	0.2442 ppb	06:16:44
2	Cu 324.752†	6355.2	255.8	0.7442 ug/L	0.7442 ppb	06:16:24
2	Mn 257.610†	447.8	-1.2	-0.0022 ug/L	-0.0022 ppb	06:16:44
2	Mo 202.031†	24.4	5.5	0.3738 ug/L	0.3738 ppb	06:16:44
2	Ni 231.604†	83.5	-4.9	-0.1152 ug/L	-0.1152 ppb	06:16:44

2	P 214.914†	212.3	15.7	8.8803 ug/L	8.8803 ppb	06:16:44
2	Pb 220.353†	-56.1	7.3	0.8538 ug/L	0.8538 ppb	06:16:44
2	S 181.975 Axial†	47.1	5.9	7.8472 ug/L	7.8472 ppb	06:16:44
2	Sb 206.836†	38.2	11.7	3.8828 ug/L	3.8828 ppb	06:16:44
2	Se 196.026†	-28.6	-6.4	-3.8580 ug/L	-3.8580 ppb	06:16:44
2	Si 251.611†	487.5	78.3	2.3938 ug/L	2.3938 ppb	06:16:44
2	Sn 189.927†	7.8	7.6	1.2776 ug/L	1.2776 ppb	06:16:44
2	Ti 334.940†	-1370.9	-116.9	-0.1857 ug/L	-0.1857 ppb	06:16:24
2	Tl 190.801†	-23.5	14.4	4.1814 ug/L	4.1814 ppb	06:16:44
2	U 409.014†	-2011.2	-75.1	-2.1368 ug/L	-2.1368 ppb	06:16:24
2	V 292.402†	-1354.1	-58.3	-0.3814 ug/L	-0.3814 ppb	06:16:24
2	Zn 213.857†	720.9	-225.2	-2.0380 ug/L	-2.0380 ppb	06:16:44
2	SiO2†	486.0	61.2	3.9988 ug/L	3.9988 ppb	06:17:20
3	Sc Radial	4753.3	4753.3	89.5 %		06:15:32
3	Y RADIAL	5082.5	5082.5	89.60 %		06:15:32
3	Al 396.153Radial†	9.7	27.6	20.124 ug/L	20.124 ppb	06:15:32
3	Ca 317.933Radial†	25.0	6.4	9.6657 ug/L	9.6657 ppb	06:15:52
3	Fe 238.204 Radial†	9.2	0.1	0.4743 ug/L	0.4743 ppb	06:15:52
3	K 766.490 Radial†	2892.3	582.7	105.56 ug/L	105.56 ppb	06:15:32
3	Mg 279.077 IEC†	3.4	0.6	19.127 ug/L	19.127 ppb	06:15:52
3	Na 589.592 Radial†	-1537.6	-100.8	-29.388 ug/L	-29.388 ppb	06:15:32
3	Sr 421.552†	-3.6	-19.7	-0.1248 ug/L	-0.1248 ppb	06:15:32
3	Sc 361.383	818100.9	818100.9	93.789 %		06:16:50
3	Y 371.029	687012.8	687012.8	93.664 %		06:16:50
3	Ag 328.068†	315.2	-43.2	-0.1922 ug/L	-0.1922 ppb	06:16:50
3	As 188.979†	-15.9	6.4	2.6126 ug/L	2.6126 ppb	06:17:10
3	B 249.677†	-347.5	266.3	5.8053 ug/L	5.8053 ppb	06:17:10
3	Ba 233.527†	-4.0	4.6	0.0326 ug/L	0.0326 ppb	06:17:10
3	Be 313.107†	-4188.8	-141.7	-0.0509 ug/L	-0.0509 ppb	06:16:50
3	Cd 226.502†	-183.7	6.7	0.0696 ug/L	0.0696 ppb	06:17:10
3	Co 228.616†	-73.1	0.5	0.0101 ug/L	0.0101 ppb	06:17:10
3	Cr 267.716†	103.8	37.5	0.4012 ug/L	0.4012 ppb	06:17:10
3	Cu 324.752†	6326.0	199.0	0.5796 ug/L	0.5796 ppb	06:16:50
3	Mn 257.610†	427.9	-24.1	-0.0263 ug/L	-0.0263 ppb	06:17:10
3	Mo 202.031†	23.8	4.8	0.3228 ug/L	0.3228 ppb	06:17:10
3	Ni 231.604†	61.9	-28.2	-0.6716 ug/L	-0.6716 ppb	06:17:10
3	P 214.914†	222.9	26.1	14.928 ug/L	14.928 ppb	06:17:10
3	Pb 220.353†	-54.4	9.3	1.0903 ug/L	1.0903 ppb	06:17:10
3	S 181.975 Axial†	53.6	12.7	16.881 ug/L	16.881 ppb	06:17:10
3	Sb 206.836†	53.7	28.0	9.2730 ug/L	9.2730 ppb	06:17:10
3	Se 196.026†	-24.6	-2.1	-1.2584 ug/L	-1.2584 ppb	06:17:10
3	Si 251.611†	502.0	91.8	2.8069 ug/L	2.8069 ppb	06:17:10
3	Sn 189.927†	5.5	5.1	0.8535 ug/L	0.8535 ppb	06:17:10
3	Ti 334.940†	-1413.5	-156.7	-0.2417 ug/L	-0.2417 ppb	06:16:50
3	Tl 190.801†	-33.6	3.7	1.0679 ug/L	1.0679 ppb	06:17:10
3	U 409.014†	-2097.7	-159.3	-4.5263 ug/L	-4.5263 ppb	06:16:50
3	V 292.402†	-1432.0	-135.9	-0.8917 ug/L	-0.8917 ppb	06:16:50
3	Zn 213.857†	710.6	-239.1	-2.1579 ug/L	-2.1579 ppb	06:17:10
3	SiO2†	516.9	92.2	6.0276 ug/L	6.0276 ppb	06:17:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814783.1	93.409 %		0.3929			0.42%
Sc Radial	4840.4	91.2 %		2.40			2.63%
Y 371.029	683708.5	93.213 %		0.4845			0.52%
Y RADIAL	5172.2	91.18 %		2.405			2.64%
Ag 328.068†	-30.4	-0.1295 ug/L		0.10231	-0.1295 ppb	0.10231	78.97%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	30.3	22.063 ug/L		18.5701	22.063 ppb	18.5701	84.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.3	1.3353 ug/L		1.14775	1.3353 ppb	1.14775	85.95%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	243.8	5.3127 ug/L		0.66005	5.3127 ppb	0.66005	12.42%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.1	0.0597 ug/L		0.07680	0.0597 ppb	0.07680	128.74%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-185.2	-0.0662 ug/L		0.01324	-0.0662 ppb	0.01324	20.01%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	3.8	5.8002 ug/L		3.39789	5.8002 ppb	3.39789	58.58%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-0.1	-0.0033 ug/L	0.09438	-0.0033 ppb	0.09438	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-10.5	-0.2049 ug/L	0.21532	-0.2049 ppb	0.21532	105.08%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	25.6	0.2750 ug/L	0.11398	0.2750 ppb	0.11398	41.45%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	248.3	0.7234 ug/L	0.13459	0.7234 ppb	0.13459	18.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.8	14.746 ug/L	12.7234	14.746 ppb	12.7234	86.28%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	474.9	86.038 ug/L	18.0854	86.038 ppb	18.0854	21.02%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.3	-8.6379 ug/L	94.00679	-8.6379 ppb	94.00679	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-10.1	-0.0088 ug/L	0.01521	-0.0088 ppb	0.01521	172.06%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.2	0.3548 ug/L	0.02787	0.3548 ppb	0.02787	7.85%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-107.6	-31.361 ug/L	19.2665	-31.361 ppb	19.2665	61.43%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-12.5	-0.2985 ug/L	0.32309	-0.2985 ppb	0.32309	108.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	21.4	12.201 ug/L	3.0673	12.201 ppb	3.0673	25.14%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.3	0.5064 ug/L	0.81510	0.5064 ppb	0.81510	160.96%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	9.4	12.555 ug/L	4.5289	12.555 ppb	4.5289	36.07%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	15.5	5.1441 ug/L	3.66476	5.1441 ppb	3.66476	71.24%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.6	-2.1198 ug/L	1.50533	-2.1198 ppb	1.50533	71.01%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	82.3	2.5154 ug/L	0.25352	2.5154 ppb	0.25352	10.08%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.3	1.2324 ug/L	0.35839	1.2324 ppb	0.35839	29.08%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-1.1	-0.0071 ug/L	0.10678	-0.0071 ppb	0.10678	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-115.0	-0.1751 ug/L	0.07249	-0.1751 ppb	0.07249	41.39%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.6	1.9239 ug/L	1.97400	1.9239 ppb	1.97400	102.60%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-156.2	-4.4411 ug/L	2.26286	-4.4411 ppb	2.26286	50.95%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-97.0	-0.6395 ug/L	0.25518	-0.6395 ppb	0.25518	39.90%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-236.4	-2.1375 ug/L	0.09113	-2.1375 ppb	0.09113	4.26%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	85.1	5.5608 ug/L	1.38882	5.5608 ppb	1.38882	24.98%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 140

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 07:08:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4423.7	4423.7	83.3 %		07:10:20
1	Y RADIAL	4720.3	4720.3	83.22 %		07:10:20
1	Al 396.153Radial†	6128.1	7373.1	5352.0 ug/L	5352.0 ppb	07:10:20
1	Ca 317.933Radial†	2992.0	3570.1	5425.7 ug/L	5425.7 ppb	07:10:40
1	Fe 238.204 Radial†	563.5	666.2	5507.3 ug/L	5507.3 ppb	07:10:40
1	K 766.490 Radial†	28008.8	30973.8	5603.7 ug/L	5603.7 ppb	07:10:20
1	Mg 279.077 IEC†	152.9	180.3	5636.8 ug/L	5636.8 ppb	07:10:40
1	Na 589.592 Radial†	30369.0	38072.7	11095 ug/L	11095 ppb	07:10:20
1	Sr 421.552†	72502.2	87017.5	549.66 ug/L	549.66 ppb	07:10:20
1	Sc 361.383	813575.7	813575.7	93.270 %		07:11:38
1	Y 371.029	671576.6	671576.6	91.559 %		07:11:38
1	Ag 328.068†	102184.1	109177.5	489.01 ug/L	489.01 ppb	07:11:43
1	As 188.979†	1089.2	1191.2	488.01 ug/L	488.01 ppb	07:12:03
1	B 249.677†	20038.9	22121.5	479.98 ug/L	479.98 ppb	07:11:43
1	Ba 233.527†	61109.2	65527.2	494.03 ug/L	494.03 ppb	07:11:43
1	Be 313.107†	1258928.4	1354086.1	481.99 ug/L	481.99 ppb	07:11:38
1	Cd 226.502†	43201.6	46521.2	492.50 ug/L	492.50 ppb	07:11:43
1	Co 228.616†	23395.1	25161.5	493.71 ug/L	493.71 ppb	07:11:43
1	Cr 267.716†	42874.6	45894.9	491.03 ug/L	491.03 ppb	07:11:43
1	Cu 324.752†	162613.7	167800.5	486.73 ug/L	486.73 ppb	07:11:43
1	Mn 257.610†	432093.4	462789.1	489.99 ug/L	489.99 ppb	07:11:38
1	Mo 202.031†	6778.4	7246.9	489.77 ug/L	489.77 ppb	07:12:03
1	Ni 231.604†	19359.7	20662.4	491.55 ug/L	491.55 ppb	07:11:43
1	P 214.914†	4148.2	4236.0	2343.3 ug/L	2343.3 ppb	07:12:03
1	Pb 220.353†	3844.1	4188.8	490.26 ug/L	490.26 ppb	07:12:03
1	S 181.975 Axial†	722.9	730.5	972.96 ug/L	972.96 ppb	07:12:03
1	Sb 206.836†	1397.7	1469.3	503.52 ug/L	503.52 ppb	07:12:03
1	Se 196.026†	737.6	815.0	515.64 ug/L	515.64 ppb	07:12:03
1	Si 251.611†	76399.3	81468.2	2488.2 ug/L	2488.2 ppb	07:11:43
1	Sn 189.927†	2742.0	2939.0	493.86 ug/L	493.86 ppb	07:12:03
1	Ti 334.940†	290889.5	313228.0	486.17 ug/L	486.17 ppb	07:11:43
1	Tl 190.801†	1541.0	1691.7	496.00 ug/L	496.00 ppb	07:12:03
1	U 409.014†	14135.6	17232.9	487.97 ug/L	487.97 ppb	07:11:43
1	V 292.402†	68163.4	74472.4	493.18 ug/L	493.18 ppb	07:11:43
1	Zn 213.857†	52104.6	54867.3	491.72 ug/L	491.72 ppb	07:11:43
1	SiO2†	75841.2	80854.4	5280.0 ug/L	5280.0 ppb	07:13:10
2	Sc Radial	4838.3	4838.3	91.1 %		07:10:45
2	Y RADIAL	5140.1	5140.1	90.62 %		07:10:45
2	Al 396.153Radial†	6180.2	6799.9	4934.3 ug/L	4934.3 ppb	07:10:45
2	Ca 317.933Radial†	2998.0	3268.9	4967.9 ug/L	4967.9 ppb	07:11:05
2	Fe 238.204 Radial†	566.7	611.8	5058.2 ug/L	5058.2 ppb	07:11:05
2	K 766.490 Radial†	28100.4	28193.4	5100.6 ug/L	5100.6 ppb	07:10:45
2	Mg 279.077 IEC†	149.9	161.3	5043.6 ug/L	5043.6 ppb	07:11:05
2	Na 589.592 Radial†	30478.4	35069.0	10220 ug/L	10220 ppb	07:10:45
2	Sr 421.552†	72856.7	79949.3	505.02 ug/L	505.02 ppb	07:10:45
2	Sc 361.383	822530.2	822530.2	94.297 %		07:12:09
2	Y 371.029	679892.1	679892.1	92.693 %		07:12:09
2	Ag 328.068†	101766.4	107541.9	481.57 ug/L	481.57 ppb	07:12:14
2	As 188.979†	1088.8	1178.1	482.51 ug/L	482.51 ppb	07:12:34
2	B 249.677†	19895.0	21735.0	471.65 ug/L	471.65 ppb	07:12:14
2	Ba 233.527†	60780.5	64465.3	486.01 ug/L	486.01 ppb	07:12:14
2	Be 313.107†	1264384.2	1345177.7	478.81 ug/L	478.81 ppb	07:12:09
2	Cd 226.502†	42884.1	45680.3	483.64 ug/L	483.64 ppb	07:12:14
2	Co 228.616†	23254.2	24739.0	485.43 ug/L	485.43 ppb	07:12:14
2	Cr 267.716†	42666.3	45173.6	483.31 ug/L	483.31 ppb	07:12:14
2	Cu 324.752†	161860.9	165104.1	478.89 ug/L	478.89 ppb	07:12:14
2	Mn 257.610†	432313.5	457979.2	484.88 ug/L	484.88 ppb	07:12:09
2	Mo 202.031†	6792.3	7182.5	485.39 ug/L	485.39 ppb	07:12:34
2	Ni 231.604†	19276.6	20348.2	484.07 ug/L	484.07 ppb	07:12:14

2	P 214.914†	4130.3	4168.6	2306.3 ug/L	2306.3 ppb	07:12:34
2	Pb 220.353†	3846.4	4146.4	485.25 ug/L	485.25 ppb	07:12:34
2	S 181.975 Axial†	728.0	727.5	968.95 ug/L	968.95 ppb	07:12:34
2	Sb 206.836†	1396.0	1451.2	497.40 ug/L	497.40 ppb	07:12:34
2	Se 196.026†	733.3	801.8	506.12 ug/L	506.12 ppb	07:12:34
2	Si 251.611†	75907.0	80054.4	2445.0 ug/L	2445.0 ppb	07:12:14
2	Sn 189.927†	2755.7	2921.6	490.86 ug/L	490.86 ppb	07:12:34
2	Ti 334.940†	289055.7	307887.9	477.87 ug/L	477.87 ppb	07:12:14
2	Tl 190.801†	1544.1	1677.0	491.67 ug/L	491.67 ppb	07:12:34
2	U 409.014†	13996.3	16920.2	479.15 ug/L	479.15 ppb	07:12:14
2	V 292.402†	67920.5	73419.2	486.28 ug/L	486.28 ppb	07:12:14
2	Zn 213.857†	51755.5	53888.9	482.97 ug/L	482.97 ppb	07:12:14
2	SiO2†	75886.9	80017.6	5225.4 ug/L	5225.4 ppb	07:13:15
3	Sc Radial	4836.7	4836.7	91.1 %		07:11:10
3	Y RADIAL	5060.7	5060.7	89.22 %		07:11:10
3	Al 396.153Radial†	6146.5	6765.1	4908.7 ug/L	4908.7 ppb	07:11:10
3	Ca 317.933Radial†	2981.0	3251.3	4941.2 ug/L	4941.2 ppb	07:11:31
3	Fe 238.204 Radial†	564.0	609.0	5035.7 ug/L	5035.7 ppb	07:11:31
3	K 766.490 Radial†	28404.1	28536.9	5162.8 ug/L	5162.8 ppb	07:11:10
3	Mg 279.077 IEC†	146.5	157.7	4928.8 ug/L	4928.8 ppb	07:11:31
3	Na 589.592 Radial†	30672.2	35292.7	10285 ug/L	10285 ppb	07:11:10
3	Sr 421.552†	73087.0	80228.2	506.78 ug/L	506.78 ppb	07:11:10
3	Sc 361.383	815422.2	815422.2	93.482 %		07:12:40
3	Y 371.029	674638.6	674638.6	91.977 %		07:12:40
3	Ag 328.068†	103812.6	110671.5	495.51 ug/L	495.51 ppb	07:12:45
3	As 188.979†	1100.7	1200.8	491.82 ug/L	491.82 ppb	07:13:05
3	B 249.677†	20268.7	22318.7	484.35 ug/L	484.35 ppb	07:12:45
3	Ba 233.527†	61481.8	65777.3	495.90 ug/L	495.90 ppb	07:12:45
3	Be 313.107†	1258431.5	1350498.3	480.72 ug/L	480.72 ppb	07:12:40
3	Cd 226.502†	43470.0	46703.5	494.48 ug/L	494.48 ppb	07:12:45
3	Co 228.616†	23519.4	25237.7	495.21 ug/L	495.21 ppb	07:12:45
3	Cr 267.716†	43193.0	46131.4	493.55 ug/L	493.55 ppb	07:12:45
3	Cu 324.752†	163531.6	168387.6	488.40 ug/L	488.40 ppb	07:12:45
3	Mn 257.610†	429643.5	459119.4	486.09 ug/L	486.09 ppb	07:12:40
3	Mo 202.031†	6799.1	7252.6	490.11 ug/L	490.11 ppb	07:13:05
3	Ni 231.604†	19501.6	20767.1	494.04 ug/L	494.04 ppb	07:12:45
3	P 214.914†	4165.8	4244.8	2348.3 ug/L	2348.3 ppb	07:13:05
3	Pb 220.353†	3833.6	4168.3	487.80 ug/L	487.80 ppb	07:13:05
3	S 181.975 Axial†	728.0	734.2	977.93 ug/L	977.93 ppb	07:13:05
3	Sb 206.836†	1382.6	1449.8	497.12 ug/L	497.12 ppb	07:13:05
3	Se 196.026†	731.8	807.0	509.23 ug/L	509.23 ppb	07:13:05
3	Si 251.611†	76807.9	81719.8	2495.9 ug/L	2495.9 ppb	07:12:45
3	Sn 189.927†	2755.2	2946.5	495.03 ug/L	495.03 ppb	07:13:05
3	Ti 334.940†	292328.0	314060.5	487.45 ug/L	487.45 ppb	07:12:45
3	Tl 190.801†	1542.2	1689.2	495.26 ug/L	495.26 ppb	07:13:05
3	U 409.014†	14420.1	17502.9	495.69 ug/L	495.69 ppb	07:12:45
3	V 292.402†	68680.6	74860.1	495.78 ug/L	495.78 ppb	07:12:45
3	Zn 213.857†	52422.2	55080.5	493.67 ug/L	493.67 ppb	07:12:45
3	SiO2†	76880.4	81781.8	5340.7 ug/L	5340.7 ppb	07:13:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817176.0	93.683 %	0.5420			0.58%
Sc Radial	4699.6	88.5 %	4.50			5.08%
Y 371.029	675369.1	92.076 %	0.5734			0.62%
Y RADIAL	4973.7	87.68 %	3.932			4.48%
Ag 328.068†	109130.3	488.70 ug/L	6.976	488.70 ppb	6.976	1.43%
QC value within limits for Ag 328.068 Recovery = 97.74%						
Al 396.153Radial†	6979.4	5065.0 ug/L	248.86	5065.0 ppb	248.86	4.91%
QC value within limits for Al 396.153Radial Recovery = 101.30%						
As 188.979†	1190.0	487.44 ug/L	4.679	487.44 ppb	4.679	0.96%
QC value within limits for As 188.979 Recovery = 97.49%						
B 249.677†	22058.4	478.66 ug/L	6.453	478.66 ppb	6.453	1.35%
QC value within limits for B 249.677 Recovery = 95.73%						
Ba 233.527†	65256.6	491.98 ug/L	5.252	491.98 ppb	5.252	1.07%
QC value within limits for Ba 233.527 Recovery = 98.40%						
Be 313.107†	1349920.7	480.51 ug/L	1.602	480.51 ppb	1.602	0.33%
QC value within limits for Be 313.107 Recovery = 96.10%						
Ca 317.933Radial†	3363.5	5111.6 ug/L	272.32	5111.6 ppb	272.32	5.33%

QC value within limits for Ca 317.933 Radial Recovery = 102.23%							
Cd 226.502†	46301.7	490.21 ug/L	5.776	490.21 ppb	5.776	1.18%	
QC value within limits for Cd 226.502 Recovery = 98.04%							
Co 228.616†	25046.1	491.45 ug/L	5.265	491.45 ppb	5.265	1.07%	
QC value within limits for Co 228.616 Recovery = 98.29%							
Cr 267.716†	45733.3	489.30 ug/L	5.336	489.30 ppb	5.336	1.09%	
QC value within limits for Cr 267.716 Recovery = 97.86%							
Cu 324.752†	167097.4	484.67 ug/L	5.079	484.67 ppb	5.079	1.05%	
QC value within limits for Cu 324.752 Recovery = 96.93%							
Fe 238.204 Radial†	629.0	5200.4 ug/L	266.03	5200.4 ppb	266.03	5.12%	
QC value within limits for Fe 238.204 Radial Recovery = 104.01%							
K 766.490 Radial†	29234.7	5289.0 ug/L	274.30	5289.0 ppb	274.30	5.19%	
QC value within limits for K 766.490 Radial Recovery = 105.78%							
Mg 279.077 IEC†	166.4	5203.1 ug/L	379.98	5203.1 ppb	379.98	7.30%	
QC value within limits for Mg 279.077 IEC Recovery = 104.06%							
Mn 257.610†	459962.5	486.99 ug/L	2.670	486.99 ppb	2.670	0.55%	
QC value within limits for Mn 257.610 Recovery = 97.40%							
Mo 202.031†	7227.3	488.43 ug/L	2.637	488.43 ppb	2.637	0.54%	
QC value within limits for Mo 202.031 Recovery = 97.69%							
Na 589.592 Radial†	36144.8	10533 ug/L	487.6	10533 ppb	487.6	4.63%	
QC value within limits for Na 589.592 Radial Recovery = 105.33%							
Ni 231.604†	20592.6	489.89 ug/L	5.186	489.89 ppb	5.186	1.06%	
QC value within limits for Ni 231.604 Recovery = 97.98%							
P 214.914†	4216.5	2332.6 ug/L	22.96	2332.6 ppb	22.96	0.98%	
QC value within limits for P 214.914 Recovery = 93.31%							
Pb 220.353†	4167.8	487.77 ug/L	2.506	487.77 ppb	2.506	0.51%	
QC value within limits for Pb 220.353 Recovery = 97.55%							
S 181.975 Axial†	730.8	973.28 ug/L	4.501	973.28 ppb	4.501	0.46%	
QC value within limits for S 181.975 Axial Recovery = 97.33%							
Sb 206.836†	1456.7	499.35 ug/L	3.619	499.35 ppb	3.619	0.72%	
QC value within limits for Sb 206.836 Recovery = 99.87%							
Se 196.026†	807.9	510.33 ug/L	4.854	510.33 ppb	4.854	0.95%	
QC value within limits for Se 196.026 Recovery = 102.07%							
Si 251.611†	81080.8	2476.4 ug/L	27.45	2476.4 ppb	27.45	1.11%	
QC value within limits for Si 251.611 Recovery = 99.06%							
Sn 189.927†	2935.7	493.25 ug/L	2.153	493.25 ppb	2.153	0.44%	
QC value within limits for Sn 189.927 Recovery = 98.65%							
Sr 421.552†	82398.3	520.49 ug/L	25.284	520.49 ppb	25.284	4.86%	
QC value within limits for Sr 421.552 Recovery = 104.10%							
Ti 334.940†	311725.4	483.83 ug/L	5.200	483.83 ppb	5.200	1.07%	
QC value within limits for Ti 334.940 Recovery = 96.77%							
Tl 190.801†	1685.9	494.31 ug/L	2.314	494.31 ppb	2.314	0.47%	
QC value within limits for Tl 190.801 Recovery = 98.86%							
U 409.014†	17218.7	487.60 ug/L	8.275	487.60 ppb	8.275	1.70%	
QC value within limits for U 409.014 Recovery = 97.52%							
V 292.402†	74250.6	491.75 ug/L	4.910	491.75 ppb	4.910	1.00%	
QC value within limits for V 292.402 Recovery = 98.35%							
Zn 213.857†	54612.2	489.45 ug/L	5.697	489.45 ppb	5.697	1.16%	
QC value within limits for Zn 213.857 Recovery = 97.89%							
SiO2†	80884.6	5282.0 ug/L	57.71	5282.0 ppb	57.71	1.09%	
QC value within limits for SiO2 Recovery = 98.78%							
All analyte(s) passed QC.							

Sequence No.: 141
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 18
 Date Collected: 1/14/2010 07:15:30
 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	4182.9	4182.9	78.8 %		07:17:23
1	Y RADIAL	4436.0	4436.0	78.20 %		07:17:23
1	Al 396.153Radial†	254.9	340.4	247.69 ug/L	247.69 ppb	07:17:23
1	Ca 317.933Radial†	141.7	158.3	240.61 ug/L	240.61 ppb	07:17:43
1	Fe 238.204 Radial†	19.7	14.8	122.23 ug/L	122.23 ppb	07:17:43
1	K 766.490 Radial†	3719.4	2073.3	375.33 ug/L	375.33 ppb	07:17:23
1	Mg 279.077 IEC†	11.4	11.2	351.56 ug/L	351.56 ppb	07:17:43
1	Na 589.592 Radial†	-356.0	1165.0	339.50 ug/L	339.50 ppb	07:17:23
1	Sr 421.552†	771.0	963.1	6.0820 ug/L	6.0820 ppb	07:17:23
1	Sc 361.383	803228.4	803228.4	92.084 %		07:18:40
1	Y 371.029	674989.1	674989.1	92.024 %		07:18:40
1	Ag 328.068†	1618.7	1378.6	6.1471 ug/L	6.1471 ppb	07:18:40
1	As 188.979†	44.6	71.9	29.242 ug/L	29.242 ppb	07:19:00
1	B 249.677†	1607.9	2382.9	51.917 ug/L	51.917 ppb	07:18:40
1	Ba 233.527†	599.3	659.7	4.9738 ug/L	4.9738 ppb	07:19:00
1	Be 313.107†	8180.0	13207.7	4.7014 ug/L	4.7014 ppb	07:18:40
1	Cd 226.502†	243.9	467.5	4.9502 ug/L	4.9502 ppb	07:19:00
1	Co 228.616†	144.1	234.9	4.6193 ug/L	4.6193 ppb	07:19:00
1	Cr 267.716†	482.4	450.7	4.8050 ug/L	4.8050 ppb	07:19:00
1	Cu 324.752†	9424.1	3688.2	10.678 ug/L	10.678 ppb	07:18:40
1	Mn 257.610†	9265.8	9581.9	10.136 ug/L	10.136 ppb	07:18:40
1	Mo 202.031†	148.4	140.6	9.5035 ug/L	9.5035 ppb	07:19:00
1	Ni 231.604†	274.5	203.8	4.8493 ug/L	4.8493 ppb	07:19:00
1	P 214.914†	449.5	276.6	157.17 ug/L	157.17 ppb	07:19:00
1	Pb 220.353†	28.6	98.4	11.537 ug/L	11.537 ppb	07:19:00
1	S 181.975 Axial†	116.2	81.6	108.78 ug/L	108.78 ppb	07:19:00
1	Sb 206.836†	66.8	43.3	14.656 ug/L	14.656 ppb	07:19:00
1	Se 196.026†	8.5	33.4	20.775 ug/L	20.775 ppb	07:19:00
1	Si 251.611†	3302.8	3143.2	96.117 ug/L	96.117 ppb	07:19:00
1	Sn 189.927†	56.3	60.4	10.171 ug/L	10.171 ppb	07:19:00
1	Ti 334.940†	1595.8	3083.4	4.7679 ug/L	4.7679 ppb	07:18:40
1	Tl 190.801†	31.1	73.3	21.398 ug/L	21.398 ppb	07:19:00
1	U 409.014†	-365.5	1680.5	47.729 ug/L	47.729 ppb	07:18:40
1	V 292.402†	-708.1	621.9	4.2722 ug/L	4.2722 ppb	07:18:40
1	Zn 213.857†	1672.7	819.8	7.3541 ug/L	7.3541 ppb	07:19:00
1	SiO2†	3441.3	3278.2	214.36 ug/L	214.36 ppb	07:19:56
2	Sc Radial	4743.1	4743.1	89.3 %		07:17:48
2	Y RADIAL	5099.0	5099.0	89.89 %		07:17:48
2	Al 396.153Radial†	234.6	279.4	203.22 ug/L	203.22 ppb	07:17:48
2	Ca 317.933Radial†	133.1	127.5	193.73 ug/L	193.73 ppb	07:18:08
2	Fe 238.204 Radial†	22.6	15.2	125.23 ug/L	125.23 ppb	07:18:08
2	K 766.490 Radial†	3476.1	1243.2	225.00 ug/L	225.00 ppb	07:17:48
2	Mg 279.077 IEC†	15.1	13.7	428.08 ug/L	428.08 ppb	07:18:08
2	Na 589.592 Radial†	-510.8	1045.0	304.55 ug/L	304.55 ppb	07:17:48
2	Sr 421.552†	721.2	791.8	5.0004 ug/L	5.0004 ppb	07:17:48
2	Sc 361.383	803249.8	803249.8	92.087 %		07:19:05
2	Y 371.029	674628.2	674628.2	91.975 %		07:19:05
2	Ag 328.068†	1495.0	1244.2	5.5506 ug/L	5.5506 ppb	07:19:05
2	As 188.979†	48.0	75.6	30.740 ug/L	30.740 ppb	07:19:25
2	B 249.677†	1524.1	2291.8	49.932 ug/L	49.932 ppb	07:19:05
2	Ba 233.527†	619.1	681.2	5.1361 ug/L	5.1361 ppb	07:19:25
2	Be 313.107†	8118.5	13140.6	4.6775 ug/L	4.6775 ppb	07:19:05
2	Cd 226.502†	234.2	456.9	4.8387 ug/L	4.8387 ppb	07:19:25
2	Co 228.616†	149.5	240.7	4.7361 ug/L	4.7361 ppb	07:19:25
2	Cr 267.716†	487.3	455.9	4.8612 ug/L	4.8612 ppb	07:19:25
2	Cu 324.752†	9405.8	3668.0	10.618 ug/L	10.618 ppb	07:19:05
2	Mn 257.610†	9272.9	9589.3	10.141 ug/L	10.141 ppb	07:19:05
2	Mo 202.031†	163.1	156.5	10.580 ug/L	10.580 ppb	07:19:25
2	Ni 231.604†	271.2	200.3	4.7654 ug/L	4.7654 ppb	07:19:25

2	P 214.914†	442.6	269.1	152.86 ug/L	152.86 ppb	07:19:25
2	Pb 220.353†	4.4	72.1	8.4676 ug/L	8.4676 ppb	07:19:25
2	S 181.975 Axial†	122.6	88.6	118.10 ug/L	118.10 ppb	07:19:25
2	Sb 206.836†	64.9	41.3	14.031 ug/L	14.031 ppb	07:19:25
2	Se 196.026†	14.3	39.6	24.575 ug/L	24.575 ppb	07:19:25
2	Si 251.611†	3319.0	3160.7	96.639 ug/L	96.639 ppb	07:19:25
2	Sn 189.927†	60.0	64.4	10.834 ug/L	10.834 ppb	07:19:25
2	Ti 334.940†	1585.7	3072.3	4.7374 ug/L	4.7374 ppb	07:19:05
2	Tl 190.801†	30.3	72.4	21.142 ug/L	21.142 ppb	07:19:25
2	U 409.014†	-307.8	1743.1	49.507 ug/L	49.507 ppb	07:19:05
2	V 292.402†	-669.2	664.2	4.5682 ug/L	4.5682 ppb	07:19:05
2	Zn 213.857†	1669.2	815.9	7.3193 ug/L	7.3193 ppb	07:19:25
2	SiO2†	3404.1	3237.8	211.68 ug/L	211.68 ppb	07:20:01
3	Sc Radial	4830.0	4830.0	91.0 %		07:18:13
3	Y RADIAL	5159.9	5159.9	90.97 %		07:18:13
3	Al 396.153Radial†	233.3	273.2	198.73 ug/L	198.73 ppb	07:18:13
3	Ca 317.933Radial†	137.3	129.4	196.70 ug/L	196.70 ppb	07:18:33
3	Fe 238.204 Radial†	22.9	15.0	124.12 ug/L	124.12 ppb	07:18:33
3	K 766.490 Radial†	3611.0	1321.5	239.17 ug/L	239.17 ppb	07:18:13
3	Mg 279.077 IEC†	10.7	8.6	267.61 ug/L	267.61 ppb	07:18:33
3	Na 589.592 Radial†	-462.8	1108.2	322.95 ug/L	322.95 ppb	07:18:13
3	Sr 421.552†	736.6	794.2	5.0156 ug/L	5.0156 ppb	07:18:13
3	Sc 361.383	815833.9	815833.9	93.529 %		07:19:31
3	Y 371.029	685111.1	685111.1	93.404 %		07:19:31
3	Ag 328.068†	1588.6	1319.2	5.8832 ug/L	5.8832 ppb	07:19:31
3	As 188.979†	49.7	76.6	31.144 ug/L	31.144 ppb	07:19:51
3	B 249.677†	1633.0	2382.8	51.914 ug/L	51.914 ppb	07:19:31
3	Ba 233.527†	599.5	649.8	4.8997 ug/L	4.8997 ppb	07:19:51
3	Be 313.107†	8461.3	13371.1	4.7593 ug/L	4.7593 ppb	07:19:31
3	Cd 226.502†	242.0	461.3	4.8853 ug/L	4.8853 ppb	07:19:51
3	Co 228.616†	150.0	238.8	4.6972 ug/L	4.6972 ppb	07:19:51
3	Cr 267.716†	514.9	477.4	5.0896 ug/L	5.0896 ppb	07:19:51
3	Cu 324.752†	9481.4	3591.3	10.395 ug/L	10.395 ppb	07:19:31
3	Mn 257.610†	9424.3	9595.9	10.155 ug/L	10.155 ppb	07:19:31
3	Mo 202.031†	157.7	148.1	10.009 ug/L	10.009 ppb	07:19:51
3	Ni 231.604†	261.3	185.1	4.4037 ug/L	4.4037 ppb	07:19:51
3	P 214.914†	446.1	265.5	150.80 ug/L	150.80 ppb	07:19:51
3	Pb 220.353†	19.5	88.2	10.338 ug/L	10.338 ppb	07:19:51
3	S 181.975 Axial†	111.2	74.4	99.108 ug/L	99.108 ppb	07:19:51
3	Sb 206.836†	69.0	44.5	15.065 ug/L	15.065 ppb	07:19:51
3	Se 196.026†	21.1	46.7	28.879 ug/L	28.879 ppb	07:19:51
3	Si 251.611†	3305.9	3091.1	94.516 ug/L	94.516 ppb	07:19:51
3	Sn 189.927†	55.2	58.3	9.8050 ug/L	9.8050 ppb	07:19:51
3	Ti 334.940†	1592.5	3053.1	4.7207 ug/L	4.7207 ppb	07:19:31
3	Tl 190.801†	21.3	62.2	18.185 ug/L	18.185 ppb	07:19:51
3	U 409.014†	-294.3	1762.8	50.065 ug/L	50.065 ppb	07:19:31
3	V 292.402†	-689.8	653.4	4.4875 ug/L	4.4875 ppb	07:19:31
3	Zn 213.857†	1671.3	790.2	7.0896 ug/L	7.0896 ppb	07:19:51
3	SiO2†	3400.6	3177.0	207.72 ug/L	207.72 ppb	07:20:06

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807437.4	92.567 %	0.8336			0.90%
Sc Radial	4585.3	86.3 %	6.61			7.66%
Y 371.029	678242.8	92.468 %	0.8113			0.88%
Y RADIAL	4898.3	86.35 %	7.078			8.20%
Ag 328.068†	1314.0	5.8603 ug/L	0.29890	5.8603 ppb	0.29890	5.10%
QC value within limits for Ag 328.068 Recovery = 117.21%						
Al 396.153Radial†	297.7	216.55 ug/L	27.064	216.55 ppb	27.064	12.50%
QC value within limits for Al 396.153Radial Recovery = 108.27%						
As 188.979†	74.7	30.376 ug/L	1.0025	30.376 ppb	1.0025	3.30%
QC value within limits for As 188.979 Recovery = 101.25%						
B 249.677†	2352.5	51.254 ug/L	1.1455	51.254 ppb	1.1455	2.23%
QC value within limits for B 249.677 Recovery = 102.51%						
Ba 233.527†	663.5	5.0032 ug/L	0.12091	5.0032 ppb	0.12091	2.42%
QC value within limits for Ba 233.527 Recovery = 100.06%						
Be 313.107†	13239.8	4.7128 ug/L	0.04207	4.7128 ppb	0.04207	0.89%
QC value within limits for Be 313.107 Recovery = 94.26%						
Ca 317.933Radial†	138.4	210.35 ug/L	26.251	210.35 ppb	26.251	12.48%

QC value within limits for Ca 317.933 Radial Recovery = 105.17%							
Cd 226.502†	461.9	4.8914 ug/L	0.05603	4.8914 ppb	0.05603	1.15%	
QC value within limits for Cd 226.502 Recovery = 97.83%							
Co 228.616†	238.2	4.6842 ug/L	0.05946	4.6842 ppb	0.05946	1.27%	
QC value within limits for Co 228.616 Recovery = 93.68%							
Cr 267.716†	461.3	4.9186 ug/L	0.15070	4.9186 ppb	0.15070	3.06%	
QC value within limits for Cr 267.716 Recovery = 98.37%							
Cu 324.752†	3649.2	10.564 ug/L	0.1488	10.564 ppb	0.1488	1.41%	
QC value within limits for Cu 324.752 Recovery = 105.64%							
Fe 238.204 Radial†	15.0	123.86 ug/L	1.518	123.86 ppb	1.518	1.23%	
QC value within limits for Fe 238.204 Radial Recovery = 123.86%							
K 766.490 Radial†	1546.0	279.83 ug/L	83.008	279.83 ppb	83.008	29.66%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 186.56%							
Mg 279.077 IEC†	11.2	349.08 ug/L	80.263	349.08 ppb	80.263	22.99%	
QC value within limits for Mg 279.077 IEC Recovery = 116.36%							
Mn 257.610†	9589.0	10.144 ug/L	0.0095	10.144 ppb	0.0095	0.09%	
QC value within limits for Mn 257.610 Recovery = 101.44%							
Mo 202.031†	148.4	10.031 ug/L	0.5388	10.031 ppb	0.5388	5.37%	
QC value within limits for Mo 202.031 Recovery = 100.31%							
Na 589.592 Radial†	1106.1	322.33 ug/L	17.484	322.33 ppb	17.484	5.42%	
QC value within limits for Na 589.592 Radial Recovery = 107.44%							
Ni 231.604†	196.4	4.6728 ug/L	0.23680	4.6728 ppb	0.23680	5.07%	
QC value within limits for Ni 231.604 Recovery = 93.46%							
P 214.914†	270.4	153.61 ug/L	3.255	153.61 ppb	3.255	2.12%	
QC value within limits for P 214.914 Recovery = 102.41%							
Pb 220.353†	86.2	10.114 ug/L	1.5471	10.114 ppb	1.5471	15.30%	
QC value within limits for Pb 220.353 Recovery = 101.14%							
S 181.975 Axial†	81.5	108.66 ug/L	9.495	108.66 ppb	9.495	8.74%	
QC value within limits for S 181.975 Axial Recovery = 108.66%							
Sb 206.836†	43.0	14.584 ug/L	0.5205	14.584 ppb	0.5205	3.57%	
QC value greater than the upper limit for Sb 206.836 Recovery = 145.84%							
Se 196.026†	39.9	24.743 ug/L	4.0545	24.743 ppb	4.0545	16.39%	
QC value within limits for Se 196.026 Recovery = 82.48%							
Si 251.611†	3131.7	95.757 ug/L	1.1066	95.757 ppb	1.1066	1.16%	
QC value within limits for Si 251.611 Recovery = 95.76%							
Sn 189.927†	61.0	10.270 ug/L	0.5214	10.270 ppb	0.5214	5.08%	
QC value within limits for Sn 189.927 Recovery = 102.70%							
Sr 421.552†	849.7	5.3660 ug/L	0.62013	5.3660 ppb	0.62013	11.56%	
QC value within limits for Sr 421.552 Recovery = 107.32%							
Ti 334.940†	3069.6	4.7420 ug/L	0.02392	4.7420 ppb	0.02392	0.50%	
QC value within limits for Ti 334.940 Recovery = 94.84%							
Tl 190.801†	69.3	20.241 ug/L	1.7856	20.241 ppb	1.7856	8.82%	
QC value within limits for Tl 190.801 Recovery = 101.21%							
U 409.014†	1728.8	49.100 ug/L	1.2196	49.100 ppb	1.2196	2.48%	
QC value within limits for U 409.014 Recovery = 98.20%							
V 292.402†	646.5	4.4427 ug/L	0.15303	4.4427 ppb	0.15303	3.44%	
QC value within limits for V 292.402 Recovery = 88.85%							
Zn 213.857†	808.6	7.2543 ug/L	0.14372	7.2543 ppb	0.14372	1.98%	
QC value within limits for Zn 213.857 Recovery = 72.54%							
SiO2†	3231.0	211.25 ug/L	3.343	211.25 ppb	3.343	1.58%	
QC value within limits for SiO2 Recovery = 99.18%							
QC Failed. Continue with analysis.							

Sequence No.: 142

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 07:22:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4785.9	4785.9	90.1 %		07:24:08
1	Y RADIAL	5109.1	5109.1	90.07 %		07:24:08
1	Al 396.153Radial†	20.3	39.3	28.616 ug/L	28.616 ppb	07:24:08
1	Ca 317.933Radial†	15.5	-4.4	-6.6509 ug/L	-6.6509 ppb	07:24:28
1	Fe 238.204 Radial†	8.4	-0.8	-6.6888 ug/L	-6.6888 ppb	07:24:28
1	K 766.490 Radial†	2550.0	180.8	32.759 ug/L	32.759 ppb	07:24:08
1	Mg 279.077 IEC†	5.3	2.6	82.080 ug/L	82.080 ppb	07:24:28
1	Na 589.592 Radial†	-1482.1	-27.6	-8.0412 ug/L	-8.0412 ppb	07:24:08
1	Sr 421.552†	6.6	-8.4	-0.0528 ug/L	-0.0528 ppb	07:24:08
1	Sc 361.383	794016.5	794016.5	91.028 %		07:25:25
1	Y 371.029	665943.0	665943.0	90.791 %		07:25:25
1	Ag 328.068†	398.9	59.0	0.2578 ug/L	0.2578 ppb	07:25:25
1	As 188.979†	-16.7	5.1	2.0605 ug/L	2.0605 ppb	07:25:45
1	B 249.677†	-438.6	155.0	3.3798 ug/L	3.3798 ppb	07:25:45
1	Ba 233.527†	-12.1	-4.4	-0.0357 ug/L	-0.0357 ppb	07:25:45
1	Be 313.107†	-4244.6	-338.5	-0.1212 ug/L	-0.1212 ppb	07:25:25
1	Cd 226.502†	-196.9	-13.6	-0.1446 ug/L	-0.1446 ppb	07:25:45
1	Co 228.616†	-74.1	-3.0	-0.0562 ug/L	-0.0562 ppb	07:25:45
1	Cr 267.716†	73.8	7.9	0.0835 ug/L	0.0835 ppb	07:25:45
1	Cu 324.752†	6215.2	281.7	0.8180 ug/L	0.8180 ppb	07:25:25
1	Mn 257.610†	425.1	-13.4	-0.0182 ug/L	-0.0182 ppb	07:25:45
1	Mo 202.031†	29.6	12.0	0.8084 ug/L	0.8084 ppb	07:25:45
1	Ni 231.604†	67.8	-19.7	-0.4698 ug/L	-0.4698 ppb	07:25:45
1	P 214.914†	208.9	18.0	10.200 ug/L	10.200 ppb	07:25:45
1	Pb 220.353†	-68.7	-8.1	-0.9421 ug/L	-0.9421 ppb	07:25:45
1	S 181.975 Axial†	45.0	4.9	6.5665 ug/L	6.5665 ppb	07:25:45
1	Sb 206.836†	29.6	3.3	1.1124 ug/L	1.1124 ppb	07:25:45
1	Se 196.026†	-41.1	-21.0	-12.774 ug/L	-12.774 ppb	07:25:45
1	Si 251.611†	426.6	25.2	0.7602 ug/L	0.7602 ppb	07:25:45
1	Sn 189.927†	3.3	2.9	0.4819 ug/L	0.4819 ppb	07:25:45
1	Ti 334.940†	-1473.1	-267.9	-0.4226 ug/L	-0.4226 ppb	07:25:25
1	Tl 190.801†	-43.5	-8.3	-2.4116 ug/L	-2.4116 ppb	07:25:45
1	U 409.014†	-1961.8	-77.7	-2.2074 ug/L	-2.2074 ppb	07:25:25
1	V 292.402†	-1414.7	-163.2	-1.0566 ug/L	-1.0566 ppb	07:25:25
1	Zn 213.857†	955.2	52.6	0.4782 ug/L	0.4782 ppb	07:25:45
1	SiO2†	425.1	8.1	0.5088 ug/L	0.5088 ppb	07:26:41
2	Sc Radial	4742.2	4742.2	89.3 %		07:24:33
2	Y RADIAL	5054.4	5054.4	89.10 %		07:24:33
2	Al 396.153Radial†	-20.7	-6.5	-4.7156 ug/L	-4.7156 ppb	07:24:33
2	Ca 317.933Radial†	16.6	-2.9	-4.4422 ug/L	-4.4422 ppb	07:24:53
2	Fe 238.204 Radial†	10.6	1.7	14.231 ug/L	14.231 ppb	07:24:53
2	K 766.490 Radial†	2748.7	429.4	77.773 ug/L	77.773 ppb	07:24:33
2	Mg 279.077 IEC†	0.1	-3.1	-96.812 ug/L	-96.812 ppb	07:24:53
2	Na 589.592 Radial†	-1422.2	24.4	7.1049 ug/L	7.1049 ppb	07:24:33
2	Sr 421.552†	16.3	2.6	0.0163 ug/L	0.0163 ppb	07:24:33
2	Sc 361.383	792647.6	792647.6	90.871 %		07:25:50
2	Y 371.029	666481.9	666481.9	90.865 %		07:25:50
2	Ag 328.068†	279.7	-71.5	-0.3146 ug/L	-0.3146 ppb	07:25:50
2	As 188.979†	-23.1	-2.0	-0.8306 ug/L	-0.8306 ppb	07:26:10
2	B 249.677†	-412.8	182.5	3.9758 ug/L	3.9758 ppb	07:26:10
2	Ba 233.527†	-11.4	-3.8	-0.0288 ug/L	-0.0288 ppb	07:26:10
2	Be 313.107†	-4238.7	-340.1	-0.1214 ug/L	-0.1214 ppb	07:25:50
2	Cd 226.502†	-181.9	2.4	0.0237 ug/L	0.0237 ppb	07:26:10
2	Co 228.616†	-73.8	-2.7	-0.0540 ug/L	-0.0540 ppb	07:26:10
2	Cr 267.716†	73.3	7.4	0.0793 ug/L	0.0793 ppb	07:26:10
2	Cu 324.752†	6193.4	269.6	0.7832 ug/L	0.7832 ppb	07:25:50
2	Mn 257.610†	400.4	-39.8	-0.0368 ug/L	-0.0368 ppb	07:26:10
2	Mo 202.031†	15.1	-4.0	-0.2657 ug/L	-0.2657 ppb	07:26:10
2	Ni 231.604†	58.9	-29.4	-0.7010 ug/L	-0.7010 ppb	07:26:10

2	P 214.914†	220.0	30.6	17.476 ug/L	17.476 ppb	07:26:10
2	Pb 220.353†	-60.4	0.9	0.0977 ug/L	0.0977 ppb	07:26:10
2	S 181.975 Axial†	39.9	-0.6	-0.7802 ug/L	-0.7802 ppb	07:26:10
2	Sb 206.836†	27.8	1.4	0.4939 ug/L	0.4939 ppb	07:26:10
2	Se 196.026†	-30.1	-9.0	-5.4017 ug/L	-5.4017 ppb	07:26:10
2	Si 251.611†	411.4	9.3	0.2867 ug/L	0.2867 ppb	07:26:10
2	Sn 189.927†	11.8	12.2	2.0522 ug/L	2.0522 ppb	07:26:10
2	Ti 334.940†	-1379.0	-167.2	-0.2520 ug/L	-0.2520 ppb	07:25:50
2	Tl 190.801†	-35.6	0.3	0.0913 ug/L	0.0913 ppb	07:26:10
2	U 409.014†	-1909.8	-24.3	-0.6914 ug/L	-0.6914 ppb	07:25:50
2	V 292.402†	-1326.3	-68.6	-0.4569 ug/L	-0.4569 ppb	07:25:50
2	Zn 213.857†	930.1	26.8	0.2446 ug/L	0.2446 ppb	07:26:10
2	SiO2†	496.7	87.7	5.7506 ug/L	5.7506 ppb	07:26:46
3	Sc Radial	4735.0	4735.0	89.2 %		07:24:58
3	Y RADIAL	5080.1	5080.1	89.56 %		07:24:58
3	Al 396.153Radial†	1.4	18.3	13.338 ug/L	13.338 ppb	07:24:58
3	Ca 317.933Radial†	15.2	-4.5	-6.8930 ug/L	-6.8930 ppb	07:25:18
3	Fe 238.204 Radial†	10.8	2.0	16.452 ug/L	16.452 ppb	07:25:18
3	K 766.490 Radial†	2710.3	391.0	70.823 ug/L	70.823 ppb	07:24:58
3	Mg 279.077 IEC†	2.4	-0.5	-16.485 ug/L	-16.485 ppb	07:25:18
3	Na 589.592 Radial†	-1396.1	51.3	14.949 ug/L	14.949 ppb	07:24:58
3	Sr 421.552†	13.7	-0.3	-0.0019 ug/L	-0.0019 ppb	07:24:58
3	Sc 361.383	803351.9	803351.9	92.098 %		07:26:16
3	Y 371.029	674909.9	674909.9	92.014 %		07:26:16
3	Ag 328.068†	267.3	-89.0	-0.3856 ug/L	-0.3856 ppb	07:26:16
3	As 188.979†	-19.9	1.8	0.7521 ug/L	0.7521 ppb	07:26:36
3	B 249.677†	-477.6	118.2	2.5755 ug/L	2.5755 ppb	07:26:36
3	Ba 233.527†	-6.0	2.4	0.0182 ug/L	0.0182 ppb	07:26:36
3	Be 313.107†	-4219.0	-256.5	-0.0914 ug/L	-0.0914 ppb	07:26:16
3	Cd 226.502†	-193.7	-7.7	-0.0846 ug/L	-0.0846 ppb	07:26:36
3	Co 228.616†	-80.1	-8.5	-0.1670 ug/L	-0.1670 ppb	07:26:36
3	Cr 267.716†	58.9	-9.2	-0.0958 ug/L	-0.0958 ppb	07:26:36
3	Cu 324.752†	6348.7	347.4	1.0121 ug/L	1.0121 ppb	07:26:16
3	Mn 257.610†	415.3	-29.4	-0.0289 ug/L	-0.0289 ppb	07:26:36
3	Mo 202.031†	18.8	-0.2	-0.0096 ug/L	-0.0096 ppb	07:26:36
3	Ni 231.604†	77.7	-9.8	-0.2341 ug/L	-0.2341 ppb	07:26:36
3	P 214.914†	197.9	3.4	1.7605 ug/L	1.7605 ppb	07:26:36
3	Pb 220.353†	-69.2	-7.8	-0.9074 ug/L	-0.9074 ppb	07:26:36
3	S 181.975 Axial†	44.9	4.2	5.5535 ug/L	5.5535 ppb	07:26:36
3	Sb 206.836†	35.0	8.8	2.9319 ug/L	2.9319 ppb	07:26:36
3	Se 196.026†	-28.2	-6.5	-3.9117 ug/L	-3.9117 ppb	07:26:36
3	Si 251.611†	407.5	-0.9	-0.0284 ug/L	-0.0284 ppb	07:26:36
3	Sn 189.927†	10.5	10.7	1.7900 ug/L	1.7900 ppb	07:26:36
3	Ti 334.940†	-1314.8	-77.2	-0.1167 ug/L	-0.1167 ppb	07:26:16
3	Tl 190.801†	-31.2	5.6	1.6204 ug/L	1.6204 ppb	07:26:36
3	U 409.014†	-2118.5	-222.8	-6.3334 ug/L	-6.3334 ppb	07:26:16
3	V 292.402†	-1280.8	0.3	-0.0130 ug/L	-0.0130 ppb	07:26:16
3	Zn 213.857†	956.2	41.5	0.3742 ug/L	0.3742 ppb	07:26:36
3	SiO2†	465.4	46.4	3.0380 ug/L	3.0380 ppb	07:26:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	796672.0	91.333 %	0.6678			0.73%
Sc Radial	4754.4	89.5 %	0.52			0.58%
Y 371.029	669111.6	91.223 %	0.6856			0.75%
Y RADIAL	5081.2	89.58 %	0.483			0.54%
Ag 328.068†	-33.9	-0.1475 ug/L	0.35275	-0.1475 ppb	0.35275	239.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.0	12.413 ug/L	16.6850	12.413 ppb	16.6850	134.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.6	0.6607 ug/L	1.44772	0.6607 ppb	1.44772	219.13%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	151.9	3.3103 ug/L	0.70273	3.3103 ppb	0.70273	21.23%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.9	-0.0155 ug/L	0.02934	-0.0155 ppb	0.02934	189.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-311.7	-0.1113 ug/L	0.01726	-0.1113 ppb	0.01726	15.50%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.9	-5.9954 ug/L	1.35050	-5.9954 ppb	1.35050	22.53%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-6.3	-0.0685 ug/L	0.08531	-0.0685 ppb	0.08531	124.58%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.8	-0.0924 ug/L	0.06465	-0.0924 ppb	0.06465	69.96%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	2.0	0.0223 ug/L	0.10232	0.0223 ppb	0.10232	457.97%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	299.6	0.8711 ug/L	0.12335	0.8711 ppb	0.12335	14.16%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.0	7.9981 ug/L	12.76760	7.9981 ppb	12.76760	159.63%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	333.7	60.452 ug/L	24.2332	60.452 ppb	24.2332	40.09%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.3	-10.406 ug/L	89.6004	-10.406 ppb	89.6004	861.06%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-27.5	-0.0279 ug/L	0.00933	-0.0279 ppb	0.00933	33.43%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.6	0.1777 ug/L	0.56103	0.1777 ppb	0.56103	315.70%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	16.0	4.6709 ug/L	11.68672	4.6709 ppb	11.68672	250.20%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-19.7	-0.4683 ug/L	0.23344	-0.4683 ppb	0.23344	49.85%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	17.3	9.8120 ug/L	7.86476	9.8120 ppb	7.86476	80.15%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.0	-0.5839 ug/L	0.59056	-0.5839 ppb	0.59056	101.13%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.8	3.7799 ug/L	3.98157	3.7799 ppb	3.98157	105.33%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.5	1.5128 ug/L	1.26733	1.5128 ppb	1.26733	83.78%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-12.1	-7.3625 ug/L	4.74530	-7.3625 ppb	4.74530	64.45%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	11.2	0.3395 ug/L	0.39697	0.3395 ppb	0.39697	116.93%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	8.6	1.4414 ug/L	0.84118	1.4414 ppb	0.84118	58.36%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-2.0	-0.0128 ug/L	0.03580	-0.0128 ppb	0.03580	279.57%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-170.8	-0.2638 ug/L	0.15330	-0.2638 ppb	0.15330	58.12%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.8	-0.2333 ug/L	2.03547	-0.2333 ppb	2.03547	872.44%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-108.3	-3.0774 ug/L	2.91987	-3.0774 ppb	2.91987	94.88%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-77.2	-0.5088 ug/L	0.52373	-0.5088 ppb	0.52373	102.93%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	40.3	0.3657 ug/L	0.11706	0.3657 ppb	0.11706	32.01%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	47.4	3.0991 ug/L	2.62146	3.0991 ppb	2.62146	84.59%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

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

Autosampler Location: 7
 Date Collected: 1/14/2010 08:44:37
 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	4901.3	4901.3	92.3 %		08:46:29
1	Y RADIAL	5205.6	5205.6	91.77 %		08:46:29
1	Al 396.153Radial†	6181.0	6713.7	4870.9 ug/L	4870.9 ppb	08:46:29
1	Ca 317.933Radial†	2958.6	3184.0	4838.9 ug/L	4838.9 ppb	08:46:50
1	Fe 238.204 Radial†	558.0	594.3	4914.7 ug/L	4914.7 ppb	08:46:50
1	K 766.490 Radial†	28334.4	28050.6	5074.8 ug/L	5074.8 ppb	08:46:29
1	Mg 279.077 IEC†	151.6	161.0	5032.6 ug/L	5032.6 ppb	08:46:50
1	Na 589.592 Radial†	30092.0	34220.5	9972.6 ug/L	9972.6 ppb	08:46:29
1	Sr 421.552†	72584.7	78627.0	496.66 ug/L	496.66 ppb	08:46:29
1	Sc 361.383	818365.3	818365.3	93.820 %		08:47:47
1	Y 371.029	676469.4	676469.4	92.226 %		08:47:47
1	Ag 328.068†	100163.1	106382.2	476.38 ug/L	476.38 ppb	08:47:52
1	As 188.979†	1122.7	1220.1	499.55 ug/L	499.55 ppb	08:48:12
1	B 249.677†	20090.9	22051.2	478.55 ug/L	478.55 ppb	08:47:52
1	Ba 233.527†	61137.7	65174.1	491.35 ug/L	491.35 ppb	08:47:52
1	Be 313.107†	1292467.8	1381935.3	491.87 ug/L	491.87 ppb	08:47:47
1	Cd 226.502†	43193.0	46241.0	489.59 ug/L	489.59 ppb	08:47:52
1	Co 228.616†	23435.9	25058.2	491.71 ug/L	491.71 ppb	08:47:52
1	Cr 267.716†	42924.9	45679.5	488.72 ug/L	488.72 ppb	08:47:52
1	Cu 324.752†	162592.1	166757.1	483.67 ug/L	483.67 ppb	08:47:52
1	Mn 257.610†	440080.9	468591.4	496.10 ug/L	496.10 ppb	08:47:47
1	Mo 202.031†	6904.1	7338.3	495.89 ug/L	495.89 ppb	08:48:12
1	Ni 231.604†	19377.0	20559.3	489.09 ug/L	489.09 ppb	08:47:52
1	P 214.914†	4226.1	4293.0	2377.1 ug/L	2377.1 ppb	08:48:12
1	Pb 220.353†	3913.9	4239.1	496.08 ug/L	496.08 ppb	08:48:12
1	S 181.975 Axial†	733.5	737.2	981.96 ug/L	981.96 ppb	08:48:12
1	Sb 206.836†	1417.7	1481.9	507.93 ug/L	507.93 ppb	08:48:12
1	Se 196.026†	748.6	822.1	518.04 ug/L	518.04 ppb	08:48:12
1	Si 251.611†	76290.6	80872.9	2469.9 ug/L	2469.9 ppb	08:47:52
1	Sn 189.927†	2794.6	2978.0	500.29 ug/L	500.29 ppb	08:48:12
1	Ti 334.940†	290338.6	310815.4	482.40 ug/L	482.40 ppb	08:47:52
1	Tl 190.801†	1563.4	1705.9	500.16 ug/L	500.16 ppb	08:48:12
1	U 409.014†	14052.9	17056.0	483.01 ug/L	483.01 ppb	08:47:52
1	V 292.402†	68213.7	74098.3	490.89 ug/L	490.89 ppb	08:47:52
1	Zn 213.857†	52201.0	54643.1	489.77 ug/L	489.77 ppb	08:47:52
1	SiO2†	76453.4	81030.9	5291.4 ug/L	5291.4 ppb	08:49:20
2	Sc Radial	4868.5	4868.5	91.7 %		08:46:55
2	Y RADIAL	5191.2	5191.2	91.52 %		08:46:55
2	Al 396.153Radial†	6183.1	6761.0	4905.0 ug/L	4905.0 ppb	08:46:55
2	Ca 317.933Radial†	3003.0	3254.0	4945.3 ug/L	4945.3 ppb	08:47:15
2	Fe 238.204 Radial†	568.1	609.5	5039.6 ug/L	5039.6 ppb	08:47:15
2	K 766.490 Radial†	28111.2	28014.1	5068.2 ug/L	5068.2 ppb	08:46:55
2	Mg 279.077 IEC†	152.4	163.0	5095.5 ug/L	5095.5 ppb	08:47:15
2	Na 589.592 Radial†	29807.5	34130.0	9946.2 ug/L	9946.2 ppb	08:46:55
2	Sr 421.552†	72096.2	78624.4	496.65 ug/L	496.65 ppb	08:46:55
2	Sc 361.383	800315.2	800315.2	91.750 %		08:48:18
2	Y 371.029	661050.9	661050.9	90.124 %		08:48:18
2	Ag 328.068†	100900.3	109593.6	490.74 ug/L	490.74 ppb	08:48:23
2	As 188.979†	1103.9	1226.6	502.29 ug/L	502.29 ppb	08:48:43
2	B 249.677†	20099.7	22543.7	489.24 ug/L	489.24 ppb	08:48:23
2	Ba 233.527†	60914.8	66400.8	500.60 ug/L	500.60 ppb	08:48:23
2	Be 313.107†	1261545.2	1379302.6	490.96 ug/L	490.96 ppb	08:48:18
2	Cd 226.502†	43218.3	47306.9	500.88 ug/L	500.88 ppb	08:48:23
2	Co 228.616†	23369.9	25549.6	501.35 ug/L	501.35 ppb	08:48:23
2	Cr 267.716†	43023.6	46818.9	500.91 ug/L	500.91 ppb	08:48:23
2	Cu 324.752†	162436.0	170495.6	494.52 ug/L	494.52 ppb	08:48:23
2	Mn 257.610†	431942.2	470300.2	497.92 ug/L	497.92 ppb	08:48:18
2	Mo 202.031†	6879.4	7477.4	505.29 ug/L	505.29 ppb	08:48:43
2	Ni 231.604†	19379.0	21027.2	500.23 ug/L	500.23 ppb	08:48:23

2	P 214.914†	4185.3	4350.1	2407.9 ug/L	2407.9 ppb	08:48:43
2	Pb 220.353†	3881.0	4297.4	502.89 ug/L	502.89 ppb	08:48:43
2	S 181.975 Axial†	727.4	748.3	996.66 ug/L	996.66 ppb	08:48:43
2	Sb 206.836†	1404.5	1501.5	514.76 ug/L	514.76 ppb	08:48:43
2	Se 196.026†	736.1	826.4	521.11 ug/L	521.11 ppb	08:48:43
2	Si 251.611†	76333.1	82753.2	2527.4 ug/L	2527.4 ppb	08:48:23
2	Sn 189.927†	2785.8	3035.5	509.96 ug/L	509.96 ppb	08:48:43
2	Ti 334.940†	290093.9	317528.3	492.82 ug/L	492.82 ppb	08:48:23
2	Tl 190.801†	1541.3	1719.4	504.12 ug/L	504.12 ppb	08:48:43
2	U 409.014†	14024.0	17362.4	491.68 ug/L	491.68 ppb	08:48:23
2	V 292.402†	68178.7	75699.9	501.47 ug/L	501.47 ppb	08:48:23
2	Zn 213.857†	52132.5	55823.3	500.34 ug/L	500.34 ppb	08:48:23
2	SiO2†	77906.8	84452.9	5515.2 ug/L	5515.2 ppb	08:49:25
3	Sc Radial	4750.7	4750.7	89.5 %		08:47:20
3	Y RADIAL	5025.1	5025.1	88.59 %		08:47:20
3	Al 396.153Radial†	6220.5	6970.0	5057.5 ug/L	5057.5 ppb	08:47:20
3	Ca 317.933Radial†	3007.5	3340.2	5076.2 ug/L	5076.2 ppb	08:47:40
3	Fe 238.204 Radial†	566.3	622.9	5150.3 ug/L	5150.3 ppb	08:47:40
3	K 766.490 Radial†	28084.9	28744.5	5200.4 ug/L	5200.4 ppb	08:47:20
3	Mg 279.077 IEC†	155.1	170.1	5317.9 ug/L	5317.9 ppb	08:47:40
3	Na 589.592 Radial†	29810.4	34938.9	10182 ug/L	10182 ppb	08:47:20
3	Sr 421.552†	72401.2	80914.0	511.11 ug/L	511.11 ppb	08:47:20
3	Sc 361.383	805554.6	805554.6	92.351 %		08:48:49
3	Y 371.029	666230.3	666230.3	90.830 %		08:48:49
3	Ag 328.068†	102341.9	110439.4	494.55 ug/L	494.55 ppb	08:48:54
3	As 188.979†	1099.2	1213.6	497.10 ug/L	497.10 ppb	08:49:14
3	B 249.677†	20479.7	22812.8	495.08 ug/L	495.08 ppb	08:48:54
3	Ba 233.527†	61887.0	67021.8	505.28 ug/L	505.28 ppb	08:48:54
3	Be 313.107†	1274895.6	1384815.8	492.93 ug/L	492.93 ppb	08:48:49
3	Cd 226.502†	43835.1	47668.4	504.70 ug/L	504.70 ppb	08:48:54
3	Co 228.616†	23688.5	25729.0	504.85 ug/L	504.85 ppb	08:48:54
3	Cr 267.716†	43535.9	47068.7	503.58 ug/L	503.58 ppb	08:48:54
3	Cu 324.752†	165022.1	172144.4	499.30 ug/L	499.30 ppb	08:48:54
3	Mn 257.610†	434492.3	469999.5	497.60 ug/L	497.60 ppb	08:48:49
3	Mo 202.031†	6882.0	7431.5	502.20 ug/L	502.20 ppb	08:49:14
3	Ni 231.604†	19634.0	21166.0	503.53 ug/L	503.53 ppb	08:48:54
3	P 214.914†	4209.0	4346.1	2404.5 ug/L	2404.5 ppb	08:49:14
3	Pb 220.353†	3895.0	4284.9	501.46 ug/L	501.46 ppb	08:49:14
3	S 181.975 Axial†	738.8	755.5	1006.3 ug/L	1006.3 ppb	08:49:14
3	Sb 206.836†	1408.7	1496.2	512.83 ug/L	512.83 ppb	08:49:14
3	Se 196.026†	743.5	829.2	523.17 ug/L	523.17 ppb	08:49:14
3	Si 251.611†	77355.4	83319.0	2544.7 ug/L	2544.7 ppb	08:48:54
3	Sn 189.927†	2770.7	2999.5	503.94 ug/L	503.94 ppb	08:49:14
3	Ti 334.940†	294449.0	320187.7	496.94 ug/L	496.94 ppb	08:48:54
3	Tl 190.801†	1548.0	1715.7	503.04 ug/L	503.04 ppb	08:49:14
3	U 409.014†	14324.9	17588.8	498.09 ug/L	498.09 ppb	08:48:54
3	V 292.402†	69206.5	76329.5	505.54 ug/L	505.54 ppb	08:48:54
3	Zn 213.857†	52864.3	56246.1	504.12 ug/L	504.12 ppb	08:48:54
3	SiO2†	77459.1	83415.9	5447.4 ug/L	5447.4 ppb	08:49:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808078.4	92.640 %	1.0646			1.15%
Sc Radial	4840.2	91.1 %	1.49			1.64%
Y 371.029	667916.9	91.060 %	1.0697			1.17%
Y RADIAL	5140.6	90.63 %	1.769			1.95%
Ag 328.068†	108805.1	487.23 ug/L	9.582	487.23 ppb	9.582	1.97%
QC value within limits for Ag 328.068 Recovery = 97.45%						
Al 396.153Radial†	6814.9	4944.5 ug/L	99.37	4944.5 ppb	99.37	2.01%
QC value within limits for Al 396.153Radial Recovery = 98.89%						
As 188.979†	1220.1	499.65 ug/L	2.599	499.65 ppb	2.599	0.52%
QC value within limits for As 188.979 Recovery = 99.93%						
B 249.677†	22469.2	487.62 ug/L	8.382	487.62 ppb	8.382	1.72%
QC value within limits for B 249.677 Recovery = 97.52%						
Ba 233.527†	66198.9	499.08 ug/L	7.091	499.08 ppb	7.091	1.42%
QC value within limits for Ba 233.527 Recovery = 99.82%						
Be 313.107†	1382017.9	491.92 ug/L	0.985	491.92 ppb	0.985	0.20%
QC value within limits for Be 313.107 Recovery = 98.38%						
Ca 317.933Radial†	3259.4	4953.4 ug/L	118.89	4953.4 ppb	118.89	2.40%

QC value within limits for Ca 317.933 Radial Recovery = 99.07%							
Cd 226.502†	47072.1	498.39 ug/L	7.853	498.39 ppb	7.853	1.58%	
QC value within limits for Cd 226.502 Recovery = 99.68%							
Co 228.616†	25445.6	499.31 ug/L	6.805	499.31 ppb	6.805	1.36%	
QC value within limits for Co 228.616 Recovery = 99.86%							
Cr 267.716†	46522.3	497.74 ug/L	7.923	497.74 ppb	7.923	1.59%	
QC value within limits for Cr 267.716 Recovery = 99.55%							
Cu 324.752†	169799.0	492.50 ug/L	8.008	492.50 ppb	8.008	1.63%	
QC value within limits for Cu 324.752 Recovery = 98.50%							
Fe 238.204 Radial†	608.9	5034.9 ug/L	117.89	5034.9 ppb	117.89	2.34%	
QC value within limits for Fe 238.204 Radial Recovery = 100.70%							
K 766.490 Radial†	28269.8	5114.5 ug/L	74.47	5114.5 ppb	74.47	1.46%	
QC value within limits for K 766.490 Radial Recovery = 102.29%							
Mg 279.077 IEC†	164.7	5148.7 ug/L	149.86	5148.7 ppb	149.86	2.91%	
QC value within limits for Mg 279.077 IEC Recovery = 102.97%							
Mn 257.610†	469630.4	497.20 ug/L	0.971	497.20 ppb	0.971	0.20%	
QC value within limits for Mn 257.610 Recovery = 99.44%							
Mo 202.031†	7415.7	501.13 ug/L	4.790	501.13 ppb	4.790	0.96%	
QC value within limits for Mo 202.031 Recovery = 100.23%							
Na 589.592 Radial†	34429.8	10034 ug/L	129.2	10034 ppb	129.2	1.29%	
QC value within limits for Na 589.592 Radial Recovery = 100.34%							
Ni 231.604†	20917.5	497.62 ug/L	7.563	497.62 ppb	7.563	1.52%	
QC value within limits for Ni 231.604 Recovery = 99.52%							
P 214.914†	4329.7	2396.5 ug/L	16.85	2396.5 ppb	16.85	0.70%	
QC value within limits for P 214.914 Recovery = 95.86%							
Pb 220.353†	4273.8	500.15 ug/L	3.590	500.15 ppb	3.590	0.72%	
QC value within limits for Pb 220.353 Recovery = 100.03%							
S 181.975 Axial†	747.0	994.96 ug/L	12.242	994.96 ppb	12.242	1.23%	
QC value within limits for S 181.975 Axial Recovery = 99.50%							
Sb 206.836†	1493.2	511.84 ug/L	3.521	511.84 ppb	3.521	0.69%	
QC value within limits for Sb 206.836 Recovery = 102.37%							
Se 196.026†	825.9	520.77 ug/L	2.579	520.77 ppb	2.579	0.50%	
QC value within limits for Se 196.026 Recovery = 104.15%							
Si 251.611†	82315.0	2514.0 ug/L	39.16	2514.0 ppb	39.16	1.56%	
QC value within limits for Si 251.611 Recovery = 100.56%							
Sn 189.927†	3004.3	504.73 ug/L	4.887	504.73 ppb	4.887	0.97%	
QC value within limits for Sn 189.927 Recovery = 100.95%							
Sr 421.552†	79388.5	501.47 ug/L	8.345	501.47 ppb	8.345	1.66%	
QC value within limits for Sr 421.552 Recovery = 100.29%							
Ti 334.940†	316177.1	490.72 ug/L	7.497	490.72 ppb	7.497	1.53%	
QC value within limits for Ti 334.940 Recovery = 98.14%							
Tl 190.801†	1713.6	502.44 ug/L	2.044	502.44 ppb	2.044	0.41%	
QC value within limits for Tl 190.801 Recovery = 100.49%							
U 409.014†	17335.7	490.93 ug/L	7.567	490.93 ppb	7.567	1.54%	
QC value within limits for U 409.014 Recovery = 98.19%							
V 292.402†	75375.9	499.30 ug/L	7.563	499.30 ppb	7.563	1.51%	
QC value within limits for V 292.402 Recovery = 99.86%							
Zn 213.857†	55570.8	498.08 ug/L	7.441	498.08 ppb	7.441	1.49%	
QC value within limits for Zn 213.857 Recovery = 99.62%							
SiO2†	82966.6	5418.0 ug/L	114.74	5418.0 ppb	114.74	2.12%	
QC value within limits for SiO2 Recovery = 101.32%							
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 1/14/2010 08:51:39

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	4881.3	4881.3	91.9 %		08:53:32
1	Y RADIAL	5230.4	5230.4	92.21 %		08:53:32
1	Al 396.153Radial†	247.8	286.3	208.22 ug/L	208.22 ppb	08:53:32
1	Ca 317.933Radial†	136.8	127.3	193.47 ug/L	193.47 ppb	08:53:52
1	Fe 238.204 Radial†	20.9	12.6	103.77 ug/L	103.77 ppb	08:53:52
1	K 766.490 Radial†	3613.2	1282.1	232.06 ug/L	232.06 ppb	08:53:32
1	Mg 279.077 IEC†	8.0	5.5	171.71 ug/L	171.71 ppb	08:53:52
1	Na 589.592 Radial†	-621.1	941.3	274.31 ug/L	274.31 ppb	08:53:32
1	Sr 421.552†	749.2	799.3	5.0479 ug/L	5.0479 ppb	08:53:32
1	Sc 361.383	812607.8	812607.8	93.159 %		08:54:49
1	Y 371.029	682391.9	682391.9	93.034 %		08:54:49
1	Ag 328.068†	1690.2	1435.0	6.3894 ug/L	6.3894 ppb	08:54:49
1	As 188.979†	47.6	74.5	30.305 ug/L	30.305 ppb	08:55:09
1	B 249.677†	1620.6	2376.4	51.777 ug/L	51.777 ppb	08:54:49
1	Ba 233.527†	627.4	682.3	5.1430 ug/L	5.1430 ppb	08:55:09
1	Be 313.107†	8390.7	13331.2	4.7452 ug/L	4.7452 ppb	08:54:49
1	Cd 226.502†	247.5	468.2	4.9610 ug/L	4.9610 ppb	08:55:09
1	Co 228.616†	158.9	249.0	4.8990 ug/L	4.8990 ppb	08:55:09
1	Cr 267.716†	478.0	439.9	4.6880 ug/L	4.6880 ppb	08:55:09
1	Cu 324.752†	9557.9	3713.8	10.749 ug/L	10.749 ppb	08:54:49
1	Mn 257.610†	9454.3	9668.1	10.233 ug/L	10.233 ppb	08:54:49
1	Mo 202.031†	170.0	161.9	10.940 ug/L	10.940 ppb	08:55:09
1	Ni 231.604†	276.3	202.3	4.8129 ug/L	4.8129 ppb	08:55:09
1	P 214.914†	438.0	258.7	146.86 ug/L	146.86 ppb	08:55:09
1	Pb 220.353†	20.5	89.4	10.484 ug/L	10.484 ppb	08:55:09
1	S 181.975 Axial†	105.4	68.6	91.434 ug/L	91.434 ppb	08:55:09
1	Sb 206.836†	74.2	50.5	17.074 ug/L	17.074 ppb	08:55:09
1	Se 196.026†	17.3	42.7	26.365 ug/L	26.365 ppb	08:55:09
1	Si 251.611†	3463.0	3273.9	100.10 ug/L	100.10 ppb	08:54:49
1	Sn 189.927†	63.6	67.5	11.348 ug/L	11.348 ppb	08:55:09
1	Ti 334.940†	1593.2	3060.6	4.7395 ug/L	4.7395 ppb	08:54:49
1	Tl 190.801†	34.9	76.9	22.463 ug/L	22.463 ppb	08:55:09
1	U 409.014†	-268.7	1789.0	50.813 ug/L	50.813 ppb	08:54:49
1	V 292.402†	-751.1	584.7	4.0544 ug/L	4.0544 ppb	08:54:49
1	Zn 213.857†	1683.7	810.6	7.2734 ug/L	7.2734 ppb	08:55:09
1	SiO2†	3555.1	3357.2	219.49 ug/L	219.49 ppb	08:56:05
2	Sc Radial	4840.8	4840.8	91.2 %		08:53:57
2	Y RADIAL	5162.6	5162.6	91.01 %		08:53:57
2	Al 396.153Radial†	243.8	284.2	206.72 ug/L	206.72 ppb	08:53:57
2	Ca 317.933Radial†	139.5	131.4	199.72 ug/L	199.72 ppb	08:54:17
2	Fe 238.204 Radial†	23.6	15.7	129.35 ug/L	129.35 ppb	08:54:17
2	K 766.490 Radial†	3519.1	1211.8	219.32 ug/L	219.32 ppb	08:53:57
2	Mg 279.077 IEC†	11.7	9.6	300.66 ug/L	300.66 ppb	08:54:17
2	Na 589.592 Radial†	-674.5	877.0	255.58 ug/L	255.58 ppb	08:53:57
2	Sr 421.552†	719.1	773.1	4.8823 ug/L	4.8823 ppb	08:53:57
2	Sc 361.383	817519.6	817519.6	93.723 %		08:55:14
2	Y 371.029	685898.8	685898.8	93.512 %		08:55:14
2	Ag 328.068†	1668.6	1401.2	6.2456 ug/L	6.2456 ppb	08:55:14
2	As 188.979†	46.5	73.1	29.715 ug/L	29.715 ppb	08:55:34
2	B 249.677†	1646.6	2393.6	52.150 ug/L	52.150 ppb	08:55:14
2	Ba 233.527†	626.0	676.8	5.1020 ug/L	5.1020 ppb	08:55:34
2	Be 313.107†	8439.4	13329.1	4.7446 ug/L	4.7446 ppb	08:55:14
2	Cd 226.502†	244.2	463.1	4.9045 ug/L	4.9045 ppb	08:55:34
2	Co 228.616†	164.1	253.5	4.9848 ug/L	4.9848 ppb	08:55:34
2	Cr 267.716†	514.7	475.9	5.0731 ug/L	5.0731 ppb	08:55:34
2	Cu 324.752†	9701.4	3805.1	11.015 ug/L	11.015 ppb	08:55:14
2	Mn 257.610†	9509.2	9665.7	10.228 ug/L	10.228 ppb	08:55:14
2	Mo 202.031†	158.8	148.9	10.066 ug/L	10.066 ppb	08:55:34
2	Ni 231.604†	278.2	202.6	4.8206 ug/L	4.8206 ppb	08:55:34

2	P 214.914†	461.6	281.0	159.64 ug/L	159.64 ppb	08:55:34
2	Pb 220.353†	13.3	81.6	9.5707 ug/L	9.5707 ppb	08:55:34
2	S 181.975 Axial†	117.1	80.5	107.23 ug/L	107.23 ppb	08:55:34
2	Sb 206.836†	66.3	41.5	14.114 ug/L	14.114 ppb	08:55:34
2	Se 196.026†	20.2	45.7	28.254 ug/L	28.254 ppb	08:55:34
2	Si 251.611†	3524.5	3317.1	101.43 ug/L	101.43 ppb	08:55:14
2	Sn 189.927†	64.5	68.0	11.439 ug/L	11.439 ppb	08:55:34
2	Ti 334.940†	1634.6	3094.5	4.7817 ug/L	4.7817 ppb	08:55:14
2	Tl 190.801†	29.0	70.4	20.566 ug/L	20.566 ppb	08:55:34
2	U 409.014†	-225.9	1836.4	52.156 ug/L	52.156 ppb	08:55:14
2	V 292.402†	-761.4	578.5	4.0028 ug/L	4.0028 ppb	08:55:14
2	Zn 213.857†	1702.7	820.0	7.3551 ug/L	7.3551 ppb	08:55:34
2	SiO2†	3496.1	3271.4	213.90 ug/L	213.90 ppb	08:56:10
3	Sc Radial	5009.3	5009.3	94.3 %		08:54:22
3	Y RADIAL	5373.0	5373.0	94.72 %		08:54:22
3	Al 396.153Radial†	228.1	258.6	188.06 ug/L	188.06 ppb	08:54:22
3	Ca 317.933Radial†	141.8	128.8	195.75 ug/L	195.75 ppb	08:54:42
3	Fe 238.204 Radial†	19.9	11.0	90.444 ug/L	90.444 ppb	08:54:42
3	K 766.490 Radial†	3513.9	1076.4	194.79 ug/L	194.79 ppb	08:54:22
3	Mg 279.077 IEC†	11.1	8.5	267.25 ug/L	267.25 ppb	08:54:42
3	Na 589.592 Radial†	-618.6	961.2	280.10 ug/L	280.10 ppb	08:54:22
3	Sr 421.552†	713.0	740.1	4.6741 ug/L	4.6741 ppb	08:54:22
3	Sc 361.383	811370.3	811370.3	93.018 %		08:55:39
3	Y 371.029	681854.1	681854.1	92.960 %		08:55:39
3	Ag 328.068†	1577.1	1316.2	5.8583 ug/L	5.8583 ppb	08:55:39
3	As 188.979†	43.9	70.6	28.696 ug/L	28.696 ppb	08:55:59
3	B 249.677†	1609.4	2367.0	51.575 ug/L	51.575 ppb	08:55:39
3	Ba 233.527†	633.7	690.1	5.2018 ug/L	5.2018 ppb	08:55:59
3	Be 313.107†	8338.1	13288.4	4.7304 ug/L	4.7304 ppb	08:55:39
3	Cd 226.502†	241.7	462.5	4.9015 ug/L	4.9015 ppb	08:55:59
3	Co 228.616†	153.6	243.6	4.7910 ug/L	4.7910 ppb	08:55:59
3	Cr 267.716†	496.1	460.1	4.9048 ug/L	4.9048 ppb	08:55:59
3	Cu 324.752†	9560.1	3731.7	10.800 ug/L	10.800 ppb	08:55:39
3	Mn 257.610†	9420.3	9647.1	10.206 ug/L	10.206 ppb	08:55:39
3	Mo 202.031†	160.3	151.8	10.257 ug/L	10.257 ppb	08:55:59
3	Ni 231.604†	280.4	207.2	4.9293 ug/L	4.9293 ppb	08:55:59
3	P 214.914†	445.3	267.3	151.77 ug/L	151.77 ppb	08:55:59
3	Pb 220.353†	35.8	105.8	12.394 ug/L	12.394 ppb	08:55:59
3	S 181.975 Axial†	120.2	84.7	112.82 ug/L	112.82 ppb	08:55:59
3	Sb 206.836†	60.5	35.8	12.202 ug/L	12.202 ppb	08:55:59
3	Se 196.026†	22.9	48.8	30.009 ug/L	30.009 ppb	08:55:59
3	Si 251.611†	3443.7	3258.7	99.644 ug/L	99.644 ppb	08:55:39
3	Sn 189.927†	60.0	63.7	10.722 ug/L	10.722 ppb	08:55:59
3	Ti 334.940†	1688.2	3165.3	4.8944 ug/L	4.8944 ppb	08:55:39
3	Tl 190.801†	19.5	60.5	17.673 ug/L	17.673 ppb	08:55:59
3	U 409.014†	-261.2	1796.6	51.029 ug/L	51.029 ppb	08:55:39
3	V 292.402†	-680.5	659.3	4.5363 ug/L	4.5363 ppb	08:55:39
3	Zn 213.857†	1700.0	830.9	7.4573 ug/L	7.4573 ppb	08:55:59
3	SiO2†	3436.2	3235.3	211.53 ug/L	211.53 ppb	08:56:15

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813832.5	93.300 %	0.3729			0.40%
Sc Radial	4910.5	92.5 %	1.66			1.79%
Y 371.029	683381.6	93.169 %	0.2995			0.32%
Y RADIAL	5255.3	92.65 %	1.893			2.04%
Ag 328.068†	1384.1	6.1644 ug/L	0.27474	6.1644 ppb	0.27474	4.46%
QC value within limits for Ag 328.068 Recovery = 123.29%						
Al 396.153Radial†	276.4	201.00 ug/L	11.234	201.00 ppb	11.234	5.59%
QC value within limits for Al 396.153Radial Recovery = 100.50%						
As 188.979†	72.7	29.572 ug/L	0.8142	29.572 ppb	0.8142	2.75%
QC value within limits for As 188.979 Recovery = 98.57%						
B 249.677†	2379.0	51.834 ug/L	0.2915	51.834 ppb	0.2915	0.56%
QC value within limits for B 249.677 Recovery = 103.67%						
Ba 233.527†	683.1	5.1489 ug/L	0.05018	5.1489 ppb	0.05018	0.97%
QC value within limits for Ba 233.527 Recovery = 102.98%						
Be 313.107†	13316.3	4.7400 ug/L	0.00839	4.7400 ppb	0.00839	0.18%
QC value within limits for Be 313.107 Recovery = 94.80%						
Ca 317.933Radial†	129.2	196.31 ug/L	3.167	196.31 ppb	3.167	1.61%

QC value within limits for Ca 317.933 Radial Recovery = 98.16%							
Cd	226.502†	464.6	4.9223 ug/L	0.03351	4.9223 ppb	0.03351	0.68%
QC value within limits for Cd 226.502 Recovery = 98.45%							
Co	228.616†	248.7	4.8916 ug/L	0.09710	4.8916 ppb	0.09710	1.99%
QC value within limits for Co 228.616 Recovery = 97.83%							
Cr	267.716†	458.7	4.8886 ug/L	0.19306	4.8886 ppb	0.19306	3.95%
QC value within limits for Cr 267.716 Recovery = 97.77%							
Cu	324.752†	3750.2	10.855 ug/L	0.1409	10.855 ppb	0.1409	1.30%
QC value within limits for Cu 324.752 Recovery = 108.55%							
Fe	238.204 Radial†	13.1	107.85 ug/L	19.772	107.85 ppb	19.772	18.33%
QC value within limits for Fe 238.204 Radial Recovery = 107.85%							
K	766.490 Radial†	1190.1	215.39 ug/L	18.942	215.39 ppb	18.942	8.79%
QC value greater than the upper limit for K 766.490 Radial Recovery = 143.59%							
Mg	279.077 IEC†	7.9	246.54 ug/L	66.921	246.54 ppb	66.921	27.14%
QC value within limits for Mg 279.077 IEC Recovery = 82.18%							
Mn	257.610†	9660.3	10.222 ug/L	0.0146	10.222 ppb	0.0146	0.14%
QC value within limits for Mn 257.610 Recovery = 102.22%							
Mo	202.031†	154.2	10.421 ug/L	0.4597	10.421 ppb	0.4597	4.41%
QC value within limits for Mo 202.031 Recovery = 104.21%							
Na	589.592 Radial†	926.5	270.00 ug/L	12.818	270.00 ppb	12.818	4.75%
QC value within limits for Na 589.592 Radial Recovery = 90.00%							
Ni	231.604†	204.1	4.8543 ug/L	0.06510	4.8543 ppb	0.06510	1.34%
QC value within limits for Ni 231.604 Recovery = 97.09%							
P	214.914†	269.0	152.76 ug/L	6.446	152.76 ppb	6.446	4.22%
QC value within limits for P 214.914 Recovery = 101.84%							
Pb	220.353†	92.2	10.816 ug/L	1.4406	10.816 ppb	1.4406	13.32%
QC value within limits for Pb 220.353 Recovery = 108.16%							
S	181.975 Axial†	77.9	103.83 ug/L	11.093	103.83 ppb	11.093	10.68%
QC value within limits for S 181.975 Axial Recovery = 103.83%							
Sb	206.836†	42.6	14.463 ug/L	2.4546	14.463 ppb	2.4546	16.97%
QC value greater than the upper limit for Sb 206.836 Recovery = 144.63%							
Se	196.026†	45.7	28.209 ug/L	1.8225	28.209 ppb	1.8225	6.46%
QC value within limits for Se 196.026 Recovery = 94.03%							
Si	251.611†	3283.2	100.39 ug/L	0.930	100.39 ppb	0.930	0.93%
QC value within limits for Si 251.611 Recovery = 100.39%							
Sn	189.927†	66.4	11.170 ug/L	0.3903	11.170 ppb	0.3903	3.49%
QC value within limits for Sn 189.927 Recovery = 111.70%							
Sr	421.552†	770.9	4.8681 ug/L	0.18732	4.8681 ppb	0.18732	3.85%
QC value within limits for Sr 421.552 Recovery = 97.36%							
Ti	334.940†	3106.8	4.8052 ug/L	0.08008	4.8052 ppb	0.08008	1.67%
QC value within limits for Ti 334.940 Recovery = 96.10%							
Tl	190.801†	69.3	20.234 ug/L	2.4125	20.234 ppb	2.4125	11.92%
QC value within limits for Tl 190.801 Recovery = 101.17%							
U	409.014†	1807.3	51.333 ug/L	0.7213	51.333 ppb	0.7213	1.41%
QC value within limits for U 409.014 Recovery = 102.67%							
V	292.402†	607.5	4.1978 ug/L	0.29424	4.1978 ppb	0.29424	7.01%
QC value within limits for V 292.402 Recovery = 83.96%							
Zn	213.857†	820.5	7.3619 ug/L	0.09215	7.3619 ppb	0.09215	1.25%
QC value within limits for Zn 213.857 Recovery = 73.62%							
SiO2†		3288.0	214.97 ug/L	4.089	214.97 ppb	4.089	1.90%
QC value within limits for SiO2 Recovery = 100.93%							
QC Failed. Continue with analysis.							

Sequence No.: 13
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/14/2010 08:58:25
 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	4838.1	4838.1	91.1 %		09:00:17
1	Y RADIAL	5192.4	5192.4	91.54 %		09:00:17
1	Al 396.153Radial†	-15.1	0.2	0.1241 ug/L	0.1241 ppb	09:00:17
1	Ca 317.933Radial†	15.3	-4.7	-7.1642 ug/L	-7.1642 ppb	09:00:37
1	Fe 238.204 Radial†	10.1	0.9	7.6598 ug/L	7.6598 ppb	09:00:37
1	K 766.490 Radial†	2764.6	385.9	69.913 ug/L	69.913 ppb	09:00:17
1	Mg 279.077 IEC†	2.0	-1.1	-33.433 ug/L	-33.433 ppb	09:00:37
1	Na 589.592 Radial†	-1552.9	-87.6	-25.515 ug/L	-25.515 ppb	09:00:17
1	Sr 421.552†	8.0	-7.0	-0.0440 ug/L	-0.0440 ppb	09:00:17
1	Sc 361.383	818083.4	818083.4	93.787 %		09:01:34
1	Y 371.029	687723.8	687723.8	93.761 %		09:01:34
1	Ag 328.068†	285.4	-75.0	-0.3272 ug/L	-0.3272 ppb	09:01:34
1	As 188.979†	-21.5	0.5	0.2128 ug/L	0.2128 ppb	09:01:54
1	B 249.677†	-417.7	191.4	4.1708 ug/L	4.1708 ppb	09:01:54
1	Ba 233.527†	1.2	10.2	0.0757 ug/L	0.0757 ppb	09:01:54
1	Be 313.107†	-4334.4	-297.1	-0.1061 ug/L	-0.1061 ppb	09:01:34
1	Cd 226.502†	-184.7	5.7	0.0578 ug/L	0.0578 ppb	09:01:54
1	Co 228.616†	-76.2	-2.9	-0.0555 ug/L	-0.0555 ppb	09:01:54
1	Cr 267.716†	64.3	-4.6	-0.0473 ug/L	-0.0473 ppb	09:01:54
1	Cu 324.752†	6350.2	224.9	0.6564 ug/L	0.6564 ppb	09:01:34
1	Mn 257.610†	432.6	-19.1	-0.0181 ug/L	-0.0181 ppb	09:01:54
1	Mo 202.031†	21.1	2.0	0.1349 ug/L	0.1349 ppb	09:01:54
1	Ni 231.604†	65.9	-24.0	-0.5704 ug/L	-0.5704 ppb	09:01:54
1	P 214.914†	227.8	31.3	17.913 ug/L	17.913 ppb	09:01:54
1	Pb 220.353†	-61.9	1.3	0.1527 ug/L	0.1527 ppb	09:01:54
1	S 181.975 Axial†	37.7	-4.3	-5.7415 ug/L	-5.7415 ppb	09:01:54
1	Sb 206.836†	39.5	12.9	4.2797 ug/L	4.2797 ppb	09:01:54
1	Se 196.026†	-23.5	-0.9	-0.5319 ug/L	-0.5319 ppb	09:01:54
1	Si 251.611†	429.3	14.3	0.4349 ug/L	0.4349 ppb	09:01:54
1	Sn 189.927†	5.5	5.1	0.8606 ug/L	0.8606 ppb	09:01:54
1	Ti 334.940†	-1432.6	-177.1	-0.2702 ug/L	-0.2702 ppb	09:01:34
1	Tl 190.801†	-23.3	14.7	4.2726 ug/L	4.2726 ppb	09:01:54
1	U 409.014†	-2170.6	-237.0	-6.7363 ug/L	-6.7363 ppb	09:01:34
1	V 292.402†	-1363.1	-62.5	-0.4206 ug/L	-0.4206 ppb	09:01:34
1	Zn 213.857†	949.2	15.3	0.1404 ug/L	0.1404 ppb	09:01:54
1	SiO2†	467.0	39.1	2.5545 ug/L	2.5545 ppb	09:02:50
2	Sc Radial	4945.6	4945.6	93.1 %		09:00:42
2	Y RADIAL	5272.5	5272.5	92.95 %		09:00:42
2	Al 396.153Radial†	7.0	24.2	17.699 ug/L	17.699 ppb	09:00:42
2	Ca 317.933Radial†	14.0	-6.6	-9.9727 ug/L	-9.9727 ppb	09:01:02
2	Fe 238.204 Radial†	10.9	1.5	12.528 ug/L	12.528 ppb	09:01:02
2	K 766.490 Radial†	2701.9	252.5	45.756 ug/L	45.756 ppb	09:00:42
2	Mg 279.077 IEC†	2.6	-0.4	-11.889 ug/L	-11.889 ppb	09:01:02
2	Na 589.592 Radial†	-1603.0	-104.2	-30.375 ug/L	-30.375 ppb	09:00:42
2	Sr 421.552†	13.4	-1.3	-0.0080 ug/L	-0.0080 ppb	09:00:42
2	Sc 361.383	815284.2	815284.2	93.466 %		09:01:59
2	Y 371.029	684483.9	684483.9	93.319 %		09:01:59
2	Ag 328.068†	364.3	10.5	0.0512 ug/L	0.0512 ppb	09:01:59
2	As 188.979†	-20.7	1.2	0.5082 ug/L	0.5082 ppb	09:02:19
2	B 249.677†	-431.3	175.3	3.8200 ug/L	3.8200 ppb	09:02:19
2	Ba 233.527†	-0.2	8.6	0.0626 ug/L	0.0626 ppb	09:02:19
2	Be 313.107†	-4390.3	-372.7	-0.1327 ug/L	-0.1327 ppb	09:01:59
2	Cd 226.502†	-179.8	10.3	0.1062 ug/L	0.1062 ppb	09:02:19
2	Co 228.616†	-73.4	-0.1	-0.0023 ug/L	-0.0023 ppb	09:02:19
2	Cr 267.716†	88.9	21.9	0.2354 ug/L	0.2354 ppb	09:02:19
2	Cu 324.752†	6297.8	192.1	0.5607 ug/L	0.5607 ppb	09:01:59
2	Mn 257.610†	401.7	-50.7	-0.0519 ug/L	-0.0519 ppb	09:02:19
2	Mo 202.031†	12.2	-7.5	-0.5048 ug/L	-0.5048 ppb	09:02:19
2	Ni 231.604†	85.2	-3.1	-0.0729 ug/L	-0.0729 ppb	09:02:19

2	P 214.914†	214.9	18.5	10.518 ug/L	10.518 ppb	09:02:19
2	Pb 220.353†	-78.1	-16.2	-1.8926 ug/L	-1.8926 ppb	09:02:19
2	S 181.975 Axial†	51.0	10.0	13.325 ug/L	13.325 ppb	09:02:19
2	Sb 206.836†	30.6	3.5	1.1735 ug/L	1.1735 ppb	09:02:19
2	Se 196.026†	-34.5	-12.8	-7.7612 ug/L	-7.7612 ppb	09:02:19
2	Si 251.611†	443.2	30.7	0.9467 ug/L	0.9467 ppb	09:02:19
2	Sn 189.927†	7.1	6.9	1.1532 ug/L	1.1532 ppb	09:02:19
2	Ti 334.940†	-1335.5	-78.5	-0.1200 ug/L	-0.1200 ppb	09:01:59
2	Tl 190.801†	-32.5	4.7	1.3675 ug/L	1.3675 ppb	09:02:19
2	U 409.014†	-2114.5	-184.9	-5.2573 ug/L	-5.2573 ppb	09:01:59
2	V 292.402†	-1445.8	-155.9	-1.0383 ug/L	-1.0383 ppb	09:01:59
2	Zn 213.857†	948.0	17.5	0.1568 ug/L	0.1568 ppb	09:02:19
2	SiO2†	467.2	40.9	2.6935 ug/L	2.6935 ppb	09:02:55
3	Sc Radial	4955.2	4955.2	93.3 %		09:01:07
3	Y RADIAL	5300.2	5300.2	93.44 %		09:01:07
3	Al 396.153Radial†	2.4	19.3	14.054 ug/L	14.054 ppb	09:01:07
3	Ca 317.933Radial†	17.2	-3.1	-4.7175 ug/L	-4.7175 ppb	09:01:27
3	Fe 238.204 Radial†	8.0	-1.6	-13.129 ug/L	-13.129 ppb	09:01:27
3	K 766.490 Radial†	2723.8	270.4	48.989 ug/L	48.989 ppb	09:01:07
3	Mg 279.077 IEC†	-0.4	-3.6	-112.43 ug/L	-112.43 ppb	09:01:27
3	Na 589.592 Radial†	-1605.5	-103.6	-30.192 ug/L	-30.192 ppb	09:01:07
3	Sr 421.552†	-11.5	-28.0	-0.1769 ug/L	-0.1769 ppb	09:01:07
3	Sc 361.383	807864.0	807864.0	92.616 %		09:02:24
3	Y 371.029	678464.9	678464.9	92.498 %		09:02:24
3	Ag 328.068†	311.6	-42.8	-0.1925 ug/L	-0.1925 ppb	09:02:24
3	As 188.979†	-20.3	1.5	0.6070 ug/L	0.6070 ppb	09:02:44
3	B 249.677†	-422.6	180.5	3.9372 ug/L	3.9372 ppb	09:02:44
3	Ba 233.527†	-6.2	2.2	0.0158 ug/L	0.0158 ppb	09:02:44
3	Be 313.107†	-4298.9	-317.2	-0.1134 ug/L	-0.1134 ppb	09:02:24
3	Cd 226.502†	-199.2	-12.4	-0.1306 ug/L	-0.1306 ppb	09:02:44
3	Co 228.616†	-66.2	6.9	0.1369 ug/L	0.1369 ppb	09:02:44
3	Cr 267.716†	72.2	4.7	0.0512 ug/L	0.0512 ppb	09:02:44
3	Cu 324.752†	6269.2	223.1	0.6480 ug/L	0.6480 ppb	09:02:24
3	Mn 257.610†	406.7	-41.3	-0.0403 ug/L	-0.0403 ppb	09:02:44
3	Mo 202.031†	18.9	-0.1	-0.0110 ug/L	-0.0110 ppb	09:02:44
3	Ni 231.604†	95.5	8.9	0.2123 ug/L	0.2123 ppb	09:02:44
3	P 214.914†	210.6	15.9	9.0189 ug/L	9.0189 ppb	09:02:44
3	Pb 220.353†	-74.2	-12.7	-1.4812 ug/L	-1.4812 ppb	09:02:44
3	S 181.975 Axial†	53.4	13.2	17.543 ug/L	17.543 ppb	09:02:44
3	Sb 206.836†	40.7	14.7	4.8687 ug/L	4.8687 ppb	09:02:44
3	Se 196.026†	-37.7	-16.6	-10.154 ug/L	-10.154 ppb	09:02:44
3	Si 251.611†	439.9	31.6	0.9667 ug/L	0.9667 ppb	09:02:44
3	Sn 189.927†	5.9	5.6	0.9442 ug/L	0.9442 ppb	09:02:44
3	Ti 334.940†	-1448.8	-214.0	-0.3224 ug/L	-0.3224 ppb	09:02:24
3	Tl 190.801†	-31.5	5.4	1.5741 ug/L	1.5741 ppb	09:02:44
3	U 409.014†	-2021.8	-105.6	-2.9980 ug/L	-2.9980 ppb	09:02:24
3	V 292.402†	-1303.3	-16.3	-0.1122 ug/L	-0.1122 ppb	09:02:24
3	Zn 213.857†	951.0	30.1	0.2713 ug/L	0.2713 ppb	09:02:44
3	SiO2†	419.9	-5.5	-0.3584 ug/L	-0.3584 ppb	09:03:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813743.9	93.290 %	0.6054			0.65%
Sc Radial	4913.0	92.5 %	1.22			1.32%
Y 371.029	683557.5	93.193 %	0.6406			0.69%
Y RADIAL	5255.0	92.64 %	0.987			1.06%
Ag 328.068†	-35.7	-0.1562 ug/L	0.19179	-0.1562 ppb	0.19179	122.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.6	10.626 ug/L	9.2757	10.626 ppb	9.2757	87.29%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.1	0.4427 ug/L	0.20510	0.4427 ppb	0.20510	46.33%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	182.4	3.9760 ug/L	0.17859	3.9760 ppb	0.17859	4.49%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.0	0.0514 ug/L	0.03149	0.0514 ppb	0.03149	61.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-329.0	-0.1174 ug/L	0.01370	-0.1174 ppb	0.01370	11.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-4.8	-7.2848 ug/L	2.62964	-7.2848 ppb	2.62964	36.10%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd	226.502†	1.2	0.0111 ug/L	0.12512	0.0111 ppb	0.12512 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co	228.616†	1.3	0.0264 ug/L	0.09936	0.0264 ppb	0.09936 376.72%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	7.3	0.0797 ug/L	0.14349	0.0797 ppb	0.14349 179.95%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	213.3	0.6217 ug/L	0.05303	0.6217 ppb	0.05303 8.53%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	0.3	2.3529 ug/L	13.62677	2.3529 ppb	13.62677 579.15%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	302.9	54.886 ug/L	13.1138	54.886 ppb	13.1138 23.89%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	-1.7	-52.583 ug/L	52.9341	-52.583 ppb	52.9341 100.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	-37.0	-0.0368 ug/L	0.01718	-0.0368 ppb	0.01718 46.71%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	-1.9	-0.1270 ug/L	0.33527	-0.1270 ppb	0.33527 264.05%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	-98.5	-28.694 ug/L	2.7548	-28.694 ppb	2.7548 9.60%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	-6.0	-0.1437 ug/L	0.39615	-0.1437 ppb	0.39615 275.71%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	21.9	12.483 ug/L	4.7614	12.483 ppb	4.7614 38.14%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	-9.2	-1.0737 ug/L	1.08186	-1.0737 ppb	1.08186 100.76%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	6.3	8.3756 ug/L	12.40633	8.3756 ppb	12.40633 148.12%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	10.4	3.4407 ug/L	1.98536	3.4407 ppb	1.98536 57.70%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-10.1	-6.1489 ug/L	5.00936	-6.1489 ppb	5.00936 81.47%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si	251.611†	25.5	0.7828 ug/L	0.30142	0.7828 ppb	0.30142 38.51%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	5.9	0.9860 ug/L	0.15073	0.9860 ppb	0.15073 15.29%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	-12.1	-0.0763 ug/L	0.08897	-0.0763 ppb	0.08897 116.63%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	-156.5	-0.2375 ug/L	0.10510	-0.2375 ppb	0.10510 44.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	8.3	2.4047 ug/L	1.62092	2.4047 ppb	1.62092 67.41%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	-175.8	-4.9972 ug/L	1.88267	-4.9972 ppb	1.88267 37.67%
QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	-78.2	-0.5237 ug/L	0.47159	-0.5237 ppb	0.47159 90.05%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	21.0	0.1895 ug/L	0.07132	0.1895 ppb	0.07132 37.64%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†		24.8	1.6298 ug/L	1.72328	1.6298 ppb	1.72328 105.73%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 1/14/2010 09:05:39

Plasma On Time: 1/11/2010 06:15:31

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\011310B.sif

Batch ID:

Results Data Set: 011310

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 38

Sample ID: 243626001|937483|5

Date Collected: 1/14/2010 09:05:39

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 243626001|937483|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc Radial	4895.1	4895.1	92.2 %			09:07:31
1	Y RADIAL	5311.4	5311.4	93.64 %			09:07:31
1	Al 396.153Radial†	37120.3	40285.6	29372 ug/L		29372 ppb	09:07:31
1	Ca 317.933Radial†	2659.9	2863.9	4352.4 ug/L		4352.4 ppb	09:07:51
1	Fe 238.204 Radial†	3496.9	3783.4	31192 ug/L		31192 ppb	09:07:31
1	K 766.490 Radial†	24920.5	24385.7	4414.2 ug/L		4414.2 ppb	09:07:31
1	Mg 279.077 IEC†	133.1	141.2	4381.7 ug/L		4381.7 ppb	09:07:51
1	Na 589.592 Radial†	-938.4	599.0	174.56 ug/L		174.56 ppb	09:07:31
1	Sr 421.552†	8608.9	9323.4	58.865 ug/L		58.865 ppb	09:07:31
1	Sc 361.383	827976.5	827976.5	94.921 %			09:08:48
1	Y 371.029	700371.9	700371.9	95.485 %			09:08:48
1	Ag 328.068†	-1577.4	-2041.0	1.2844 ug/L		1.2844 ppb	09:08:54
1	As 188.979†	-37.9	-16.5	11.839 ug/L		11.839 ppb	09:09:14
1	B 249.677†	-76.3	556.4	6.9425 ug/L		6.9425 ppb	09:08:54
1	Ba 233.527†	92239.0	97183.0	731.95 ug/L		731.95 ppb	09:08:54
1	Be 313.107†	-5682.8	-1662.4	2.3505 ug/L		2.3505 ppb	09:08:54
1	Cd 226.502†	127.7	337.2	0.3774 ug/L		0.3774 ppb	09:09:14
1	Co 228.616†	2011.8	2197.8	40.256 ug/L		40.256 ppb	09:09:14
1	Cr 267.716†	10586.7	11079.9	119.13 ug/L		119.13 ppb	09:08:54
1	Cu 324.752†	10527.2	4544.5	14.867 ug/L		14.867 ppb	09:08:54
1	Mn 257.610†	3383632.1	3564188.3	3774.2 ug/L		3774.2 ppb	09:08:48
1	Mo 202.031†	24.9	5.6	2.8535 ug/L		2.8535 ppb	09:09:14
1	Ni 231.604†	2627.5	2673.9	63.622 ug/L		63.622 ppb	09:09:14
1	P 214.914†	590.5	410.5	215.86 ug/L		215.86 ppb	09:09:14
1	Pb 220.353†	206.6	285.0	36.606 ug/L		36.606 ppb	09:09:14
1	S 181.975 Axial†	153.4	117.1	150.59 ug/L		150.59 ppb	09:09:14
1	Sb 206.836†	51.9	25.4	4.2817 ug/L		4.2817 ppb	09:09:14
1	Se 196.026†	-172.0	-157.0	8.1216 ug/L		8.1216 ppb	09:09:14
1	Si 251.611†	180719.3	189945.0	5815.4 ug/L		5815.4 ppb	09:08:54
1	Sn 189.927†	-29.2	-31.5	-4.0927 ug/L		-4.0927 ppb	09:09:14
1	Ti 334.940†	790721.6	834378.5	1295.6 ug/L		1295.6 ppb	09:08:48
1	Tl 190.801†	-127.5	-94.8	0.8358 ug/L		0.8358 ppb	09:09:14
1	U 409.014†	-4043.8	-2182.8	-65.847 ug/L		-65.847 ppb	09:08:54
1	V 292.402†	8461.4	10305.0	61.361 ug/L		61.361 ppb	09:08:54
1	Zn 213.857†	6947.4	6322.3	53.710 ug/L		53.710 ppb	09:09:14
1	SiO2†	182305.2	191600.3	12544 ug/L		12544 ppb	09:10:21
2	Sc Radial	4902.1	4902.1	92.3 %			09:07:56
2	Y RADIAL	5316.1	5316.1	93.72 %			09:07:56
2	Al 396.153Radial†	36545.4	39605.8	28877 ug/L		28877 ppb	09:07:56
2	Ca 317.933Radial†	2633.7	2831.5	4303.2 ug/L		4303.2 ppb	09:08:16
2	Fe 238.204 Radial†	3425.0	3700.1	30506 ug/L		30506 ppb	09:07:56
2	K 766.490 Radial†	24423.9	23809.4	4309.9 ug/L		4309.9 ppb	09:07:56
2	Mg 279.077 IEC†	133.9	141.9	4403.5 ug/L		4403.5 ppb	09:08:16
2	Na 589.592 Radial†	-1050.1	479.4	139.70 ug/L		139.70 ppb	09:07:56
2	Sr 421.552†	8463.4	9152.6	57.786 ug/L		57.786 ppb	09:07:56
2	Sc 361.383	830094.6	830094.6	95.164 %			09:09:19
2	Y 371.029	703910.7	703910.7	95.967 %			09:09:19

2	Ag 328.068†	-1541.1	-1998.7	1.2571 ug/L	1.2571 ppb	09:09:25
2	As 188.979†	-35.5	-13.9	12.700 ug/L	12.700 ppb	09:09:45
2	B 249.677†	-81.3	551.4	6.9443 ug/L	6.9443 ppb	09:09:25
2	Ba 233.527†	93373.2	98126.9	739.03 ug/L	739.03 ppb	09:09:25
2	Be 313.107†	-5823.0	-1794.4	2.2940 ug/L	2.2940 ppb	09:09:25
2	Cd 226.502†	123.1	331.9	0.3912 ug/L	0.3912 ppb	09:09:45
2	Co 228.616†	2013.5	2194.3	40.207 ug/L	40.207 ppb	09:09:45
2	Cr 267.716†	10671.8	11140.9	119.77 ug/L	119.77 ppb	09:09:25
2	Cu 324.752†	10617.8	4611.4	15.028 ug/L	15.028 ppb	09:09:25
2	Mn 257.610†	3378806.8	3550022.0	3759.1 ug/L	3759.1 ppb	09:09:19
2	Mo 202.031†	21.8	2.3	2.5762 ug/L	2.5762 ppb	09:09:45
2	Ni 231.604†	2622.4	2661.5	63.327 ug/L	63.327 ppb	09:09:45
2	P 214.914†	569.4	386.8	202.57 ug/L	202.57 ppb	09:09:45
2	Pb 220.353†	216.5	294.9	37.722 ug/L	37.722 ppb	09:09:45
2	S 181.975 Axial†	145.7	108.6	139.36 ug/L	139.36 ppb	09:09:45
2	Sb 206.836†	47.7	20.9	2.7938 ug/L	2.7938 ppb	09:09:45
2	Se 196.026†	-169.4	-153.8	7.8032 ug/L	7.8032 ppb	09:09:45
2	Si 251.611†	182925.6	191777.6	5871.5 ug/L	5871.5 ppb	09:09:25
2	Sn 189.927†	-30.5	-32.8	-4.3419 ug/L	-4.3419 ppb	09:09:45
2	Ti 334.940†	790153.2	831655.5	1291.4 ug/L	1291.4 ppb	09:09:19
2	Tl 190.801†	-142.8	-110.5	-3.8471 ug/L	-3.8471 ppb	09:09:45
2	U 409.014†	-4277.3	-2417.3	-72.433 ug/L	-72.433 ppb	09:09:25
2	V 292.402†	8504.2	10327.3	61.596 ug/L	61.596 ppb	09:09:25
2	Zn 213.857†	6942.3	6298.4	53.561 ug/L	53.561 ppb	09:09:45
2	SiO2†	181025.7	189765.7	12423 ug/L	12423 ppb	09:10:26
3	Sc Radial	4931.0	4931.0	92.9 %		09:08:21
3	Y RADIAL	5357.8	5357.8	94.45 %		09:08:21
3	Al 396.153Radial†	37047.6	39914.4	29102 ug/L	29102 ppb	09:08:21
3	Ca 317.933Radial†	2612.9	2792.3	4243.6 ug/L	4243.6 ppb	09:08:41
3	Fe 238.204 Radial†	3487.2	3745.3	30878 ug/L	30878 ppb	09:08:21
3	K 766.490 Radial†	24784.0	24042.0	4352.0 ug/L	4352.0 ppb	09:08:21
3	Mg 279.077 IEC†	130.6	137.5	4264.6 ug/L	4264.6 ppb	09:08:41
3	Na 589.592 Radial†	-949.9	594.0	173.12 ug/L	173.12 ppb	09:08:21
3	Sr 421.552†	8567.4	9210.8	58.155 ug/L	58.155 ppb	09:08:21
3	Sc 361.383	820318.6	820318.6	94.043 %		09:09:50
3	Y 371.029	696478.7	696478.7	94.954 %		09:09:50
3	Ag 328.068†	-1451.4	-1922.5	1.7114 ug/L	1.7114 ppb	09:09:56
3	As 188.979†	-42.1	-21.3	9.7792 ug/L	9.7792 ppb	09:10:16
3	B 249.677†	-36.8	597.7	7.8908 ug/L	7.8908 ppb	09:09:56
3	Ba 233.527†	92947.2	98843.1	744.42 ug/L	744.42 ppb	09:09:56
3	Be 313.107†	-5862.8	-1909.7	2.2580 ug/L	2.2580 ppb	09:09:56
3	Cd 226.502†	97.2	306.0	0.0811 ug/L	0.0811 ppb	09:10:16
3	Co 228.616†	2028.0	2234.8	40.995 ug/L	40.995 ppb	09:10:16
3	Cr 267.716†	10611.2	11210.1	120.51 ug/L	120.51 ppb	09:09:56
3	Cu 324.752†	10468.7	4585.7	14.969 ug/L	14.969 ppb	09:09:56
3	Mn 257.610†	3344950.9	3556334.2	3765.9 ug/L	3765.9 ppb	09:09:50
3	Mo 202.031†	20.8	1.6	2.5524 ug/L	2.5524 ppb	09:10:16
3	Ni 231.604†	2678.5	2753.9	65.527 ug/L	65.527 ppb	09:10:16
3	P 214.914†	596.8	423.1	223.24 ug/L	223.24 ppb	09:10:16
3	Pb 220.353†	217.6	298.7	38.177 ug/L	38.177 ppb	09:10:16
3	S 181.975 Axial†	148.8	113.7	146.10 ug/L	146.10 ppb	09:10:16
3	Sb 206.836†	51.6	25.7	4.3782 ug/L	4.3782 ppb	09:10:16
3	Se 196.026†	-171.2	-157.9	6.5715 ug/L	6.5715 ppb	09:10:16
3	Si 251.611†	181496.7	192549.0	5895.1 ug/L	5895.1 ppb	09:09:56
3	Sn 189.927†	-23.6	-25.9	-3.1780 ug/L	-3.1780 ppb	09:10:16
3	Ti 334.940†	782152.9	833043.6	1293.5 ug/L	1293.5 ppb	09:09:50
3	Tl 190.801†	-127.4	-96.0	0.4344 ug/L	0.4344 ppb	09:10:16
3	U 409.014†	-3961.7	-2135.2	-64.463 ug/L	-64.463 ppb	09:09:56
3	V 292.402†	8426.2	10350.9	61.705 ug/L	61.705 ppb	09:09:56
3	Zn 213.857†	6992.9	6439.1	54.784 ug/L	54.784 ppb	09:10:16
3	SiO2†	181055.6	192064.5	12574 ug/L	12574 ppb	09:10:32

Mean Data: 243626001|937483|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	826129.9	94.710 %	0.5896			0.62%
Sc Radial	4909.4	92.4 %	0.36			0.39%
Y 371.029	700253.8	95.469 %	0.5068			0.53%
Y RADIAL	5328.4	93.94 %	0.450			0.48%
Ag 328.068†	-1987.4	1.4177 ug/L	0.25477	1.4177 ppb	0.25477	17.97%

Al 396.153Radial†	39935.3	29117 ug/L	248.2	29117 ppb	248.2	0.85%
As 188.979†	-17.2	11.439 ug/L	1.5007	11.439 ppb	1.5007	13.12%
B 249.677†	568.5	7.2592 ug/L	0.54699	7.2592 ppb	0.54699	7.54%
Ba 233.527†	98051.0	738.47 ug/L	6.257	738.47 ppb	6.257	0.85%
Be 313.107†	-1788.9	2.3008 ug/L	0.04665	2.3008 ppb	0.04665	2.03%
Ca 317.933Radial†	2829.2	4299.7 ug/L	54.50	4299.7 ppb	54.50	1.27%
Cd 226.502†	325.0	0.2832 ug/L	0.17521	0.2832 ppb	0.17521	61.86%
Co 228.616†	2209.0	40.486 ug/L	0.4416	40.486 ppb	0.4416	1.09%
Cr 267.716†	11143.6	119.80 ug/L	0.693	119.80 ppb	0.693	0.58%
Cu 324.752†	4580.5	14.954 ug/L	0.0816	14.954 ppb	0.0816	0.55%
Fe 238.204 Radial†	3742.9	30859 ug/L	343.8	30859 ppb	343.8	1.11%
K 766.490 Radial†	24079.0	4358.7 ug/L	52.50	4358.7 ppb	52.50	1.20%
Mg 279.077 IEC†	140.2	4349.9 ug/L	74.67	4349.9 ppb	74.67	1.72%
Mn 257.610†	3556848.1	3766.4 ug/L	7.54	3766.4 ppb	7.54	0.20%
Mo 202.031†	3.2	2.6607 ug/L	0.16741	2.6607 ppb	0.16741	6.29%
Na 589.592 Radial†	557.5	162.46 ug/L	19.722	162.46 ppb	19.722	12.14%
Ni 231.604†	2696.4	64.159 ug/L	1.1944	64.159 ppb	1.1944	1.86%
P 214.914†	406.8	213.89 ug/L	10.472	213.89 ppb	10.472	4.90%
Pb 220.353†	292.8	37.502 ug/L	0.8082	37.502 ppb	0.8082	2.16%
S 181.975 Axial†	113.1	145.35 ug/L	5.656	145.35 ppb	5.656	3.89%
Sb 206.836†	24.0	3.8179 ug/L	0.88819	3.8179 ppb	0.88819	23.26%
Se 196.026†	-156.3	7.4988 ug/L	0.81866	7.4988 ppb	0.81866	10.92%
Si 251.611†	191423.9	5860.7 ug/L	40.95	5860.7 ppb	40.95	0.70%
Sn 189.927†	-30.1	-3.8709 ug/L	0.61286	-3.8709 ppb	0.61286	15.83%
Sr 421.552†	9228.9	58.269 ug/L	0.5482	58.269 ppb	0.5482	0.94%
Ti 334.940†	833025.9	1293.5 ug/L	2.12	1293.5 ppb	2.12	0.16%
Tl 190.801†	-100.5	-0.8589 ug/L	2.59556	-0.8589 ppb	2.59556	302.18%
U 409.014†	-2245.1	-67.581 ug/L	4.2585	-67.581 ppb	4.2585	6.30%
V 292.402†	10327.7	61.554 ug/L	0.1754	61.554 ppb	0.1754	0.28%
Zn 213.857†	6353.3	54.018 ug/L	0.6671	54.018 ppb	0.6671	1.24%
SiO2†	191143.5	12514 ug/L	79.6	12514 ppb	79.6	0.64%

Sequence No.: 2
 Sample ID: 1202006032|937483|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 39
 Date Collected: 1/14/2010 09:12:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202006032|937483|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4854.2	4854.2	91.4 %		09:14:35
1	Y RADIAL	5295.9	5295.9	93.36 %		09:14:35
1	Al 396.153Radial†	34274.7	37512.0	27350 ug/L	27350 ppb	09:14:35
1	Ca 317.933Radial†	2507.8	2721.9	4136.6 ug/L	4136.6 ppb	09:14:55
1	Fe 238.204 Radial†	3054.7	3331.6	27467 ug/L	27467 ppb	09:14:55
1	K 766.490 Radial†	23038.8	22555.0	4083.9 ug/L	4083.9 ppb	09:14:35
1	Mg 279.077 IEC†	121.4	129.6	4021.8 ug/L	4021.8 ppb	09:14:55
1	Na 589.592 Radial†	-980.2	544.6	158.72 ug/L	158.72 ppb	09:14:35
1	Sr 421.552†	7669.4	8374.4	52.871 ug/L	52.871 ppb	09:14:35
1	Sc 361.383	818198.6	818198.6	93.800 %		09:15:52
1	Y 371.029	692769.9	692769.9	94.449 %		09:15:52
1	Ag 328.068†	-1408.6	-1880.9	0.7330 ug/L	0.7330 ppb	09:15:57
1	As 188.979†	-44.6	-24.1	7.8512 ug/L	7.8512 ppb	09:16:17
1	B 249.677†	-224.8	397.1	4.1502 ug/L	4.1502 ppb	09:15:57
1	Ba 233.527†	48264.6	51463.4	387.99 ug/L	387.99 ppb	09:15:57
1	Be 313.107†	-6506.7	-2612.3	2.0056 ug/L	2.0056 ppb	09:15:57
1	Cd 226.502†	67.7	274.8	0.0944 ug/L	0.0944 ppb	09:16:17
1	Co 228.616†	704.2	829.1	13.311 ug/L	13.311 ppb	09:16:17
1	Cr 267.716†	7449.9	7869.1	84.718 ug/L	84.718 ppb	09:15:57
1	Cu 324.752†	10123.0	4246.1	13.789 ug/L	13.789 ppb	09:15:57
1	Mn 257.610†	767135.9	817358.3	867.40 ug/L	867.40 ppb	09:15:52
1	Mo 202.031†	11.1	-8.8	1.5903 ug/L	1.5903 ppb	09:16:17
1	Ni 231.604†	1837.8	1865.1	44.387 ug/L	44.387 ppb	09:16:17
1	P 214.914†	498.7	320.1	166.47 ug/L	166.47 ppb	09:16:17
1	Pb 220.353†	131.1	207.1	27.445 ug/L	27.445 ppb	09:16:17
1	S 181.975 Axial†	133.0	97.2	124.49 ug/L	124.49 ppb	09:16:17
1	Sb 206.836†	47.5	21.4	2.8485 ug/L	2.8485 ppb	09:16:17
1	Se 196.026†	-155.9	-142.1	4.8994 ug/L	4.8994 ppb	09:16:17
1	Si 251.611†	179182.0	190581.3	5834.9 ug/L	5834.9 ppb	09:15:52
1	Sn 189.927†	-33.5	-36.5	-5.0348 ug/L	-5.0348 ppb	09:16:17
1	Ti 334.940†	779372.9	832234.8	1292.3 ug/L	1292.3 ppb	09:15:52
1	Tl 190.801†	-94.0	-60.7	-3.0014 ug/L	-3.0014 ppb	09:16:17
1	U 409.014†	-3122.0	-1250.9	-38.865 ug/L	-38.865 ppb	09:15:52
1	V 292.402†	6986.2	8838.9	52.368 ug/L	52.368 ppb	09:15:57
1	Zn 213.857†	6302.6	5722.4	48.771 ug/L	48.771 ppb	09:15:57
1	SiO2†	178139.8	189454.7	12403 ug/L	12403 ppb	09:17:24
2	Sc Radial	4874.4	4874.4	91.8 %		09:15:00
2	Y RADIAL	5324.2	5324.2	93.86 %		09:15:00
2	Al 396.153Radial†	34464.5	37563.9	27388 ug/L	27388 ppb	09:15:00
2	Ca 317.933Radial†	2511.3	2714.4	4125.2 ug/L	4125.2 ppb	09:15:20
2	Fe 238.204 Radial†	3048.4	3310.9	27296 ug/L	27296 ppb	09:15:20
2	K 766.490 Radial†	23165.3	22588.7	4090.0 ug/L	4090.0 ppb	09:15:00
2	Mg 279.077 IEC†	118.3	125.7	3899.9 ug/L	3899.9 ppb	09:15:20
2	Na 589.592 Radial†	-974.2	555.6	161.91 ug/L	161.91 ppb	09:15:00
2	Sr 421.552†	7689.2	8361.3	52.789 ug/L	52.789 ppb	09:15:00
2	Sc 361.383	818504.7	818504.7	93.835 %		09:16:23
2	Y 371.029	695309.0	695309.0	94.795 %		09:16:23
2	Ag 328.068†	-1391.2	-1861.8	0.7623 ug/L	0.7623 ppb	09:16:28
2	As 188.979†	-43.6	-23.0	8.1946 ug/L	8.1946 ppb	09:16:48
2	B 249.677†	-191.5	432.7	4.9546 ug/L	4.9546 ppb	09:16:28
2	Ba 233.527†	48262.0	51441.4	387.82 ug/L	387.82 ppb	09:16:28
2	Be 313.107†	-6622.8	-2733.4	1.9506 ug/L	1.9506 ppb	09:16:28
2	Cd 226.502†	43.6	249.0	-0.1609 ug/L	-0.1609 ppb	09:16:48
2	Co 228.616†	692.6	816.5	13.077 ug/L	13.077 ppb	09:16:48
2	Cr 267.716†	7448.8	7864.9	84.671 ug/L	84.671 ppb	09:16:28
2	Cu 324.752†	10230.1	4356.2	14.099 ug/L	14.099 ppb	09:16:28
2	Mn 257.610†	764095.0	813811.8	863.64 ug/L	863.64 ppb	09:16:23
2	Mo 202.031†	15.2	-4.4	1.8718 ug/L	1.8718 ppb	09:16:48
2	Ni 231.604†	1831.9	1858.0	44.219 ug/L	44.219 ppb	09:16:48

2	P 214.914†	496.4	317.5	165.04 ug/L	165.04 ppb	09:16:48
2	Pb 220.353†	101.3	175.2	23.752 ug/L	23.752 ppb	09:16:48
2	S 181.975 Axial†	134.2	98.5	126.23 ug/L	126.23 ppb	09:16:48
2	Sb 206.836†	48.7	22.7	3.2916 ug/L	3.2916 ppb	09:16:48
2	Se 196.026†	-160.7	-147.1	1.3086 ug/L	1.3086 ppb	09:16:48
2	Si 251.611†	178325.6	189597.2	5804.7 ug/L	5804.7 ppb	09:16:23
2	Sn 189.927†	-38.5	-41.8	-5.9188 ug/L	-5.9188 ppb	09:16:48
2	Ti 334.940†	776459.8	828819.6	1287.0 ug/L	1287.0 ppb	09:16:23
2	Tl 190.801†	-83.5	-49.5	0.2043 ug/L	0.2043 ppb	09:16:48
2	U 409.014†	-3120.8	-1248.4	-38.773 ug/L	-38.773 ppb	09:16:23
2	V 292.402†	6968.0	8816.7	52.255 ug/L	52.255 ppb	09:16:28
2	Zn 213.857†	6286.9	5703.1	48.614 ug/L	48.614 ppb	09:16:28
2	SiO2†	180411.8	191805.0	12557 ug/L	12557 ppb	09:17:29
3	Sc Radial	4922.6	4922.6	92.7 %		09:15:25
3	Y RADIAL	5343.0	5343.0	94.19 %		09:15:25
3	Al 396.153Radial†	34698.7	37448.4	27304 ug/L	27304 ppb	09:15:25
3	Ca 317.933Radial†	2520.1	2697.1	4098.8 ug/L	4098.8 ppb	09:15:45
3	Fe 238.204 Radial†	3080.1	3312.6	27310 ug/L	27310 ppb	09:15:45
3	K 766.490 Radial†	23128.9	22302.0	4038.0 ug/L	4038.0 ppb	09:15:25
3	Mg 279.077 IEC†	120.6	126.9	3937.2 ug/L	3937.2 ppb	09:15:45
3	Na 589.592 Radial†	-993.5	545.2	158.89 ug/L	158.89 ppb	09:15:25
3	Sr 421.552†	7704.5	8295.6	52.374 ug/L	52.374 ppb	09:15:25
3	Sc 361.383	820266.4	820266.4	94.037 %		09:16:53
3	Y 371.029	696669.9	696669.9	94.980 %		09:16:53
3	Ag 328.068†	-1372.8	-1839.1	0.8655 ug/L	0.8655 ppb	09:16:58
3	As 188.979†	-37.8	-16.7	10.726 ug/L	10.726 ppb	09:17:18
3	B 249.677†	-116.3	513.1	6.7051 ug/L	6.7051 ppb	09:16:58
3	Ba 233.527†	48124.6	51184.9	385.89 ug/L	385.89 ppb	09:16:58
3	Be 313.107†	-6562.4	-2654.0	1.9727 ug/L	1.9727 ppb	09:16:58
3	Cd 226.502†	64.1	270.8	0.0679 ug/L	0.0679 ppb	09:17:18
3	Co 228.616†	685.4	807.3	12.901 ug/L	12.901 ppb	09:17:18
3	Cr 267.716†	7392.0	7787.5	83.843 ug/L	83.843 ppb	09:16:58
3	Cu 324.752†	10184.6	4284.3	13.892 ug/L	13.892 ppb	09:16:58
3	Mn 257.610†	764234.7	812211.4	861.94 ug/L	861.94 ppb	09:16:53
3	Mo 202.031†	12.5	-7.2	1.6816 ug/L	1.6816 ppb	09:17:18
3	Ni 231.604†	1819.6	1840.8	43.808 ug/L	43.808 ppb	09:17:18
3	P 214.914†	505.9	326.5	170.26 ug/L	170.26 ppb	09:17:18
3	Pb 220.353†	117.4	192.2	25.705 ug/L	25.705 ppb	09:17:18
3	S 181.975 Axial†	129.2	92.8	118.67 ug/L	118.67 ppb	09:17:18
3	Sb 206.836†	46.1	19.9	2.3817 ug/L	2.3817 ppb	09:17:18
3	Se 196.026†	-145.8	-130.9	11.196 ug/L	11.196 ppb	09:17:18
3	Si 251.611†	178156.0	189008.7	5786.7 ug/L	5786.7 ppb	09:16:53
3	Sn 189.927†	-26.2	-28.7	-3.7239 ug/L	-3.7239 ppb	09:17:18
3	Ti 334.940†	776514.9	827101.0	1284.3 ug/L	1284.3 ppb	09:16:53
3	Tl 190.801†	-91.7	-58.0	-2.3139 ug/L	-2.3139 ppb	09:17:18
3	U 409.014†	-3132.3	-1253.5	-38.918 ug/L	-38.918 ppb	09:16:53
3	V 292.402†	6885.1	8712.6	51.574 ug/L	51.574 ppb	09:16:58
3	Zn 213.857†	6243.7	5642.9	48.071 ug/L	48.071 ppb	09:16:58
3	SiO2†	177437.8	188229.6	12323 ug/L	12323 ppb	09:17:34

Mean Data: 1202006032|937483|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	818989.9	93.891 %	0.1279			0.14%
Sc Radial	4883.7	92.0 %	0.66			0.72%
Y 371.029	694916.3	94.741 %	0.2699			0.28%
Y RADIAL	5321.0	93.81 %	0.418			0.45%
Ag 328.068†	-1860.6	0.7869 ug/L	0.06962	0.7869 ppb	0.06962	8.85%
Al 396.153Radial†	37508.1	27347 ug/L	42.2	27347 ppb	42.2	0.15%
As 188.979†	-21.3	8.9240 ug/L	1.57011	8.9240 ppb	1.57011	17.59%
B 249.677†	447.6	5.2700 ug/L	1.30632	5.2700 ppb	1.30632	24.79%
Ba 233.527†	51363.2	387.23 ug/L	1.167	387.23 ppb	1.167	0.30%
Be 313.107†	-2666.6	1.9763 ug/L	0.02770	1.9763 ppb	0.02770	1.40%
Ca 317.933Radial†	2711.1	4120.2 ug/L	19.36	4120.2 ppb	19.36	0.47%
Cd 226.502†	264.9	0.0004 ug/L	0.14038	0.0004 ppb	0.14038	>999.9%
Co 228.616†	817.6	13.096 ug/L	0.2057	13.096 ppb	0.2057	1.57%
Cr 267.716†	7840.5	84.411 ug/L	0.4923	84.411 ppb	0.4923	0.58%
Cu 324.752†	4295.5	13.927 ug/L	0.1580	13.927 ppb	0.1580	1.13%
Fe 238.204 Radial†	3318.3	27358 ug/L	94.8	27358 ppb	94.8	0.35%
K 766.490 Radial†	22481.9	4070.6 ug/L	28.38	4070.6 ppb	28.38	0.70%

Mg 279.077 IEC†	127.4	3953.0 ug/L	62.48	3953.0 ppb	62.48	1.58%
Mn 257.610†	814460.5	864.33 ug/L	2.794	864.33 ppb	2.794	0.32%
Mo 202.031†	-6.8	1.7146 ug/L	0.14364	1.7146 ppb	0.14364	8.38%
Na 589.592 Radial†	548.5	159.84 ug/L	1.795	159.84 ppb	1.795	1.12%
Ni 231.604†	1854.6	44.138 ug/L	0.2975	44.138 ppb	0.2975	0.67%
P 214.914†	321.4	167.26 ug/L	2.700	167.26 ppb	2.700	1.61%
Pb 220.353†	191.5	25.634 ug/L	1.8473	25.634 ppb	1.8473	7.21%
S 181.975 Axial†	96.2	123.13 ug/L	3.958	123.13 ppb	3.958	3.21%
Sb 206.836†	21.3	2.8406 ug/L	0.45502	2.8406 ppb	0.45502	16.02%
Se 196.026†	-140.0	5.8012 ug/L	5.00477	5.8012 ppb	5.00477	86.27%
Si 251.611†	189729.1	5808.8 ug/L	24.33	5808.8 ppb	24.33	0.42%
Sn 189.927†	-35.6	-4.8925 ug/L	1.10435	-4.8925 ppb	1.10435	22.57%
Sr 421.552†	8343.8	52.678 ug/L	0.2664	52.678 ppb	0.2664	0.51%
Ti 334.940†	829385.1	1287.9 ug/L	4.06	1287.9 ppb	4.06	0.31%
Tl 190.801†	-56.1	-1.7037 ug/L	1.68770	-1.7037 ppb	1.68770	99.06%
U 409.014†	-1250.9	-38.852 ug/L	0.0730	-38.852 ppb	0.0730	0.19%
V 292.402†	8789.4	52.066 ug/L	0.4298	52.066 ppb	0.4298	0.83%
Zn 213.857†	5689.5	48.485 ug/L	0.3675	48.485 ppb	0.3675	0.76%
SiO2†	189829.8	12428 ug/L	119.0	12428 ppb	119.0	0.96%

Sequence No.: 3
 Sample ID: 1202006033|937483|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 40
 Date Collected: 1/14/2010 09:19:45
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202006033|937483|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5021.6	5021.6	94.6 %		09:21:38
1	Y RADIAL	5469.0	5469.0	96.42 %		09:21:38
1	Al 396.153Radial†	57404.7	60722.6	44269 ug/L	44269 ppb	09:21:38
1	Ca 317.933Radial†	3205.2	3367.9	5118.4 ug/L	5118.4 ppb	09:21:58
1	Fe 238.204 Radial†	3727.9	3932.1	32421 ug/L	32421 ppb	09:21:38
1	K 766.490 Radial†	33458.5	32733.9	5926.8 ug/L	5926.8 ppb	09:21:38
1	Mg 279.077 IEC†	177.3	184.3	5728.2 ug/L	5728.2 ppb	09:21:58
1	Na 589.592 Radial†	2435.5	4192.5	1221.8 ug/L	1221.8 ppb	09:21:38
1	Sr 421.552†	23393.1	24722.7	156.14 ug/L	156.14 ppb	09:21:38
1	Sc 361.383	837299.9	837299.9	95.990 %		09:22:55
1	Y 371.029	707917.1	707917.1	96.514 %		09:22:55
1	Ag 328.068†	19638.4	20079.5	100.35 ug/L	100.35 ppb	09:22:55
1	As 188.979†	181.6	212.7	106.65 ug/L	106.65 ppb	09:23:15
1	B 249.677†	3935.0	4736.1	97.668 ug/L	97.668 ppb	09:22:55
1	Ba 233.527†	66367.2	69148.3	521.35 ug/L	521.35 ppb	09:22:55
1	Be 313.107†	257708.3	272797.9	100.27 ug/L	100.27 ppb	09:22:55
1	Cd 226.502†	8687.7	9253.2	94.746 ug/L	94.746 ppb	09:23:15
1	Co 228.616†	5449.0	5755.0	109.70 ug/L	109.70 ppb	09:23:15
1	Cr 267.716†	16475.9	17090.9	183.46 ug/L	183.46 ppb	09:22:55
1	Cu 324.752†	43603.9	38879.3	114.45 ug/L	114.45 ppb	09:22:55
1	Mn 257.610†	877537.9	913714.7	969.77 ug/L	969.77 ppb	09:22:55
1	Mo 202.031†	1337.0	1372.3	95.232 ug/L	95.232 ppb	09:23:15
1	Ni 231.604†	5817.0	5965.8	141.94 ug/L	141.94 ppb	09:23:15
1	P 214.914†	732.3	551.4	280.85 ug/L	280.85 ppb	09:23:15
1	Pb 220.353†	925.1	1031.1	126.89 ug/L	126.89 ppb	09:23:15
1	S 181.975 Axial†	833.3	823.6	1089.7 ug/L	1089.7 ppb	09:23:15
1	Sb 206.836†	287.2	270.0	87.860 ug/L	87.860 ppb	09:23:15
1	Se 196.026†	-26.2	-3.2	106.80 ug/L	106.80 ppb	09:23:15
1	Si 251.611†	133409.8	138539.2	4240.4 ug/L	4240.4 ppb	09:22:55
1	Sn 189.927†	539.7	561.5	95.504 ug/L	95.504 ppb	09:23:15
1	Ti 334.940†	921237.5	961070.5	1492.2 ug/L	1492.2 ppb	09:22:55
1	Tl 190.801†	223.2	272.0	95.441 ug/L	95.441 ppb	09:23:15
1	U 409.014†	209.6	2295.8	61.133 ug/L	61.133 ppb	09:22:55
1	V 292.402†	21747.5	24046.8	152.33 ug/L	152.33 ppb	09:22:55
1	Zn 213.857†	17815.2	17562.6	154.58 ug/L	154.58 ppb	09:22:55
1	SiO2†	133212.3	138318.1	9052.8 ug/L	9052.8 ppb	09:24:13
2	Sc Radial	4918.0	4918.0	92.6 %		09:22:03
2	Y RADIAL	5381.3	5381.3	94.87 %		09:22:03
2	Al 396.153Radial†	56781.5	61327.7	44710 ug/L	44710 ppb	09:22:03
2	Ca 317.933Radial†	3196.6	3430.0	5212.7 ug/L	5212.7 ppb	09:22:23
2	Fe 238.204 Radial†	3744.3	4032.8	33251 ug/L	33251 ppb	09:22:03
2	K 766.490 Radial†	33223.1	33224.6	6015.6 ug/L	6015.6 ppb	09:22:03
2	Mg 279.077 IEC†	176.5	187.4	5824.5 ug/L	5824.5 ppb	09:22:23
2	Na 589.592 Radial†	2426.9	4237.5	1234.9 ug/L	1234.9 ppb	09:22:03
2	Sr 421.552†	23121.0	24949.6	157.57 ug/L	157.57 ppb	09:22:03
2	Sc 361.383	830997.4	830997.4	95.268 %		09:23:21
2	Y 371.029	703173.4	703173.4	95.867 %		09:23:21
2	Ag 328.068†	19467.4	20055.2	100.51 ug/L	100.51 ppb	09:23:21
2	As 188.979†	185.0	217.6	108.85 ug/L	108.85 ppb	09:23:41
2	B 249.677†	3832.8	4660.0	95.873 ug/L	95.873 ppb	09:23:21
2	Ba 233.527†	65985.1	69271.6	522.30 ug/L	522.30 ppb	09:23:21
2	Be 313.107†	256002.3	273043.4	100.36 ug/L	100.36 ppb	09:23:21
2	Cd 226.502†	8614.8	9245.4	94.577 ug/L	94.577 ppb	09:23:41
2	Co 228.616†	5403.0	5749.8	109.59 ug/L	109.59 ppb	09:23:41
2	Cr 267.716†	16447.7	17191.5	184.55 ug/L	184.55 ppb	09:23:21
2	Cu 324.752†	43321.0	38926.9	114.63 ug/L	114.63 ppb	09:23:21
2	Mn 257.610†	871399.6	914205.1	970.37 ug/L	970.37 ppb	09:23:21
2	Mo 202.031†	1329.2	1374.7	95.457 ug/L	95.457 ppb	09:23:41
2	Ni 231.604†	5771.4	5963.9	141.89 ug/L	141.89 ppb	09:23:41

2	P 214.914†	731.5	556.3	283.09 ug/L	283.09 ppb	09:23:41
2	Pb 220.353†	898.4	1010.3	124.48 ug/L	124.48 ppb	09:23:41
2	S 181.975 Axial†	834.5	831.4	1100.0 ug/L	1100.0 ppb	09:23:41
2	Sb 206.836†	290.5	275.7	89.768 ug/L	89.768 ppb	09:23:41
2	Se 196.026†	-27.9	-5.2	108.35 ug/L	108.35 ppb	09:23:41
2	Si 251.611†	132469.3	138606.1	4242.4 ug/L	4242.4 ppb	09:23:21
2	Sn 189.927†	536.4	562.3	95.657 ug/L	95.657 ppb	09:23:41
2	Ti 334.940†	914305.2	961072.7	1492.2 ug/L	1492.2 ppb	09:23:21
2	Tl 190.801†	225.5	276.2	96.664 ug/L	96.664 ppb	09:23:41
2	U 409.014†	101.1	2183.6	57.847 ug/L	57.847 ppb	09:23:21
2	V 292.402†	21537.6	23998.3	151.89 ug/L	151.89 ppb	09:23:21
2	Zn 213.857†	17654.1	17534.4	154.24 ug/L	154.24 ppb	09:23:21
2	SiO2†	133082.7	139234.6	9112.8 ug/L	9112.8 ppb	09:24:18
3	Sc Radial	4914.5	4914.5	92.5 %		09:22:28
3	Y RADIAL	5331.7	5331.7	93.99 %		09:22:28
3	Al 396.153Radial†	56076.3	60609.9	44186 ug/L	44186 ppb	09:22:28
3	Ca 317.933Radial†	3199.6	3435.7	5221.4 ug/L	5221.4 ppb	09:22:48
3	Fe 238.204 Radial†	3667.2	3952.4	32588 ug/L	32588 ppb	09:22:28
3	K 766.490 Radial†	32870.2	32869.3	5951.3 ug/L	5951.3 ppb	09:22:28
3	Mg 279.077 IEC†	181.5	192.9	5998.3 ug/L	5998.3 ppb	09:22:48
3	Na 589.592 Radial†	2462.8	4278.1	1246.7 ug/L	1246.7 ppb	09:22:28
3	Sr 421.552†	22968.9	24803.4	156.65 ug/L	156.65 ppb	09:22:28
3	Sc 361.383	826920.2	826920.2	94.800 %		09:23:47
3	Y 371.029	699040.9	699040.9	95.304 %		09:23:47
3	Ag 328.068†	19488.5	20178.2	100.84 ug/L	100.84 ppb	09:23:47
3	As 188.979†	185.8	219.4	109.42 ug/L	109.42 ppb	09:24:07
3	B 249.677†	3945.9	4799.1	99.009 ug/L	99.009 ppb	09:23:47
3	Ba 233.527†	65641.4	69250.6	522.13 ug/L	522.13 ppb	09:23:47
3	Be 313.107†	254623.0	272913.3	100.31 ug/L	100.31 ppb	09:23:47
3	Cd 226.502†	8668.4	9346.5	95.717 ug/L	95.717 ppb	09:24:07
3	Co 228.616†	5453.8	5831.4	111.20 ug/L	111.20 ppb	09:24:07
3	Cr 267.716†	16401.3	17227.7	184.93 ug/L	184.93 ppb	09:23:47
3	Cu 324.752†	43100.9	38918.9	114.57 ug/L	114.57 ppb	09:23:47
3	Mn 257.610†	868120.3	915255.7	971.41 ug/L	971.41 ppb	09:23:47
3	Mo 202.031†	1331.4	1383.9	96.026 ug/L	96.026 ppb	09:24:07
3	Ni 231.604†	5802.5	6026.6	143.39 ug/L	143.39 ppb	09:24:07
3	P 214.914†	744.6	574.0	293.63 ug/L	293.63 ppb	09:24:07
3	Pb 220.353†	910.0	1027.3	126.42 ug/L	126.42 ppb	09:24:07
3	S 181.975 Axial†	848.3	850.3	1125.4 ug/L	1125.4 ppb	09:24:07
3	Sb 206.836†	284.0	270.4	87.985 ug/L	87.985 ppb	09:24:07
3	Se 196.026†	-22.3	0.6	109.69 ug/L	109.69 ppb	09:24:07
3	Si 251.611†	132040.8	138839.8	4249.6 ug/L	4249.6 ppb	09:23:47
3	Sn 189.927†	523.9	551.9	93.900 ug/L	93.900 ppb	09:24:07
3	Ti 334.940†	909774.9	961025.8	1492.1 ug/L	1492.1 ppb	09:23:47
3	Tl 190.801†	214.7	265.9	93.662 ug/L	93.662 ppb	09:24:07
3	U 409.014†	195.6	2283.7	60.767 ug/L	60.767 ppb	09:23:47
3	V 292.402†	21532.6	24104.6	152.70 ug/L	152.70 ppb	09:23:47
3	Zn 213.857†	17600.1	17568.8	154.61 ug/L	154.61 ppb	09:23:47
3	SiO2†	133373.3	140229.9	9178.0 ug/L	9178.0 ppb	09:24:23

Mean Data: 1202006033|937483|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	831739.2	95.353 %	0.5995			0.63%
Sc Radial	4951.4	93.2 %	1.15			1.23%
Y 371.029	703377.1	95.895 %	0.6055			0.63%
Y RADIAL	5394.0	95.09 %	1.226			1.29%
Ag 328.068†	20104.3	100.56 ug/L	0.252	100.56 ppb	0.252	0.25%
Al 396.153Radial†	60886.7	44388 ug/L	281.5	44388 ppb	281.5	0.63%
As 188.979†	216.6	108.31 ug/L	1.466	108.31 ppb	1.466	1.35%
B 249.677†	4731.7	97.517 ug/L	1.5731	97.517 ppb	1.5731	1.61%
Ba 233.527†	69223.5	521.93 ug/L	0.506	521.93 ppb	0.506	0.10%
Be 313.107†	272918.2	100.31 ug/L	0.044	100.31 ppb	0.044	0.04%
Ca 317.933Radial†	3411.2	5184.2 ug/L	57.13	5184.2 ppb	57.13	1.10%
Cd 226.502†	9281.7	95.013 ug/L	0.6154	95.013 ppb	0.6154	0.65%
Co 228.616†	5778.8	110.16 ug/L	0.899	110.16 ppb	0.899	0.82%
Cr 267.716†	17170.0	184.31 ug/L	0.761	184.31 ppb	0.761	0.41%
Cu 324.752†	38908.4	114.55 ug/L	0.094	114.55 ppb	0.094	0.08%
Fe 238.204 Radial†	3972.5	32753 ug/L	439.0	32753 ppb	439.0	1.34%
K 766.490 Radial†	32942.6	5964.6 ug/L	45.90	5964.6 ppb	45.90	0.77%

Mg 279.077 IEC†	188.2	5850.3 ug/L	136.90	5850.3 ppb	136.90	2.34%
Mn 257.610†	914391.8	970.52 ug/L	0.828	970.52 ppb	0.828	0.09%
Mo 202.031†	1377.0	95.572 ug/L	0.4094	95.572 ppb	0.4094	0.43%
Na 589.592 Radial†	4236.0	1234.5 ug/L	12.48	1234.5 ppb	12.48	1.01%
Ni 231.604†	5985.4	142.41 ug/L	0.848	142.41 ppb	0.848	0.60%
P 214.914†	560.6	285.85 ug/L	6.828	285.85 ppb	6.828	2.39%
Pb 220.353†	1022.9	125.93 ug/L	1.273	125.93 ppb	1.273	1.01%
S 181.975 Axial†	835.1	1105.0 ug/L	18.37	1105.0 ppb	18.37	1.66%
Sb 206.836†	272.0	88.538 ug/L	1.0674	88.538 ppb	1.0674	1.21%
Se 196.026†	-2.6	108.28 ug/L	1.442	108.28 ppb	1.442	1.33%
Si 251.611†	138661.7	4244.1 ug/L	4.83	4244.1 ppb	4.83	0.11%
Sn 189.927†	558.6	95.021 ug/L	0.9733	95.021 ppb	0.9733	1.02%
Sr 421.552†	24825.2	156.79 ug/L	0.726	156.79 ppb	0.726	0.46%
Ti 334.940†	961056.4	1492.2 ug/L	0.05	1492.2 ppb	0.05	0.00%
Tl 190.801†	271.4	95.256 ug/L	1.5093	95.256 ppb	1.5093	1.58%
U 409.014†	2254.4	59.915 ug/L	1.8008	59.915 ppb	1.8008	3.01%
V 292.402†	24049.9	152.31 ug/L	0.405	152.31 ppb	0.405	0.27%
Zn 213.857†	17555.3	154.48 ug/L	0.203	154.48 ppb	0.203	0.13%
SiO2†	139260.8	9114.5 ug/L	62.59	9114.5 ppb	62.59	0.69%

Sequence No.: 4
 Sample ID: 1202006035|937483|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 41
 Date Collected: 1/14/2010 09:26:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202006035|937483|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4867.6	4867.6	91.7 %		09:28:25
1	Y RADIAL	5295.8	5295.8	93.36 %		09:28:25
1	Al 396.153Radial†	61255.7	66844.0	48732 ug/L	48732 ppb	09:28:25
1	Ca 317.933Radial†	3323.1	3603.8	5476.8 ug/L	5476.8 ppb	09:28:45
1	Fe 238.204 Radial†	3878.0	4220.6	34799 ug/L	34799 ppb	09:28:25
1	K 766.490 Radial†	34516.5	35007.4	6338.4 ug/L	6338.4 ppb	09:28:25
1	Mg 279.077 IEC†	191.8	206.0	6405.7 ug/L	6405.7 ppb	09:28:45
1	Na 589.592 Radial†	2558.1	4407.7	1284.5 ug/L	1284.5 ppb	09:28:25
1	Sr 421.552†	24329.0	26526.1	167.53 ug/L	167.53 ppb	09:28:25
1	Sc 361.383	800836.8	800836.8	91.810 %		09:29:43
1	Y 371.029	678465.9	678465.9	92.498 %		09:29:43
1	Ag 328.068†	19631.7	21003.7	105.27 ug/L	105.27 ppb	09:29:43
1	As 188.979†	179.9	219.3	111.36 ug/L	111.36 ppb	09:30:03
1	B 249.677†	4017.0	5012.2	103.28 ug/L	103.28 ppb	09:29:43
1	Ba 233.527†	71369.4	77744.8	586.10 ug/L	586.10 ppb	09:29:43
1	Be 313.107†	259957.4	287471.6	105.86 ug/L	105.86 ppb	09:29:43
1	Cd 226.502†	8788.4	9774.9	100.03 ug/L	100.03 ppb	09:30:03
1	Co 228.616†	5492.3	6060.7	115.35 ug/L	115.35 ppb	09:30:03
1	Cr 267.716†	16590.2	17996.9	193.20 ug/L	193.20 ppb	09:29:43
1	Cu 324.752†	43986.0	41363.8	121.78 ug/L	121.78 ppb	09:29:43
1	Mn 257.610†	1007986.4	1097424.5	1164.4 ug/L	1164.4 ppb	09:29:43
1	Mo 202.031†	1348.1	1447.8	100.52 ug/L	100.52 ppb	09:30:03
1	Ni 231.604†	5889.8	6321.0	150.39 ug/L	150.39 ppb	09:30:03
1	P 214.914†	744.6	599.6	306.34 ug/L	306.34 ppb	09:30:03
1	Pb 220.353†	911.5	1060.1	131.02 ug/L	131.02 ppb	09:30:03
1	S 181.975 Axial†	831.4	861.0	1138.7 ug/L	1138.7 ppb	09:30:03
1	Sb 206.836†	276.2	271.6	87.970 ug/L	87.970 ppb	09:30:03
1	Se 196.026†	-33.3	-12.1	109.39 ug/L	109.39 ppb	09:30:03
1	Si 251.611†	165377.8	179687.1	5500.1 ug/L	5500.1 ppb	09:29:43
1	Sn 189.927†	528.9	575.3	97.915 ug/L	97.915 ppb	09:30:03
1	Ti 334.940†	980862.6	1069711.8	1660.9 ug/L	1660.9 ppb	09:29:43
1	Tl 190.801†	237.8	298.5	105.43 ug/L	105.43 ppb	09:30:03
1	U 409.014†	175.1	2268.1	60.053 ug/L	60.053 ppb	09:29:43
1	V 292.402†	22417.0	25807.6	163.40 ug/L	163.40 ppb	09:29:43
1	Zn 213.857†	18215.4	18843.6	165.86 ug/L	165.86 ppb	09:29:43
1	SiO2†	164365.7	178569.2	11688 ug/L	11688 ppb	09:31:00
2	Sc Radial	4809.6	4809.6	90.6 %		09:28:51
2	Y RADIAL	5228.8	5228.8	92.18 %		09:28:51
2	Al 396.153Radial†	59962.0	66222.3	48278 ug/L	48278 ppb	09:28:51
2	Ca 317.933Radial†	3299.8	3621.8	5504.3 ug/L	5504.3 ppb	09:29:11
2	Fe 238.204 Radial†	3790.9	4175.5	34427 ug/L	34427 ppb	09:28:51
2	K 766.490 Radial†	33944.2	34830.1	6306.3 ug/L	6306.3 ppb	09:28:51
2	Mg 279.077 IEC†	186.0	202.2	6285.4 ug/L	6285.4 ppb	09:29:11
2	Na 589.592 Radial†	2385.4	4250.8	1238.8 ug/L	1238.8 ppb	09:28:51
2	Sr 421.552†	23740.1	26196.4	165.45 ug/L	165.45 ppb	09:28:51
2	Sc 361.383	813113.0	813113.0	93.217 %		09:30:09
2	Y 371.029	689193.1	689193.1	93.961 %		09:30:09
2	Ag 328.068†	19745.5	20803.0	104.25 ug/L	104.25 ppb	09:30:09
2	As 188.979†	173.8	209.9	107.24 ug/L	107.24 ppb	09:30:29
2	B 249.677†	3980.8	4907.2	101.06 ug/L	101.06 ppb	09:30:09
2	Ba 233.527†	71256.7	76450.2	576.35 ug/L	576.35 ppb	09:30:09
2	Be 313.107†	260045.8	283291.5	104.32 ug/L	104.32 ppb	09:30:09
2	Cd 226.502†	8755.5	9595.2	98.164 ug/L	98.164 ppb	09:30:29
2	Co 228.616†	5464.4	5940.4	113.03 ug/L	113.03 ppb	09:30:29
2	Cr 267.716†	16580.6	17713.8	190.17 ug/L	190.17 ppb	09:30:09
2	Cu 324.752†	44061.9	40721.9	119.90 ug/L	119.90 ppb	09:30:09
2	Mn 257.610†	1006712.9	1079482.3	1145.3 ug/L	1145.3 ppb	09:30:09
2	Mo 202.031†	1344.4	1421.7	98.726 ug/L	98.726 ppb	09:30:29
2	Ni 231.604†	5860.9	6193.1	147.35 ug/L	147.35 ppb	09:30:29

2	P 214.914†	753.3	596.6	305.22 ug/L	305.22 ppb	09:30:29
2	Pb 220.353†	900.7	1033.6	127.86 ug/L	127.86 ppb	09:30:29
2	S 181.975 Axial†	846.4	863.4	1142.1 ug/L	1142.1 ppb	09:30:29
2	Sb 206.836†	265.9	256.0	82.870 ug/L	82.870 ppb	09:30:29
2	Se 196.026†	-34.1	-12.4	107.97 ug/L	107.97 ppb	09:30:29
2	Si 251.611†	165345.6	176932.9	5415.8 ug/L	5415.8 ppb	09:30:09
2	Sn 189.927†	547.8	586.9	99.854 ug/L	99.854 ppb	09:30:29
2	Ti 334.940†	981839.0	1054629.4	1637.5 ug/L	1637.5 ppb	09:30:09
2	Tl 190.801†	234.3	290.8	102.91 ug/L	102.91 ppb	09:30:29
2	U 409.014†	159.1	2248.1	59.534 ug/L	59.534 ppb	09:30:09
2	V 292.402†	22435.7	25459.1	161.17 ug/L	161.17 ppb	09:30:09
2	Zn 213.857†	18155.9	18480.2	162.64 ug/L	162.64 ppb	09:30:09
2	SiO2†	163726.4	175180.4	11466 ug/L	11466 ppb	09:31:06
3	Sc Radial	4924.6	4924.6	92.7 %		09:29:16
3	Y RADIAL	5363.1	5363.1	94.55 %		09:29:16
3	Al 396.153Radial†	61239.1	66053.0	48155 ug/L	48155 ppb	09:29:16
3	Ca 317.933Radial†	3335.9	3575.6	5434.0 ug/L	5434.0 ppb	09:29:36
3	Fe 238.204 Radial†	3894.2	4189.1	34540 ug/L	34540 ppb	09:29:16
3	K 766.490 Radial†	34799.5	34876.8	6314.8 ug/L	6314.8 ppb	09:29:16
3	Mg 279.077 IEC†	189.2	200.8	6242.9 ug/L	6242.9 ppb	09:29:36
3	Na 589.592 Radial†	2561.3	4379.0	1276.1 ug/L	1276.1 ppb	09:29:16
3	Sr 421.552†	24413.7	26310.4	166.17 ug/L	166.17 ppb	09:29:16
3	Sc 361.383	813075.6	813075.6	93.213 %		09:30:35
3	Y 371.029	688024.3	688024.3	93.802 %		09:30:35
3	Ag 328.068†	19597.0	20644.6	103.57 ug/L	103.57 ppb	09:30:35
3	As 188.979†	189.7	226.9	114.06 ug/L	114.06 ppb	09:30:55
3	B 249.677†	3932.6	4855.7	99.918 ug/L	99.918 ppb	09:30:35
3	Ba 233.527†	70742.7	75902.4	572.23 ug/L	572.23 ppb	09:30:35
3	Be 313.107†	257342.2	280404.0	103.27 ug/L	103.27 ppb	09:30:35
3	Cd 226.502†	8739.5	9578.5	97.975 ug/L	97.975 ppb	09:30:55
3	Co 228.616†	5482.6	5960.2	113.45 ug/L	113.45 ppb	09:30:55
3	Cr 267.716†	16446.8	17571.0	188.64 ug/L	188.64 ppb	09:30:35
3	Cu 324.752†	43768.8	40409.6	119.00 ug/L	119.00 ppb	09:30:35
3	Mn 257.610†	1000581.7	1072954.5	1138.5 ug/L	1138.5 ppb	09:30:35
3	Mo 202.031†	1331.9	1408.3	97.832 ug/L	97.832 ppb	09:30:55
3	Ni 231.604†	5875.0	6208.5	147.72 ug/L	147.72 ppb	09:30:55
3	P 214.914†	750.9	594.0	303.79 ug/L	303.79 ppb	09:30:55
3	Pb 220.353†	907.0	1040.4	128.61 ug/L	128.61 ppb	09:30:55
3	S 181.975 Axial†	844.5	861.4	1139.4 ug/L	1139.4 ppb	09:30:55
3	Sb 206.836†	285.3	276.8	89.770 ug/L	89.770 ppb	09:30:55
3	Se 196.026†	-21.5	1.0	116.53 ug/L	116.53 ppb	09:30:55
3	Si 251.611†	164304.3	175824.0	5381.9 ug/L	5381.9 ppb	09:30:35
3	Sn 189.927†	547.5	586.6	99.799 ug/L	99.799 ppb	09:30:55
3	Ti 334.940†	973929.6	1046192.5	1624.4 ug/L	1624.4 ppb	09:30:35
3	Tl 190.801†	213.0	268.0	96.134 ug/L	96.134 ppb	09:30:55
3	U 409.014†	196.1	2287.8	60.651 ug/L	60.651 ppb	09:30:35
3	V 292.402†	22137.9	25140.7	159.08 ug/L	159.08 ppb	09:30:35
3	Zn 213.857†	18055.0	18372.9	161.65 ug/L	161.65 ppb	09:30:35
3	SiO2†	163300.6	174731.8	11437 ug/L	11437 ppb	09:31:11

Mean Data: 1202006035|937483|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809008.5	92.747 %		0.8113			0.87%
Sc Radial	4867.3	91.7 %		1.08			1.18%
Y 371.029	685227.8	93.420 %		0.8023			0.86%
Y RADIAL	5295.9	93.36 %		1.184			1.27%
Ag 328.068†	20817.1	104.36 ug/L		0.855	104.36 ppb	0.855	0.82%
Al 396.153Radial†	66373.1	48388 ug/L		303.6	48388 ppb	303.6	0.63%
As 188.979†	218.7	110.89 ug/L		3.435	110.89 ppb	3.435	3.10%
B 249.677†	4925.0	101.42 ug/L		1.711	101.42 ppb	1.711	1.69%
Ba 233.527†	76699.1	578.22 ug/L		7.125	578.22 ppb	7.125	1.23%
Be 313.107†	283722.4	104.49 ug/L		1.304	104.49 ppb	1.304	1.25%
Ca 317.933Radial†	3600.4	5471.7 ug/L		35.40	5471.7 ppb	35.40	0.65%
Cd 226.502†	9649.5	98.723 ug/L		1.1363	98.723 ppb	1.1363	1.15%
Co 228.616†	5987.1	113.94 ug/L		1.234	113.94 ppb	1.234	1.08%
Cr 267.716†	17760.6	190.67 ug/L		2.322	190.67 ppb	2.322	1.22%
Cu 324.752†	40831.8	120.23 ug/L		1.419	120.23 ppb	1.419	1.18%
Fe 238.204 Radial†	4195.0	34588 ug/L		190.7	34588 ppb	190.7	0.55%
K 766.490 Radial†	34904.8	6319.8 ug/L		16.63	6319.8 ppb	16.63	0.26%

Mg 279.077 IEC†	203.0	6311.4 ug/L	84.47	6311.4 ppb	84.47	1.34%
Mn 257.610†	1083287.1	1149.4 ug/L	13.42	1149.4 ppb	13.42	1.17%
Mo 202.031†	1425.9	99.024 ug/L	1.3663	99.024 ppb	1.3663	1.38%
Na 589.592 Radial†	4345.8	1266.5 ug/L	24.35	1266.5 ppb	24.35	1.92%
Ni 231.604†	6240.9	148.49 ug/L	1.661	148.49 ppb	1.661	1.12%
P 214.914†	596.7	305.12 ug/L	1.277	305.12 ppb	1.277	0.42%
Pb 220.353†	1044.7	129.16 ug/L	1.650	129.16 ppb	1.650	1.28%
S 181.975 Axial†	861.9	1140.1 ug/L	1.76	1140.1 ppb	1.76	0.15%
Sb 206.836†	268.2	86.870 ug/L	3.5791	86.870 ppb	3.5791	4.12%
Se 196.026†	-7.8	111.30 ug/L	4.589	111.30 ppb	4.589	4.12%
Si 251.611†	177481.3	5432.6 ug/L	60.88	5432.6 ppb	60.88	1.12%
Sn 189.927†	583.0	99.189 ug/L	1.1042	99.189 ppb	1.1042	1.11%
Sr 421.552†	26344.3	166.38 ug/L	1.058	166.38 ppb	1.058	0.64%
Ti 334.940†	1056844.6	1640.9 ug/L	18.49	1640.9 ppb	18.49	1.13%
Tl 190.801†	285.8	101.49 ug/L	4.808	101.49 ppb	4.808	4.74%
U 409.014†	2268.0	60.079 ug/L	0.5589	60.079 ppb	0.5589	0.93%
V 292.402†	25469.1	161.21 ug/L	2.161	161.21 ppb	2.161	1.34%
Zn 213.857†	18565.6	163.39 ug/L	2.202	163.39 ppb	2.202	1.35%
SiO2†	176160.5	11530 ug/L	137.3	11530 ppb	137.3	1.19%

Sequence No.: 5
 Sample ID: 1202006034|937483|25
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 42
 Date Collected: 1/14/2010 09:33:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202006034|937483|25

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4816.2	4816.2	90.7 %		09:35:14
1	Y RADIAL	5177.2	5177.2	91.27 %		09:35:14
1	Al 396.153Radial†	7334.6	8103.8	5908.5 ug/L	5908.5 ppb	09:35:14
1	Ca 317.933Radial†	563.1	599.4	910.87 ug/L	910.87 ppb	09:35:34
1	Fe 238.204 Radial†	712.7	775.6	6394.9 ug/L	6394.9 ppb	09:35:34
1	K 766.490 Radial†	7185.3	5273.9	954.70 ug/L	954.70 ppb	09:35:14
1	Mg 279.077 IEC†	32.3	32.4	1006.8 ug/L	1006.8 ppb	09:35:34
1	Na 589.592 Radial†	-1406.9	65.7	19.159 ug/L	19.159 ppb	09:35:14
1	Sr 421.552†	1712.0	1871.9	11.818 ug/L	11.818 ppb	09:35:14
1	Sc 361.383	810630.0	810630.0	92.933 %		09:36:31
1	Y 371.029	679767.9	679767.9	92.676 %		09:36:31
1	Ag 328.068†	-45.9	-428.6	0.2138 ug/L	0.2138 ppb	09:36:36
1	As 188.979†	-20.1	1.8	4.5125 ug/L	4.5125 ppb	09:36:56
1	B 249.677†	-401.1	205.2	3.4101 ug/L	3.4101 ppb	09:36:36
1	Ba 233.527†	18802.0	20240.7	152.44 ug/L	152.44 ppb	09:36:36
1	Be 313.107†	-4666.7	-697.2	0.3488 ug/L	0.3488 ppb	09:36:36
1	Cd 226.502†	-132.6	59.9	-0.0195 ug/L	-0.0195 ppb	09:36:56
1	Co 228.616†	348.6	453.5	8.3190 ug/L	8.3190 ppb	09:36:56
1	Cr 267.716†	2209.7	2304.5	24.773 ug/L	24.773 ppb	09:36:36
1	Cu 324.752†	7151.4	1149.2	3.6768 ug/L	3.6768 ppb	09:36:36
1	Mn 257.610†	697183.4	749721.9	793.88 ug/L	793.88 ppb	09:36:31
1	Mo 202.031†	28.1	9.7	1.1621 ug/L	1.1621 ppb	09:36:56
1	Ni 231.604†	609.0	561.1	13.351 ug/L	13.351 ppb	09:36:56
1	P 214.914†	293.4	104.3	55.670 ug/L	55.670 ppb	09:36:56
1	Pb 220.353†	-7.0	59.8	7.6478 ug/L	7.6478 ppb	09:36:56
1	S 181.975 Axial†	62.2	22.3	28.684 ug/L	28.684 ppb	09:36:56
1	Sb 206.836†	26.5	-0.7	-1.0328 ug/L	-1.0328 ppb	09:36:56
1	Se 196.026†	-58.5	-38.8	-2.3481 ug/L	-2.3481 ppb	09:36:56
1	Si 251.611†	36716.0	39064.7	1196.0 ug/L	1196.0 ppb	09:36:36
1	Sn 189.927†	-3.9	-5.0	-0.5879 ug/L	-0.5879 ppb	09:36:56
1	Ti 334.940†	156004.3	169218.4	262.75 ug/L	262.75 ppb	09:36:31
1	Tl 190.801†	-57.4	-22.3	-0.5979 ug/L	-0.5979 ppb	09:36:56
1	U 409.014†	-2232.3	-324.6	-10.009 ug/L	-10.009 ppb	09:36:31
1	V 292.402†	627.1	2065.7	12.293 ug/L	12.293 ppb	09:36:36
1	Zn 213.857†	2108.3	1271.9	10.789 ug/L	10.789 ppb	09:36:56
1	SiO2†	36226.4	38522.4	2522.0 ug/L	2522.0 ppb	09:38:03
2	Sc Radial	4852.2	4852.2	91.4 %		09:35:39
2	Y RADIAL	5188.1	5188.1	91.46 %		09:35:39
2	Al 396.153Radial†	7359.4	8071.1	5884.7 ug/L	5884.7 ppb	09:35:39
2	Ca 317.933Radial†	558.7	589.9	896.49 ug/L	896.49 ppb	09:35:59
2	Fe 238.204 Radial†	714.8	772.1	6365.5 ug/L	6365.5 ppb	09:35:59
2	K 766.490 Radial†	7151.6	5178.3	937.39 ug/L	937.39 ppb	09:35:39
2	Mg 279.077 IEC†	28.9	28.4	880.36 ug/L	880.36 ppb	09:35:59
2	Na 589.592 Radial†	-1443.0	37.7	10.979 ug/L	10.979 ppb	09:35:39
2	Sr 421.552†	1705.9	1851.3	11.688 ug/L	11.688 ppb	09:35:39
2	Sc 361.383	826060.5	826060.5	94.702 %		09:37:01
2	Y 371.029	693015.1	693015.1	94.482 %		09:37:01
2	Ag 328.068†	-46.1	-427.9	0.2068 ug/L	0.2068 ppb	09:37:07
2	As 188.979†	-36.0	-14.6	-2.1711 ug/L	-2.1711 ppb	09:37:27
2	B 249.677†	-471.3	139.1	1.9751 ug/L	1.9751 ppb	09:37:07
2	Ba 233.527†	18970.6	20040.7	150.94 ug/L	150.94 ppb	09:37:07
2	Be 313.107†	-4651.3	-587.1	0.3850 ug/L	0.3850 ppb	09:37:07
2	Cd 226.502†	-131.4	63.8	0.0250 ug/L	0.0250 ppb	09:37:27
2	Co 228.616†	337.2	434.5	7.9470 ug/L	7.9470 ppb	09:37:27
2	Cr 267.716†	2204.1	2254.2	24.234 ug/L	24.234 ppb	09:37:07
2	Cu 324.752†	7183.1	1038.9	3.3561 ug/L	3.3561 ppb	09:37:07
2	Mn 257.610†	707184.8	746269.4	790.23 ug/L	790.23 ppb	09:37:01
2	Mo 202.031†	18.0	-1.6	0.3997 ug/L	0.3997 ppb	09:37:27
2	Ni 231.604†	613.7	553.8	13.178 ug/L	13.178 ppb	09:37:27

2	P 214.914†	296.2	101.3	54.052 ug/L	54.052 ppb	09:37:27
2	Pb 220.353†	-17.6	48.8	6.3501 ug/L	6.3501 ppb	09:37:27
2	S 181.975 Axial†	64.3	23.4	30.070 ug/L	30.070 ppb	09:37:27
2	Sb 206.836†	35.6	8.4	1.9429 ug/L	1.9429 ppb	09:37:27
2	Se 196.026†	-63.9	-43.3	-5.2243 ug/L	-5.2243 ppb	09:37:27
2	Si 251.611†	37056.0	38685.7	1184.4 ug/L	1184.4 ppb	09:37:07
2	Sn 189.927†	-5.0	-6.1	-0.7759 ug/L	-0.7759 ppb	09:37:27
2	Ti 334.940†	158176.6	168376.5	261.45 ug/L	261.45 ppb	09:37:01
2	Tl 190.801†	-56.3	-20.0	0.0508 ug/L	0.0508 ppb	09:37:27
2	U 409.014†	-2311.7	-363.6	-11.112 ug/L	-11.112 ppb	09:37:01
2	V 292.402†	577.8	2001.0	11.861 ug/L	11.861 ppb	09:37:07
2	Zn 213.857†	2101.8	1222.7	10.349 ug/L	10.349 ppb	09:37:27
2	SiO2†	36595.0	38183.4	2499.8 ug/L	2499.8 ppb	09:38:08
3	Sc Radial	4903.8	4903.8	92.3 %		09:36:04
3	Y RADIAL	5258.6	5258.6	92.71 %		09:36:04
3	Al 396.153Radial†	7498.4	8136.9	5932.6 ug/L	5932.6 ppb	09:36:04
3	Ca 317.933Radial†	568.9	594.5	903.50 ug/L	903.50 ppb	09:36:24
3	Fe 238.204 Radial†	717.9	767.3	6326.1 ug/L	6326.1 ppb	09:36:24
3	K 766.490 Radial†	7181.4	5128.2	928.30 ug/L	928.30 ppb	09:36:04
3	Mg 279.077 IEC†	30.6	29.9	927.91 ug/L	927.91 ppb	09:36:24
3	Na 589.592 Radial†	-1434.8	63.3	18.433 ug/L	18.433 ppb	09:36:04
3	Sr 421.552†	1762.7	1893.1	11.952 ug/L	11.952 ppb	09:36:04
3	Sc 361.383	821873.2	821873.2	94.222 %		09:37:32
3	Y 371.029	689148.6	689148.6	93.955 %		09:37:32
3	Ag 328.068†	-105.5	-491.3	-0.0870 ug/L	-0.0870 ppb	09:37:37
3	As 188.979†	-29.3	-7.7	0.6248 ug/L	0.6248 ppb	09:37:57
3	B 249.677†	-475.7	131.9	1.8226 ug/L	1.8226 ppb	09:37:37
3	Ba 233.527†	19045.9	20222.8	152.30 ug/L	152.30 ppb	09:37:37
3	Be 313.107†	-4631.3	-590.9	0.3826 ug/L	0.3826 ppb	09:37:37
3	Cd 226.502†	-124.8	70.2	0.0960 ug/L	0.0960 ppb	09:37:57
3	Co 228.616†	365.0	465.8	8.5626 ug/L	8.5626 ppb	09:37:57
3	Cr 267.716†	2251.7	2316.6	24.901 ug/L	24.901 ppb	09:37:37
3	Cu 324.752†	7199.7	1095.2	3.5170 ug/L	3.5170 ppb	09:37:37
3	Mn 257.610†	703433.8	746092.9	790.03 ug/L	790.03 ppb	09:37:32
3	Mo 202.031†	21.8	2.6	0.6743 ug/L	0.6743 ppb	09:37:57
3	Ni 231.604†	597.3	539.8	12.843 ug/L	12.843 ppb	09:37:57
3	P 214.914†	280.2	85.9	45.195 ug/L	45.195 ppb	09:37:57
3	Pb 220.353†	-14.1	52.4	6.7865 ug/L	6.7865 ppb	09:37:57
3	S 181.975 Axial†	63.0	22.3	28.597 ug/L	28.597 ppb	09:37:57
3	Sb 206.836†	45.2	18.7	5.3393 ug/L	5.3393 ppb	09:37:57
3	Se 196.026†	-62.1	-41.8	-4.4111 ug/L	-4.4111 ppb	09:37:57
3	Si 251.611†	37309.9	39154.5	1198.8 ug/L	1198.8 ppb	09:37:37
3	Sn 189.927†	-10.8	-12.2	-1.7977 ug/L	-1.7977 ppb	09:37:57
3	Ti 334.940†	157105.7	168090.9	261.01 ug/L	261.01 ppb	09:37:32
3	Tl 190.801†	-55.3	-19.2	0.2925 ug/L	0.2925 ppb	09:37:57
3	U 409.014†	-2294.2	-357.5	-10.935 ug/L	-10.935 ppb	09:37:32
3	V 292.402†	615.2	2043.9	12.152 ug/L	12.152 ppb	09:37:37
3	Zn 213.857†	2103.3	1235.5	10.470 ug/L	10.470 ppb	09:37:57
3	SiO2†	36788.5	38585.7	2526.1 ug/L	2526.1 ppb	09:38:13

Mean Data: 1202006034|937483|25

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819521.2	93.952 %	0.9148			0.97%
Sc Radial	4857.4	91.5 %	0.83			0.91%
Y 371.029	687310.5	93.704 %	0.9287			0.99%
Y RADIAL	5208.0	91.81 %	0.779			0.85%
Ag 328.068†	-449.3	0.1112 ug/L	0.17168	0.1112 ppb	0.17168	154.40%
Al 396.153Radial†	8103.9	5908.6 ug/L	23.97	5908.6 ppb	23.97	0.41%
As 188.979†	-6.8	0.9887 ug/L	3.35664	0.9887 ppb	3.35664	339.50%
B 249.677†	158.8	2.4026 ug/L	0.87588	2.4026 ppb	0.87588	36.46%
Ba 233.527†	20168.1	151.89 ug/L	0.832	151.89 ppb	0.832	0.55%
Be 313.107†	-625.1	0.3721 ug/L	0.02021	0.3721 ppb	0.02021	5.43%
Ca 317.933Radial†	594.6	903.62 ug/L	7.191	903.62 ppb	7.191	0.80%
Cd 226.502†	64.6	0.0339 ug/L	0.05824	0.0339 ppb	0.05824	172.03%
Co 228.616†	451.3	8.2762 ug/L	0.31003	8.2762 ppb	0.31003	3.75%
Cr 267.716†	2291.8	24.636 ug/L	0.3537	24.636 ppb	0.3537	1.44%
Cu 324.752†	1094.4	3.5166 ug/L	0.16034	3.5166 ppb	0.16034	4.56%
Fe 238.204 Radial†	771.7	6362.2 ug/L	34.53	6362.2 ppb	34.53	0.54%
K 766.490 Radial†	5193.5	940.13 ug/L	13.410	940.13 ppb	13.410	1.43%

Mg 279.077 IEC†	30.2	938.35 ug/L	63.861	938.35 ppb	63.861	6.81%
Mn 257.610†	747361.4	791.38 ug/L	2.166	791.38 ppb	2.166	0.27%
Mo 202.031†	3.6	0.7454 ug/L	0.38614	0.7454 ppb	0.38614	51.81%
Na 589.592 Radial†	55.6	16.190 ug/L	4.5279	16.190 ppb	4.5279	27.97%
Ni 231.604†	551.6	13.124 ug/L	0.2585	13.124 ppb	0.2585	1.97%
P 214.914†	97.2	51.639 ug/L	5.6391	51.639 ppb	5.6391	10.92%
Pb 220.353†	53.7	6.9282 ug/L	0.66035	6.9282 ppb	0.66035	9.53%
S 181.975 Axial†	22.7	29.117 ug/L	0.8263	29.117 ppb	0.8263	2.84%
Sb 206.836†	8.8	2.0831 ug/L	3.18835	2.0831 ppb	3.18835	153.06%
Se 196.026†	-41.3	-3.9945 ug/L	1.48266	-3.9945 ppb	1.48266	37.12%
Si 251.611†	38968.3	1193.1 ug/L	7.61	1193.1 ppb	7.61	0.64%
Sn 189.927†	-7.7	-1.0538 ug/L	0.65103	-1.0538 ppb	0.65103	61.78%
Sr 421.552†	1872.1	11.820 ug/L	0.1321	11.820 ppb	0.1321	1.12%
Ti 334.940†	168561.9	261.74 ug/L	0.906	261.74 ppb	0.906	0.35%
Tl 190.801†	-20.5	-0.0849 ug/L	0.46048	-0.0849 ppb	0.46048	542.57%
U 409.014†	-348.6	-10.686 ug/L	0.5928	-10.686 ppb	0.5928	5.55%
V 292.402†	2036.9	12.102 ug/L	0.2203	12.102 ppb	0.2203	1.82%
Zn 213.857†	1243.4	10.536 ug/L	0.2275	10.536 ppb	0.2275	2.16%
SiO2†	38430.5	2515.9 ug/L	14.15	2515.9 ppb	14.15	0.56%

Sequence No.: 6

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/14/2010 09:40:23

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	4661.2	4661.2	87.8 %		09:42:15
1	Y RADIAL	4983.6	4983.6	87.86 %		09:42:15
1	Al 396.153Radial†	6192.9	7072.1	5132.2 ug/L	5132.2 ppb	09:42:15
1	Ca 317.933Radial†	3035.7	3437.0	5223.3 ug/L	5223.3 ppb	09:42:35
1	Fe 238.204 Radial†	564.7	633.2	5235.3 ug/L	5235.3 ppb	09:42:35
1	K 766.490 Radial†	27876.0	29109.8	5266.5 ug/L	5266.5 ppb	09:42:15
1	Mg 279.077 IEC†	153.0	171.1	5347.8 ug/L	5347.8 ppb	09:42:35
1	Na 589.592 Radial†	29225.0	34912.3	10174 ug/L	10174 ppb	09:42:15
1	Sr 421.552†	71948.0	81952.8	517.67 ug/L	517.67 ppb	09:42:15
1	Sc 361.383	813416.4	813416.4	93.252 %		09:43:32
1	Y 371.029	672051.9	672051.9	91.624 %		09:43:32
1	Ag 328.068†	102042.5	109047.2	488.36 ug/L	488.36 ppb	09:43:37
1	As 188.979†	1106.1	1209.6	495.39 ug/L	495.39 ppb	09:43:57
1	B 249.677†	20033.1	22119.5	479.98 ug/L	479.98 ppb	09:43:37
1	Ba 233.527†	61254.5	65695.8	495.30 ug/L	495.30 ppb	09:43:37
1	Be 313.107†	1295693.8	1393776.3	496.09 ug/L	496.09 ppb	09:43:32
1	Cd 226.502†	43356.3	46696.2	494.38 ug/L	494.38 ppb	09:43:37
1	Co 228.616†	23454.7	25230.3	495.08 ug/L	495.08 ppb	09:43:37
1	Cr 267.716†	43022.3	46062.3	492.82 ug/L	492.82 ppb	09:43:37
1	Cu 324.752†	162998.6	168247.4	488.01 ug/L	488.01 ppb	09:43:37
1	Mn 257.610†	440771.4	472185.8	499.92 ug/L	499.92 ppb	09:43:32
1	Mo 202.031†	6884.5	7362.1	497.53 ug/L	497.53 ppb	09:43:57
1	Ni 231.604†	19457.4	20771.1	494.14 ug/L	494.14 ppb	09:43:37
1	P 214.914†	4203.3	4295.9	2377.8 ug/L	2377.8 ppb	09:43:57
1	Pb 220.353†	3916.2	4266.9	499.37 ug/L	499.37 ppb	09:43:57
1	S 181.975 Axial†	743.5	752.7	1002.6 ug/L	1002.6 ppb	09:43:57
1	Sb 206.836†	1402.3	1474.5	505.54 ug/L	505.54 ppb	09:43:57
1	Se 196.026†	737.8	815.4	515.01 ug/L	515.01 ppb	09:43:57
1	Si 251.611†	76464.1	81553.7	2490.7 ug/L	2490.7 ppb	09:43:37
1	Sn 189.927†	2780.9	2981.4	500.93 ug/L	500.93 ppb	09:43:57
1	Ti 334.940†	291193.1	313614.6	486.77 ug/L	486.77 ppb	09:43:37
1	Tl 190.801†	1546.1	1697.4	497.72 ug/L	497.72 ppb	09:43:57
1	U 409.014†	14023.4	17115.6	484.66 ug/L	484.66 ppb	09:43:37
1	V 292.402†	68680.5	75041.2	497.03 ug/L	497.03 ppb	09:43:37
1	Zn 213.857†	52336.7	55127.1	494.07 ug/L	494.07 ppb	09:43:37
1	SiO2†	76838.3	81939.5	5350.8 ug/L	5350.8 ppb	09:45:05
2	Sc Radial	4714.1	4714.1	88.8 %		09:42:40
2	Y RADIAL	4992.8	4992.8	88.02 %		09:42:40
2	Al 396.153Radial†	6217.6	7020.9	5094.1 ug/L	5094.1 ppb	09:42:40
2	Ca 317.933Radial†	3026.4	3387.7	5148.4 ug/L	5148.4 ppb	09:43:00
2	Fe 238.204 Radial†	564.6	625.8	5174.6 ug/L	5174.6 ppb	09:43:00
2	K 766.490 Radial†	28155.3	29068.1	5259.0 ug/L	5259.0 ppb	09:42:40
2	Mg 279.077 IEC†	152.5	168.6	5271.4 ug/L	5271.4 ppb	09:43:00
2	Na 589.592 Radial†	29465.9	34810.1	10144 ug/L	10144 ppb	09:42:40
2	Sr 421.552†	72500.8	81655.9	515.80 ug/L	515.80 ppb	09:42:40
2	Sc 361.383	795736.5	795736.5	91.225 %		09:44:03
2	Y 371.029	659374.6	659374.6	89.896 %		09:44:03
2	Ag 328.068†	102436.1	111909.9	501.11 ug/L	501.11 ppb	09:44:08
2	As 188.979†	1128.7	1260.6	516.17 ug/L	516.17 ppb	09:44:28
2	B 249.677†	20103.3	22673.7	492.04 ug/L	492.04 ppb	09:44:08
2	Ba 233.527†	61070.4	66953.5	504.77 ug/L	504.77 ppb	09:44:08
2	Be 313.107†	1268596.0	1394943.4	496.53 ug/L	496.53 ppb	09:44:03
2	Cd 226.502†	43329.2	47699.5	505.02 ug/L	505.02 ppb	09:44:08
2	Co 228.616†	23439.4	25772.4	505.73 ug/L	505.73 ppb	09:44:08
2	Cr 267.716†	43039.8	47106.5	503.99 ug/L	503.99 ppb	09:44:08
2	Cu 324.752†	163579.8	172768.1	501.11 ug/L	501.11 ppb	09:44:08
2	Mn 257.610†	430731.7	471682.2	499.38 ug/L	499.38 ppb	09:44:03
2	Mo 202.031†	6941.1	7588.2	512.79 ug/L	512.79 ppb	09:44:28
2	Ni 231.604†	19431.8	21206.6	504.50 ug/L	504.50 ppb	09:44:08

2	P 214.914†	4238.9	4435.1	2455.5 ug/L	2455.5 ppb	09:44:28
2	Pb 220.353†	3946.8	4393.8	514.19 ug/L	514.19 ppb	09:44:28
2	S 181.975 Axial†	744.0	771.1	1027.0 ug/L	1027.0 ppb	09:44:28
2	Sb 206.836†	1415.6	1522.5	521.96 ug/L	521.96 ppb	09:44:28
2	Se 196.026†	753.7	850.4	536.15 ug/L	536.15 ppb	09:44:28
2	Si 251.611†	76713.3	83648.7	2554.7 ug/L	2554.7 ppb	09:44:08
2	Sn 189.927†	2808.8	3078.2	517.15 ug/L	517.15 ppb	09:44:28
2	Ti 334.940†	291511.7	320901.8	498.07 ug/L	498.07 ppb	09:44:08
2	Tl 190.801†	1563.7	1753.6	514.12 ug/L	514.12 ppb	09:44:28
2	U 409.014†	14159.2	17598.5	498.36 ug/L	498.36 ppb	09:44:08
2	V 292.402†	68553.4	76538.3	507.05 ug/L	507.05 ppb	09:44:08
2	Zn 213.857†	52295.6	56329.1	504.86 ug/L	504.86 ppb	09:44:08
2	SiO2†	76792.9	83720.5	5467.0 ug/L	5467.0 ppb	09:45:10
3	Sc Radial	4755.6	4755.6	89.6 %		09:43:05
3	Y RADIAL	5050.3	5050.3	89.03 %		09:43:05
3	Al 396.153Radial†	6302.5	7054.5	5119.1 ug/L	5119.1 ppb	09:43:05
3	Ca 317.933Radial†	3014.6	3344.8	5083.2 ug/L	5083.2 ppb	09:43:25
3	Fe 238.204 Radial†	567.4	623.5	5155.1 ug/L	5155.1 ppb	09:43:25
3	K 766.490 Radial†	28428.9	29096.8	5264.2 ug/L	5264.2 ppb	09:43:05
3	Mg 279.077 IEC†	155.2	170.1	5317.2 ug/L	5317.2 ppb	09:43:25
3	Na 589.592 Radial†	29653.1	34729.4	10121 ug/L	10121 ppb	09:43:05
3	Sr 421.552†	73119.1	81633.5	515.65 ug/L	515.65 ppb	09:43:05
3	Sc 361.383	806869.8	806869.8	92.502 %		09:44:34
3	Y 371.029	666685.1	666685.1	90.892 %		09:44:34
3	Ag 328.068†	102520.5	110451.8	494.61 ug/L	494.61 ppb	09:44:39
3	As 188.979†	1109.1	1222.5	500.68 ug/L	500.68 ppb	09:44:59
3	B 249.677†	20406.5	22697.4	492.56 ug/L	492.56 ppb	09:44:39
3	Ba 233.527†	61943.6	66973.7	504.92 ug/L	504.92 ppb	09:44:39
3	Be 313.107†	1286780.4	1395413.8	496.69 ug/L	496.69 ppb	09:44:34
3	Cd 226.502†	43933.4	47697.3	505.00 ug/L	505.00 ppb	09:44:39
3	Co 228.616†	23763.8	25768.6	505.63 ug/L	505.63 ppb	09:44:39
3	Cr 267.716†	43507.3	46960.9	502.43 ug/L	502.43 ppb	09:44:39
3	Cu 324.752†	165207.4	172053.4	499.04 ug/L	499.04 ppb	09:44:39
3	Mn 257.610†	438180.8	473220.2	501.01 ug/L	501.01 ppb	09:44:34
3	Mo 202.031†	6906.2	7445.5	503.15 ug/L	503.15 ppb	09:44:59
3	Ni 231.604†	19693.3	21195.5	504.23 ug/L	504.23 ppb	09:44:39
3	P 214.914†	4200.5	4329.4	2395.0 ug/L	2395.0 ppb	09:44:59
3	Pb 220.353†	3897.4	4280.7	500.98 ug/L	500.98 ppb	09:44:59
3	S 181.975 Axial†	743.7	759.5	1011.5 ug/L	1011.5 ppb	09:44:59
3	Sb 206.836†	1409.4	1494.4	512.28 ug/L	512.28 ppb	09:44:59
3	Se 196.026†	735.3	819.0	516.97 ug/L	516.97 ppb	09:44:59
3	Si 251.611†	77554.5	83397.8	2547.1 ug/L	2547.1 ppb	09:44:39
3	Sn 189.927†	2782.0	3006.8	505.16 ug/L	505.16 ppb	09:44:59
3	Ti 334.940†	294743.9	319986.8	496.64 ug/L	496.64 ppb	09:44:39
3	Tl 190.801†	1547.2	1712.1	502.03 ug/L	502.03 ppb	09:44:59
3	U 409.014†	14212.4	17441.9	493.92 ug/L	493.92 ppb	09:44:39
3	V 292.402†	69320.7	76330.9	505.55 ug/L	505.55 ppb	09:44:39
3	Zn 213.857†	52978.6	56276.4	504.39 ug/L	504.39 ppb	09:44:39
3	SiO2†	77067.4	82855.7	5410.7 ug/L	5410.7 ppb	09:45:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	805340.9	92.326 %	1.0247			1.11%
Sc Radial	4710.3	88.7 %	0.89			1.00%
Y 371.029	666037.2	90.804 %	0.8676			0.96%
Y RADIAL	5008.9	88.30 %	0.637			0.72%
Ag 328.068†	110469.6	494.69 ug/L	6.373	494.69 ppb	6.373	1.29%
QC value within limits for Ag 328.068 Recovery = 98.94%						
Al 396.153Radial†	7049.2	5115.1 ug/L	19.37	5115.1 ppb	19.37	0.38%
QC value within limits for Al 396.153Radial Recovery = 102.30%						
As 188.979†	1230.9	504.08 ug/L	10.800	504.08 ppb	10.800	2.14%
QC value within limits for As 188.979 Recovery = 100.82%						
B 249.677†	22496.9	488.19 ug/L	7.119	488.19 ppb	7.119	1.46%
QC value within limits for B 249.677 Recovery = 97.64%						
Ba 233.527†	66541.0	501.66 ug/L	5.515	501.66 ppb	5.515	1.10%
QC value within limits for Ba 233.527 Recovery = 100.33%						
Be 313.107†	1394711.2	496.44 ug/L	0.312	496.44 ppb	0.312	0.06%
QC value within limits for Be 313.107 Recovery = 99.29%						
Ca 317.933Radial†	3389.8	5151.6 ug/L	70.11	5151.6 ppb	70.11	1.36%

QC value within limits for Ca 317.933Radial Recovery = 103.03%							
Cd 226.502†	47364.3	501.47 ug/L	6.137	501.47 ppb	6.137	1.22%	
QC value within limits for Cd 226.502 Recovery = 100.29%							
Co 228.616†	25590.4	502.15 ug/L	6.120	502.15 ppb	6.120	1.22%	
QC value within limits for Co 228.616 Recovery = 100.43%							
Cr 267.716†	46709.9	499.75 ug/L	6.048	499.75 ppb	6.048	1.21%	
QC value within limits for Cr 267.716 Recovery = 99.95%							
Cu 324.752†	171022.9	496.05 ug/L	7.043	496.05 ppb	7.043	1.42%	
QC value within limits for Cu 324.752 Recovery = 99.21%							
Fe 238.204 Radial†	627.5	5188.4 ug/L	41.79	5188.4 ppb	41.79	0.81%	
QC value within limits for Fe 238.204 Radial Recovery = 103.77%							
K 766.490 Radial†	29091.6	5263.2 ug/L	3.87	5263.2 ppb	3.87	0.07%	
QC value within limits for K 766.490 Radial Recovery = 105.26%							
Mg 279.077 IEC†	169.9	5312.1 ug/L	38.49	5312.1 ppb	38.49	0.72%	
QC value within limits for Mg 279.077 IEC Recovery = 106.24%							
Mn 257.610†	472362.7	500.10 ug/L	0.827	500.10 ppb	0.827	0.17%	
QC value within limits for Mn 257.610 Recovery = 100.02%							
Mo 202.031†	7465.3	504.49 ug/L	7.717	504.49 ppb	7.717	1.53%	
QC value within limits for Mo 202.031 Recovery = 100.90%							
Na 589.592 Radial†	34817.2	10146 ug/L	26.7	10146 ppb	26.7	0.26%	
QC value within limits for Na 589.592 Radial Recovery = 101.46%							
Ni 231.604†	21057.8	500.95 ug/L	5.906	500.95 ppb	5.906	1.18%	
QC value within limits for Ni 231.604 Recovery = 100.19%							
P 214.914†	4353.5	2409.4 ug/L	40.83	2409.4 ppb	40.83	1.69%	
QC value within limits for P 214.914 Recovery = 96.38%							
Pb 220.353†	4313.8	504.84 ug/L	8.130	504.84 ppb	8.130	1.61%	
QC value within limits for Pb 220.353 Recovery = 100.97%							
S 181.975 Axial†	761.1	1013.7 ug/L	12.38	1013.7 ppb	12.38	1.22%	
QC value within limits for S 181.975 Axial Recovery = 101.37%							
Sb 206.836†	1497.1	513.26 ug/L	8.258	513.26 ppb	8.258	1.61%	
QC value within limits for Sb 206.836 Recovery = 102.65%							
Se 196.026†	828.2	522.71 ug/L	11.678	522.71 ppb	11.678	2.23%	
QC value within limits for Se 196.026 Recovery = 104.54%							
Si 251.611†	82866.7	2530.9 ug/L	34.95	2530.9 ppb	34.95	1.38%	
QC value within limits for Si 251.611 Recovery = 101.23%							
Sn 189.927†	3022.1	507.75 ug/L	8.415	507.75 ppb	8.415	1.66%	
QC value within limits for Sn 189.927 Recovery = 101.55%							
Sr 421.552†	81747.4	516.37 ug/L	1.125	516.37 ppb	1.125	0.22%	
QC value within limits for Sr 421.552 Recovery = 103.27%							
Ti 334.940†	318167.7	493.82 ug/L	6.153	493.82 ppb	6.153	1.25%	
QC value within limits for Ti 334.940 Recovery = 98.76%							
Tl 190.801†	1721.1	504.62 ug/L	8.499	504.62 ppb	8.499	1.68%	
QC value within limits for Tl 190.801 Recovery = 100.92%							
U 409.014†	17385.4	492.31 ug/L	6.992	492.31 ppb	6.992	1.42%	
QC value within limits for U 409.014 Recovery = 98.46%							
V 292.402†	75970.1	503.21 ug/L	5.404	503.21 ppb	5.404	1.07%	
QC value within limits for V 292.402 Recovery = 100.64%							
Zn 213.857†	55910.9	501.11 ug/L	6.098	501.11 ppb	6.098	1.22%	
QC value within limits for Zn 213.857 Recovery = 100.22%							
SiO2†	82838.6	5409.5 ug/L	58.10	5409.5 ppb	58.10	1.07%	
QC value within limits for SiO2 Recovery = 101.16%							
All analyte(s) passed QC.							

Sequence No.: 7

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/14/2010 09:47:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4976.6	4976.6	93.7 %		09:49:17
1	Y RADIAL	5327.9	5327.9	93.93 %		09:49:17
1	Al 396.153Radial†	-18.0	-2.4	-1.7928 ug/L	-1.7928 ppb	09:49:17
1	Ca 317.933Radial†	12.4	-8.4	-12.704 ug/L	-12.704 ppb	09:49:37
1	Fe 238.204 Radial†	11.1	1.7	14.117 ug/L	14.117 ppb	09:49:37
1	K 766.490 Radial†	2810.1	350.0	63.409 ug/L	63.409 ppb	09:49:17
1	Mg 279.077 IEC†	3.4	0.4	11.979 ug/L	11.979 ppb	09:49:37
1	Na 589.592 Radial†	-1557.8	-45.3	-13.205 ug/L	-13.205 ppb	09:49:17
1	Sr 421.552†	30.9	17.2	0.1089 ug/L	0.1089 ppb	09:49:17
1	Sc 361.383	812708.8	812708.8	93.171 %		09:50:34
1	Y 371.029	685219.7	685219.7	93.419 %		09:50:34
1	Ag 328.068†	556.3	217.8	0.9739 ug/L	0.9739 ppb	09:50:34
1	As 188.979†	-21.6	0.3	0.1031 ug/L	0.1031 ppb	09:50:54
1	B 249.677†	-413.8	192.7	4.1987 ug/L	4.1987 ppb	09:50:54
1	Ba 233.527†	-10.5	-2.5	-0.0190 ug/L	-0.0190 ppb	09:50:54
1	Be 313.107†	-4242.8	-229.3	-0.0819 ug/L	-0.0819 ppb	09:50:34
1	Cd 226.502†	-186.6	2.3	0.0226 ug/L	0.0226 ppb	09:50:54
1	Co 228.616†	-75.8	-2.9	-0.0559 ug/L	-0.0559 ppb	09:50:54
1	Cr 267.716†	92.2	25.7	0.2752 ug/L	0.2752 ppb	09:50:54
1	Cu 324.752†	6346.6	265.8	0.7727 ug/L	0.7727 ppb	09:50:34
1	Mn 257.610†	427.2	-21.8	-0.0222 ug/L	-0.0222 ppb	09:50:54
1	Mo 202.031†	21.9	2.9	0.1979 ug/L	0.1979 ppb	09:50:54
1	Ni 231.604†	93.3	5.9	0.1405 ug/L	0.1405 ppb	09:50:54
1	P 214.914†	217.3	21.7	12.328 ug/L	12.328 ppb	09:50:54
1	Pb 220.353†	-60.1	2.8	0.3263 ug/L	0.3263 ppb	09:50:54
1	S 181.975 Axial†	44.1	2.8	3.6982 ug/L	3.6982 ppb	09:50:54
1	Sb 206.836†	38.2	11.8	3.8960 ug/L	3.8960 ppb	09:50:54
1	Se 196.026†	-32.8	-11.1	-6.6965 ug/L	-6.6965 ppb	09:50:54
1	Si 251.611†	441.8	30.8	0.9391 ug/L	0.9391 ppb	09:50:54
1	Sn 189.927†	1.6	1.0	0.1618 ug/L	0.1618 ppb	09:50:54
1	Ti 334.940†	-1394.7	-146.5	-0.2295 ug/L	-0.2295 ppb	09:50:34
1	Tl 190.801†	-27.7	9.8	2.8438 ug/L	2.8438 ppb	09:50:54
1	U 409.014†	-1996.0	-64.9	-1.8465 ug/L	-1.8465 ppb	09:50:34
1	V 292.402†	-1347.2	-55.0	-0.3618 ug/L	-0.3618 ppb	09:50:34
1	Zn 213.857†	950.9	23.9	0.2128 ug/L	0.2128 ppb	09:50:54
1	SiO2†	454.1	28.5	1.8610 ug/L	1.8610 ppb	09:51:50
2	Sc Radial	4925.4	4925.4	92.8 %		09:49:42
2	Y RADIAL	5248.5	5248.5	92.53 %		09:49:42
2	Al 396.153Radial†	7.0	24.3	17.669 ug/L	17.669 ppb	09:49:42
2	Ca 317.933Radial†	14.2	-6.3	-9.5525 ug/L	-9.5525 ppb	09:50:02
2	Fe 238.204 Radial†	9.4	-0.1	-0.5054 ug/L	-0.5054 ppb	09:50:02
2	K 766.490 Radial†	2843.9	417.5	75.643 ug/L	75.643 ppb	09:49:42
2	Mg 279.077 IEC†	3.6	0.7	20.431 ug/L	20.431 ppb	09:50:02
2	Na 589.592 Radial†	-1561.6	-66.6	-19.419 ug/L	-19.419 ppb	09:49:42
2	Sr 421.552†	28.3	14.8	0.0936 ug/L	0.0936 ppb	09:49:42
2	Sc 361.383	812572.1	812572.1	93.155 %		09:50:59
2	Y 371.029	683464.0	683464.0	93.180 %		09:50:59
2	Ag 328.068†	549.5	210.6	0.9355 ug/L	0.9355 ppb	09:50:59
2	As 188.979†	-19.1	3.0	1.2016 ug/L	1.2016 ppb	09:51:19
2	B 249.677†	-414.6	191.7	4.1793 ug/L	4.1793 ppb	09:51:19
2	Ba 233.527†	-0.2	8.6	0.0629 ug/L	0.0629 ppb	09:51:19
2	Be 313.107†	-4272.9	-262.4	-0.0937 ug/L	-0.0937 ppb	09:50:59
2	Cd 226.502†	-181.3	8.0	0.0842 ug/L	0.0842 ppb	09:51:19
2	Co 228.616†	-73.8	-0.8	-0.0135 ug/L	-0.0135 ppb	09:51:19
2	Cr 267.716†	82.5	15.3	0.1634 ug/L	0.1634 ppb	09:51:19
2	Cu 324.752†	6331.9	251.1	0.7295 ug/L	0.7295 ppb	09:50:59
2	Mn 257.610†	412.1	-38.0	-0.0411 ug/L	-0.0411 ppb	09:51:19
2	Mo 202.031†	34.0	15.9	1.0733 ug/L	1.0733 ppb	09:51:19
2	Ni 231.604†	86.2	-1.7	-0.0398 ug/L	-0.0398 ppb	09:51:19

2	P 214.914†	213.9	18.1	10.294 ug/L	10.294 ppb	09:51:19
2	Pb 220.353†	-69.5	-7.3	-0.8413 ug/L	-0.8413 ppb	09:51:19
2	S 181.975 Axial†	38.3	-3.4	-4.5023 ug/L	-4.5023 ppb	09:51:19
2	Sb 206.836†	35.0	8.4	2.7920 ug/L	2.7920 ppb	09:51:19
2	Se 196.026†	-28.2	-6.2	-3.7504 ug/L	-3.7504 ppb	09:51:19
2	Si 251.611†	444.7	33.9	1.0244 ug/L	1.0244 ppb	09:51:19
2	Sn 189.927†	3.4	2.9	0.4790 ug/L	0.4790 ppb	09:51:19
2	Ti 334.940†	-1380.8	-131.9	-0.2070 ug/L	-0.2070 ppb	09:50:59
2	Tl 190.801†	-28.2	9.2	2.6820 ug/L	2.6820 ppb	09:51:19
2	U 409.014†	-1999.3	-68.8	-1.9552 ug/L	-1.9552 ppb	09:50:59
2	V 292.402†	-1402.4	-114.5	-0.7363 ug/L	-0.7363 ppb	09:50:59
2	Zn 213.857†	958.1	31.8	0.2870 ug/L	0.2870 ppb	09:51:19
2	SiO2†	474.1	50.0	3.2451 ug/L	3.2451 ppb	09:51:55
3	Sc Radial	4921.8	4921.8	92.7 %		09:50:07
3	Y RADIAL	5248.0	5248.0	92.52 %		09:50:07
3	Al 396.153Radial†	-9.2	6.8	4.9829 ug/L	4.9829 ppb	09:50:07
3	Ca 317.933Radial†	16.1	-4.2	-6.3588 ug/L	-6.3588 ppb	09:50:27
3	Fe 238.204 Radial†	10.2	0.8	6.5718 ug/L	6.5718 ppb	09:50:27
3	K 766.490 Radial†	2642.9	202.9	36.773 ug/L	36.773 ppb	09:50:07
3	Mg 279.077 IEC†	3.8	0.9	27.798 ug/L	27.798 ppb	09:50:27
3	Na 589.592 Radial†	-1656.8	-170.6	-49.716 ug/L	-49.716 ppb	09:50:07
3	Sr 421.552†	-7.3	-23.6	-0.1489 ug/L	-0.1489 ppb	09:50:07
3	Sc 361.383	818014.3	818014.3	93.779 %		09:51:24
3	Y 371.029	688370.1	688370.1	93.849 %		09:51:24
3	Ag 328.068†	509.3	163.8	0.7331 ug/L	0.7331 ppb	09:51:24
3	As 188.979†	-26.0	-4.3	-1.7513 ug/L	-1.7513 ppb	09:51:44
3	B 249.677†	-413.4	195.9	4.2704 ug/L	4.2704 ppb	09:51:44
3	Ba 233.527†	8.3	17.7	0.1320 ug/L	0.1320 ppb	09:51:44
3	Be 313.107†	-4290.0	-250.2	-0.0891 ug/L	-0.0891 ppb	09:51:24
3	Cd 226.502†	-191.4	-1.5	-0.0171 ug/L	-0.0171 ppb	09:51:44
3	Co 228.616†	-81.7	-8.7	-0.1697 ug/L	-0.1697 ppb	09:51:44
3	Cr 267.716†	58.1	-11.2	-0.1185 ug/L	-0.1185 ppb	09:51:44
3	Cu 324.752†	6193.7	58.6	0.1731 ug/L	0.1731 ppb	09:51:24
3	Mn 257.610†	408.0	-45.4	-0.0485 ug/L	-0.0485 ppb	09:51:44
3	Mo 202.031†	20.1	0.9	0.0625 ug/L	0.0625 ppb	09:51:44
3	Ni 231.604†	86.9	-1.6	-0.0378 ug/L	-0.0378 ppb	09:51:44
3	P 214.914†	219.9	23.0	13.194 ug/L	13.194 ppb	09:51:44
3	Pb 220.353†	-46.0	18.2	2.1279 ug/L	2.1279 ppb	09:51:44
3	S 181.975 Axial†	43.6	2.0	2.6815 ug/L	2.6815 ppb	09:51:44
3	Sb 206.836†	35.3	8.4	2.7837 ug/L	2.7837 ppb	09:51:44
3	Se 196.026†	-36.1	-14.4	-8.7183 ug/L	-8.7183 ppb	09:51:44
3	Si 251.611†	447.9	34.2	1.0456 ug/L	1.0456 ppb	09:51:44
3	Sn 189.927†	5.6	5.2	0.8760 ug/L	0.8760 ppb	09:51:44
3	Ti 334.940†	-1336.3	-74.6	-0.1166 ug/L	-0.1166 ppb	09:51:24
3	Tl 190.801†	-30.7	6.8	1.9683 ug/L	1.9683 ppb	09:51:44
3	U 409.014†	-2117.6	-180.6	-5.1337 ug/L	-5.1337 ppb	09:51:24
3	V 292.402†	-1373.3	-73.4	-0.4891 ug/L	-0.4891 ppb	09:51:24
3	Zn 213.857†	949.8	16.1	0.1446 ug/L	0.1446 ppb	09:51:44
3	SiO2†	452.0	23.1	1.5098 ug/L	1.5098 ppb	09:52:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814431.7	93.369 %	0.3558			0.38%
Sc Radial	4941.3	93.0 %	0.58			0.62%
Y 371.029	685684.6	93.483 %	0.3389			0.36%
Y RADIAL	5274.8	92.99 %	0.811			0.87%
Ag 328.068†	197.4	0.8808 ug/L	0.12935	0.8808 ppb	0.12935	14.68%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.6	6.9531 ug/L	9.87948	6.9531 ppb	9.87948	142.09%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.4	-0.1489 ug/L	1.49250	-0.1489 ppb	1.49250	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	193.4	4.2162 ug/L	0.04799	4.2162 ppb	0.04799	1.14%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.9	0.0586 ug/L	0.07556	0.0586 ppb	0.07556	128.88%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-247.3	-0.0882 ug/L	0.00591	-0.0882 ppb	0.00591	6.69%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.3	-9.5383 ug/L	3.17245	-9.5383 ppb	3.17245	33.26%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	2.9	0.0299 ug/L	0.05102	0.0299 ppb	0.05102 170.61%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-4.1	-0.0797 ug/L	0.08078	-0.0797 ppb	0.08078 101.39%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	9.9	0.1067 ug/L	0.20286	0.1067 ppb	0.20286 190.14%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	191.8	0.5584 ug/L	0.33437	0.5584 ppb	0.33437 59.88%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.8	6.7278 ug/L	7.31235	6.7278 ppb	7.31235 108.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	323.5	58.608 ug/L	19.8748	58.608 ppb	19.8748 33.91%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.6	20.069 ug/L	7.9155	20.069 ppb	7.9155 39.44%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-35.1	-0.0373 ug/L	0.01356	-0.0373 ppb	0.01356 36.39%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	6.6	0.4446 ug/L	0.54872	0.4446 ppb	0.54872 123.43%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-94.2	-27.447 ug/L	19.5343	-27.447 ppb	19.5343 71.17%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	0.9	0.0210 ug/L	0.10352	0.0210 ppb	0.10352 492.76%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	20.9	11.939 ug/L	1.4886	11.939 ppb	1.4886 12.47%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	4.6	0.5377 ug/L	1.49584	0.5377 ppb	1.49584 278.21%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.5	0.6258 ug/L	4.47011	0.6258 ppb	4.47011 714.29%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	9.5	3.1572 ug/L	0.63976	3.1572 ppb	0.63976 20.26%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-10.5	-6.3884 ug/L	2.49822	-6.3884 ppb	2.49822 39.11%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	32.9	1.0030 ug/L	0.05638	1.0030 ppb	0.05638 5.62%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	3.0	0.5056 ug/L	0.35787	0.5056 ppb	0.35787 70.78%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	2.8	0.0179 ug/L	0.14461	0.0179 ppb	0.14461 808.99%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-117.7	-0.1843 ug/L	0.05974	-0.1843 ppb	0.05974 32.41%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	8.6	2.4980 ug/L	0.46582	2.4980 ppb	0.46582 18.65%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-104.8	-2.9785 ug/L	1.86730	-2.9785 ppb	1.86730 62.69%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-81.0	-0.5291 ug/L	0.19044	-0.5291 ppb	0.19044 36.00%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	23.9	0.2148 ug/L	0.07122	0.2148 ppb	0.07122 33.16%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	33.9	2.2053 ug/L	0.91749	2.2053 ppb	0.91749 41.60%
QC value within limits for SiO2 Recovery = Not calculated					
All analyte(s) passed QC.					

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, January 12, 2010 12:24:10

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\090811\Sample.353

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	1051.2	1051.239	35.453	3.4
Mg	24.0	18904.9	18904.902	185.370	1.0
Co	58.9	47490.4	47490.409	341.590	0.7
Rh	102.9	85416.4	85416.398	115.652	0.1
In	114.9	113193.7	113193.724	1278.379	1.1
Pb	208.0	40445.6	40445.585	638.544	1.6
[> Ba	137.9	92298.6	92298.566	995.814	1.1
[Ba++	69.0	1839.6	0.020	0.001	3.0
[> Ce	139.9	109676.8	109676.817	656.521	0.6
[CeO	155.9	2520.3	0.023	0.000	1.6
Bkgd	220.0	6.9	6.900	1.140	16.5

Current Optimization File Data

Current Value	Description
0.84	Nebulizer Gas Flow
6.00	Lens Voltage
1000.00	ICP RF Power
-1875.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
50.00	Discriminator Threshold
-2.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	7.0	1030.0
Co	59	17	7.8	34014.1
In	115	17	9.3	81131.4

ICPMS #4 TUNING REPORT

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	609	2060	0.638
Be	9.0	9.0	2045	2045	0.664
Mg	24.0	24.0	5679	2075	0.602
Mg	25.0	25.0	5941	2080	0.623
Mg	26.0	26.0	6146	2085	0.606
Co	58.9	58.9	14170	2140	0.622
Rh	102.9	102.9	24867	2230	0.641
In	114.9	115.0	27788	2255	0.638
Ce	139.9	139.9	33853	2310	0.615
Pb	206.0	206.0	49932	2500	0.644
Pb	207.0	207.0	50101	2380	0.626
Pb	208.0	208.0	50448	2570	0.605
U	238.1	238.1	57704	2510	0.666

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, January 12, 2010 19:34:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\Blank.080

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li 7		ug/L		24	
Be 9		ug/L		4	
B 11		ug/L		82	
Na 23		ug/L		74871	
Mg 24		ug/L		2667	
Al 27		ug/L		3668	
P 31		ug/L		3279	
K 39		ug/L		508917	
Ca 43		ug/L		741	
> Sc 45		ug/L		212614	
Ti 47		ug/L		277	
V 51		ug/L		-4301	
Cr 52		ug/L		1072	
Cr 53		ug/L		280173	
Mn 55		ug/L		1384	
Fe 57		ug/L		4097	
Co 59		ug/L		152	
Ni 60		ug/L		78	
Cu 63		ug/L		204	
Cu 65		ug/L		120	
Zn 66		ug/L		107	
Zn 67		ug/L		14734	
Zn 68		ug/L		1387	
> Ge 74		ug/L		153711	
As 75		ug/L		407	
Se 77		ug/L		10443	
Se 82		ug/L		-26	
Kr 83		ug/L		76	
Sr 88		ug/L		143	
Y 89		ug/L		22	
Zr 90		ug/L		268	
Mo 98		ug/L		41	
Ag 107		ug/L		72	
Cd 111		ug/L		18	
Cd 114		ug/L		26	
> In 115		ug/L		92515	
Sn 120		ug/L		186	
Sb 121		ug/L		243	
Sb 123		ug/L		231	
Ba 135		ug/L		19	
Ba 137		ug/L		24	
Ho 165		ug/L		9	
> Lu 175		ug/L		78385	
Tl 205		ug/L		312	
Pb 208		ug/L		312	
Bi 209		ug/L		31	
Th 232		ug/L		380	
U 238		ug/L		152	

Sample ID: Blank

Report Date/Time: Tuesday, January 12, 2010 19:37:18

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	0.9993
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Simple Linear	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Blank

Report Date/Time: Tuesday, January 12, 2010 19:37:18

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
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: Blank

Report Date/Time: Tuesday, January 12, 2010 19:37:18

Page 3

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, January 12, 2010 19:40:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\Standard 1.081

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	3.439	2081	0.010
Be	9	10.000	ug/L	5.272	708	0.003
B	11	20.000	ug/L	1.822	1458	0.006
Na	23	1000.000	ug/L	4.813	1594763	7.175
Mg	24	1000.000	ug/L	3.725	1107713	5.216
Al	27	1000.000	ug/L	2.364	1553837	7.318
P	31	1000.000	ug/L	0.904	83293	0.378
K	39	1000.000	ug/L	4.754	3245195	12.925
Ca	43	1000.000	ug/L	2.584	6162	0.026
> Sc	45		ug/L		211851	211850.756
Ti	47	10.000	ug/L	1.948	2831	0.012
V	51	10.000	ug/L	39.675	22430	0.126
Cr	52	10.000	ug/L	1.367	25165	0.114
Cr	53		ug/L		261987	-0.081
Mn	55	10.000	ug/L	1.316	41332	0.189
Fe	57	1000.000	ug/L	1.582	83323	0.374
Co	59	10.000	ug/L	0.317	29451	0.138
Ni	60	10.000	ug/L	1.650	6156	0.029
Cu	63		ug/L		13942	0.065
Cu	65	10.000	ug/L	2.663	6666	0.031
Zn	66	10.000	ug/L	1.625	3708	0.023
Zn	67		ug/L		14164	-0.004
Zn	68		ug/L		3741	0.015
> Ge	74		ug/L		154058	154058.178
As	75	10.000	ug/L	14.805	4901	0.029
Se	77		ug/L		9749	-0.005
Se	82	10.000	ug/L	4.828	381	0.003
Kr	83		ug/L		74	-0.000
Sr	88	10.000	ug/L	1.041	60761	0.654
Y	89		ug/L		17	-0.000
Zr	90	10.000	ug/L	0.397	32311	0.346
Mo	98	10.000	ug/L	0.905	13867	0.149
Ag	107	10.000	ug/L	1.507	22367	0.241
Cd	111	10.000	ug/L	2.109	5188	0.056
Cd	114		ug/L		11983	0.129
> In	115		ug/L		92658	92658.276
Sn	120	10.000	ug/L	0.448	23412	0.251
Sb	121	10.000	ug/L	6.544	16878	0.179
Sb	123		ug/L		13056	0.138
Ba	135		ug/L		5323	0.068
Ba	137	10.000	ug/L	0.478	9222	0.117
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		78560	78559.902
Tl	205	10.000	ug/L	1.386	16509	0.206
Pb	208	10.000	ug/L	0.276	48528	0.614
Bi	209		ug/L		44	0.000
Th	232	10.000	ug/L	1.048	60813	0.769
U	238	10.000	ug/L	0.756	64989	0.825

Sample ID: Standard 1

Report Date/Time: Tuesday, January 12, 2010 19:43:26

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Standard 1

Report Date/Time: Tuesday, January 12, 2010 19:43:26

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
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: Standard 1

Report Date/Time: Tuesday, January 12, 2010 19:43:26

Page 3

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, January 12, 2010 19:46:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\Standard 2.082

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.020	ug/L	2.719	20665	0.099
Be	9	100.002	ug/L	0.461	6946	0.033
B	11	200.023	ug/L	2.941	13774	0.066
Na	23	10007.619	ug/L	2.190	16267610	77.726
Mg	24	9997.169	ug/L	2.513	10566180	50.712
Al	27	10002.742	ug/L	3.856	15680139	75.259
P	31	9997.645	ug/L	1.293	771905	3.690
K	39	9993.113	ug/L	1.002	25676267	120.835
Ca	43	10000.141	ug/L	0.893	54136	0.256
> Sc	45		ug/L		208347	208346.513
Ti	47	100.014	ug/L	0.575	25762	0.122
V	51	99.846	ug/L	2.701	222648	1.089
Cr	52	99.986	ug/L	1.301	234705	1.122
Cr	53		ug/L		301357	0.129
Mn	55	99.974	ug/L	1.706	384211	1.838
Fe	57	9998.552	ug/L	1.705	772031	3.687
Co	59	99.973	ug/L	1.617	280523	1.346
Ni	60	99.977	ug/L	1.104	58505	0.280
Cu	63		ug/L		131001	0.628
Cu	65	99.983	ug/L	0.498	63415	0.304
Zn	66	99.952	ug/L	2.127	33467	0.223
Zn	67		ug/L		20527	0.041
Zn	68		ug/L		25337	0.160
> Ge	74		ug/L		149654	149654.480
As	75	99.921	ug/L	0.934	40825	0.270
Se	77		ug/L		12661	0.017
Se	82	99.980	ug/L	2.608	3852	0.026
Kr	83		ug/L		83	0.000
Sr	88	100.004	ug/L	0.516	589834	6.570
Y	89		ug/L		72	0.001
Zr	90	100.021	ug/L	0.550	317364	3.533
Mo	98	100.028	ug/L	0.346	137882	1.536
Ag	107	99.981	ug/L	0.861	211992	2.361
Cd	111	100.009	ug/L	0.681	50554	0.563
Cd	114		ug/L		116672	1.300
> In	115		ug/L		89756	89756.399
Sn	120	100.009	ug/L	0.934	227195	2.529
Sb	121	100.101	ug/L	2.144	179582	1.998
Sb	123		ug/L		137684	1.532
Ba	135		ug/L		52486	0.669
Ba	137	99.979	ug/L	1.739	89959	1.146
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		78473	78473.077
Tl	205	99.971	ug/L	1.025	157453	2.003
Pb	208	99.982	ug/L	1.448	473284	6.028
Bi	209		ug/L		154	0.002
Th	232	100.010	ug/L	1.812	610126	7.771
U	238	99.985	ug/L	2.482	637879	8.128

Sample ID: Standard 2

Report Date/Time: Tuesday, January 12, 2010 19:49:35

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	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: Standard 2

Report Date/Time: Tuesday, January 12, 2010 19:49:35

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, January 12, 2010 19:52:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 1.083

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.087	ug/L	1.838	10678	0.051
Be	9	50.233	ug/L	2.702	3527	0.017
B	11	102.788	ug/L	0.536	7192	0.034
Na	23	5025.590	ug/L	5.431	8295928	39.032
Mg	24	5043.354	ug/L	3.298	5387809	25.583
Al	27	5177.163	ug/L	6.446	8207944	38.952
P	31	4995.787	ug/L	1.422	391449	1.844
K	39	5230.757	ug/L	2.055	13818824	63.249
Ca	43	4916.069	ug/L	1.821	27272	0.126
> Sc	45		ug/L		210539	210539.362
Ti	47	50.040	ug/L	0.276	13163	0.061
V	51	48.523	ug/L	3.031	107158	0.529
Cr	52	50.492	ug/L	0.397	120302	0.566
Cr	53		ug/L		296209	0.090
Mn	55	51.333	ug/L	0.962	200039	0.944
Fe	57	4942.137	ug/L	1.390	387679	1.822
Co	59	49.893	ug/L	1.250	141550	0.672
Ni	60	51.153	ug/L	0.463	30290	0.144
Cu	63		ug/L		67046	0.317
Cu	65	49.844	ug/L	1.254	32006	0.151
Zn	66	51.940	ug/L	0.549	17588	0.116
Zn	67		ug/L		18103	0.024
Zn	68		ug/L		13970	0.084
> Ge	74		ug/L		150866	150865.725
As	75	48.058	ug/L	1.041	20003	0.130
Se	77		ug/L		11467	0.008
Se	82	49.910	ug/L	3.693	1927	0.013
Kr	83		ug/L		73	-0.000
Sr	88	51.046	ug/L	0.597	303275	3.354
Y	89		ug/L		58	0.000
Zr	90	49.016	ug/L	0.246	156769	1.731
Mo	98	48.486	ug/L	0.459	67331	0.744
Ag	107	52.172	ug/L	0.890	111447	1.232
Cd	111	50.240	ug/L	1.478	25584	0.283
Cd	114		ug/L		58820	0.650
> In	115		ug/L		90395	90395.021
Sn	120	50.447	ug/L	0.669	115509	1.276
Sb	121	49.441	ug/L	2.062	89462	0.987
Sb	123		ug/L		68483	0.755
Ba	135		ug/L		26355	0.339
Ba	137	50.887	ug/L	0.535	45368	0.583
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		77723	77722.642
Tl	205	49.229	ug/L	0.394	76955	0.986
Pb	208	51.411	ug/L	0.973	241198	3.100
Bi	209		ug/L		65	0.000
Th	232	52.303	ug/L	0.821	316244	4.064
U	238	53.426	ug/L	1.996	337679	4.343

Sample ID: QC Std 1

Report Date/Time: Tuesday, January 12, 2010 19:55:45

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 1

Report Date/Time: Tuesday, January 12, 2010 19:55:45

Page 2

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	Li	7	102.173								
|	Be	9	100.467								
|	B	11	102.788								
|	Na	23	100.512								
|	Mg	24	100.867								
|	Al	27	102.518								
|	P	31	99.916								
|	K	39	104.615								
|	Ca	43	98.321								
>	Sc	45			99.0						
|	Ti	47	100.079								
|	V	51	97.046								
|	Cr	52	100.984								
|	Cr	53									
|	Mn	55	102.666								
|	Fe	57	98.843								
|	Co	59	99.786								
|	Ni	60	102.305								
|	Cu	63									
|	Cu	65	99.688								
[	Zn	66	103.879								
|	Zn	67									
|	Zn	68									
>	Ge	74			98.1						
|	As	75	96.115								
|	Se	77									
|	Se	82	99.820								
|	Kr	83									
[	Sr	88	102.092								
|	Y	89									
|	Zr	90	98.032								
|	Mo	98	96.971								
|	Ag	107	104.344								
|	Cd	111	100.479								
|	Cd	114									
>	In	115			97.7						
|	Sn	120	100.895								
|	Sb	121	98.883								
|	Sb	123									
[	Ba	135									
|	Ba	137	101.774								
|	Ho	165									
>	Lu	175			99.2						
|	Tl	205	98.457								
|	Pb	208	102.822								
|	Bi	209									
|	Th	232	104.605								
[	U	238	106.852								

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, January 12, 2010 19:55:45

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, January 12, 2010 19:59:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 2.084

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.005	ug/L	601.999	24	0.000
Be	9	0.010	ug/L	399.728	5	0.000
B	11	3.786	ug/L	16.332	341	0.001
Na	23	-6.314	ug/L	91.659	63476	-0.049
Mg	24	-0.905	ug/L	59.736	1667	-0.005
Al	27	-0.175	ug/L	558.505	3334	-0.001
P	31	3.401	ug/L	52.103	3494	0.001
K	39	3.687	ug/L	423.844	510661	0.045
Ca	43	5.344	ug/L	31.574	759	0.000
> Sc	45		ug/L		209530	209529.891
Ti	47	0.040	ug/L	142.133	284	0.000
V	51	-3.344	ug/L	66.393	-11860	-0.036
Cr	52	-0.273	ug/L	46.352	414	-0.003
Cr	53		ug/L		266889	-0.044
Mn	55	-0.004	ug/L	281.471	1347	-0.000
Fe	57	1.369	ug/L	80.381	4143	0.001
Co	59	0.013	ug/L	44.095	186	0.000
Ni	60	-0.015	ug/L	33.404	68	-0.000
Cu	63		ug/L		210	0.000
Cu	65	-0.010	ug/L	227.380	111	-0.000
Zn	66	0.004	ug/L	359.290	107	0.000
Zn	67		ug/L		14288	-0.002
Zn	68		ug/L		1306	-0.000
> Ge	74		ug/L		152204	152204.399
As	75	-0.274	ug/L	293.126	292	-0.001
Se	77		ug/L		9260	-0.007
Se	82	0.123	ug/L	494.887	-21	0.000
Kr	83		ug/L		77	0.000
Sr	88	0.003	ug/L	59.143	160	0.000
Y	89		ug/L		21	-0.000
Zr	90	0.154	ug/L	19.483	767	0.005
Mo	98	0.048	ug/L	26.068	108	0.001
Ag	107	0.020	ug/L	28.921	116	0.000
Cd	111	0.007	ug/L	38.521	21	0.000
Cd	114		ug/L		31	0.000
> In	115		ug/L		92020	92020.191
Sn	120	0.142	ug/L	10.905	516	0.004
Sb	121	0.702	ug/L	15.268	1532	0.014
Sb	123		ug/L		1246	0.011
Ba	135		ug/L		20	0.000
Ba	137	0.004	ug/L	116.145	27	0.000
Ho	165		ug/L		7	-0.000
> Lu	175		ug/L		78247	78246.837
Tl	205	0.268	ug/L	25.255	731	0.005
Pb	208	0.005	ug/L	102.924	336	0.000
Bi	209		ug/L		29	-0.000
Th	232	0.197	ug/L	25.061	1577	0.015
U	238	0.009	ug/L	36.481	211	0.001

Sample ID: QC Std 2

Report Date/Time: Tuesday, January 12, 2010 20:01:59

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45		98.5		
|	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		99.0		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115		99.5		
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175		99.8		
|	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: Tuesday, January 12, 2010 20:01:59

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, January 12, 2010 20:05:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 3.085

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.159	ug/L	4.292	2325	0.011
Be	9	0.568	ug/L	11.411	43	0.000
B	11	16.749	ug/L	1.152	1226	0.006
Na	23	256.415	ug/L	6.036	487870	1.991
Mg	24	13.937	ug/L	39.330	17345	0.071
Al	27	37.170	ug/L	8.193	61801	0.280
P	31	58.962	ug/L	2.235	7741	0.022
K	39	348.846	ug/L	10.755	1376440	4.218
Ca	43	210.140	ug/L	1.407	1847	0.005
> Sc	45		ug/L		208187	208186.736
Ti	47	9.152	ug/L	2.197	2603	0.011
V	51	11.033	ug/L	24.482	20822	0.120
Cr	52	10.525	ug/L	1.942	25627	0.118
Cr	53		ug/L		272577	-0.009
Mn	55	5.717	ug/L	0.819	23237	0.105
Fe	57	112.034	ug/L	1.671	12612	0.041
Co	59	1.097	ug/L	1.771	3222	0.015
Ni	60	2.218	ug/L	2.023	1371	0.006
Cu	63		ug/L		1660	0.007
Cu	65	1.149	ug/L	4.021	844	0.003
Zn	66	11.085	ug/L	2.891	3830	0.025
Zn	67		ug/L		14964	0.004
Zn	68		ug/L		3958	0.017
> Ge	74		ug/L		150662	150662.244
As	75	5.179	ug/L	14.897	2506	0.014
Se	77		ug/L		9466	-0.005
Se	82	5.147	ug/L	13.017	176	0.001
Kr	83		ug/L		73	-0.000
Sr	88	10.868	ug/L	0.405	65315	0.714
Y	89		ug/L		62	0.000
Zr	90	1.968	ug/L	4.794	6610	0.070
Mo	98	0.546	ug/L	1.754	805	0.008
Ag	107	1.044	ug/L	1.139	2321	0.025
Cd	111	1.096	ug/L	5.189	581	0.006
Cd	114		ug/L		1278	0.014
> In	115		ug/L		91278	91278.451
Sn	120	5.361	ug/L	1.478	12557	0.136
Sb	121	3.049	ug/L	4.314	5795	0.061
Sb	123		ug/L		4376	0.045
Ba	135		ug/L		1098	0.014
Ba	137	2.181	ug/L	4.530	1937	0.025
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		76568	76568.077
Tl	205	1.112	ug/L	2.424	2011	0.022
Pb	208	2.214	ug/L	1.775	10523	0.133
Bi	209		ug/L		29	-0.000
Th	232	1.105	ug/L	1.906	6947	0.086
U	238	0.228	ug/L	3.355	1569	0.019

Sample ID: QC Std 3

Report Date/Time: Tuesday, January 12, 2010 20:08:10

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	111.588				
|	Be	9	113.622				
|	B	11	111.663				
|	Na	23	102.566				
|	Mg	24	92.912				
|	Al	27	123.900				
|	P	31	117.923				
|	K	39	116.282				
|	Ca	43	105.070				
>	Sc	45		97.9			
|	Ti	47	91.525				
|	V	51	110.326				
|	Cr	52	105.249				
|	Cr	53					
|	Mn	55	114.350				
|	Fe	57	112.034				
|	Co	59	109.680				
|	Ni	60	110.895				
|	Cu	63					
|	Cu	65	114.884				
|	Zn	66	110.852				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.0			
|	As	75	103.579				
|	Se	77					
|	Se	82	102.935				
|	Kr	83					
|	Sr	88	108.682				
|	Y	89					
|	Zr	90	98.407				
|	Mo	98	109.175				
|	Ag	107	104.377				
|	Cd	111	109.650				
|	Cd	114					
>	In	115		98.7			
|	Sn	120	107.214				
|	Sb	121	101.630				
|	Sb	123					
|	Ba	135					
|	Ba	137	109.029				
|	Ho	165					
>	Lu	175		97.7			
|	Tl	205	111.248				
|	Pb	208	110.679				
|	Bi	209					
|	Th	232	110.532				
|	U	238	114.124				

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 3

Report Date/Time: Tuesday, January 12, 2010 20:08:10

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, January 12, 2010 20:11:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 4.086

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li 7	0.160	ug/L	32.472	55	0.000
Be 9	0.056	ug/L	67.174	8	0.000
B 11	1.679	ug/L	4.914	192	0.001
Na 23	97668.875	ug/L	4.963	155408152	758.563
Mg 24	97746.255	ug/L	2.160	101535854	495.830
Al 27	95169.274	ug/L	2.945	146635178	716.042
P 31	99647.533	ug/L	1.567	7534376	36.774
K 39	100664.816	ug/L	4.489	249725469	1217.219
Ca 43	96770.254	ug/L	1.765	508782	2.481
> Sc 45		ug/L		204800	204799.997
Ti 47	1464.975	ug/L	1.141	367299	1.792
V 51	0.385	ug/L	1053.698	-3301	0.004
Cr 52	3.104	ug/L	1.877	8163	0.035
Cr 53		ug/L		233966	-0.175
Mn 55	5.646	ug/L	0.744	22591	0.104
Fe 57	97733.857	ug/L	0.776	7384095	36.037
Co 59	0.325	ug/L	5.492	1042	0.004
Ni 60	3.168	ug/L	1.069	1895	0.009
Cu 63		ug/L		2790	0.013
Cu 65	2.737	ug/L	4.271	1818	0.008
Zn 66	4.430	ug/L	3.505	1513	0.010
Zn 67		ug/L		12671	-0.007
Zn 68		ug/L		1302	0.000
> Ge 74		ug/L		143054	143054.451
As 75	-0.780	ug/L	56.848	77	-0.002
Se 77		ug/L		8432	-0.009
Se 82	-0.345	ug/L	78.078	-37	-0.000
Kr 83		ug/L		116	0.000
Sr 88	1.165	ug/L	2.573	6652	0.077
Y 89		ug/L		186	0.002
Zr 90	0.628	ug/L	48.069	2128	0.022
Mo 98	2067.573	ug/L	0.908	2705436	31.744
Ag 107	0.076	ug/L	4.708	219	0.002
Cd 111	0.425	ug/L	31.777	220	0.002
Cd 114		ug/L		3199	0.037
> In 115		ug/L		85229	85229.265
Sn 120	0.244	ug/L	16.632	696	0.006
Sb 121	0.248	ug/L	7.343	646	0.005
Sb 123		ug/L		539	0.004
Ba 135		ug/L		359	0.004
Ba 137	0.663	ug/L	3.246	610	0.008
Ho 165		ug/L		243	0.003
> Lu 175		ug/L		77257	77257.113
Tl 205	0.001	ug/L	1388.759	309	0.000
Pb 208	0.158	ug/L	3.075	1045	0.010
Bi 209		ug/L		169	0.002
Th 232	0.182	ug/L	35.727	1469	0.014
U 238	-0.017	ug/L	1.244	40	-0.001

Sample ID: QC Std 4

Report Date/Time: Tuesday, January 12, 2010 20:14:21

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 4

Report Date/Time: Tuesday, January 12, 2010 20:14:21

Page 2

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23	97.669			
|	Mg	24	97.746			
|	Al	27	95.169			
|	P	31	99.648			
|	K	39	100.665			
|	Ca	43	96.770			
>	Sc	45		96.3		
|	Ti	47	73.249			
|	V	51				
|	Cr	52	83.886			
|	Cr	53				
|	Mn	55	97.353			
|	Fe	57	97.734			
|	Co	59	129.973			
|	Ni	60	117.349			
|	Cu	63				
|	Cu	65	94.378			
|	Zn	66	123.060			
|	Zn	67				
|	Zn	68				
>	Ge	74		93.1		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88	97.045			
|	Y	89				
|	Zr	90				
|	Mo	98	103.379			
|	Ag	107				
|	Cd	111	106.205			
|	Cd	114				
>	In	115		92.1		
|	Sn	120				
|	Sb	121	247.975			
|	Sb	123				
|	Ba	135				
|	Ba	137	98.914			
|	Ho	165				
>	Lu	175		98.6		
|	Tl	205				
|	Pb	208	79.209			
|	Bi	209				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 4	Ti	47ICSA is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 4
 Report Date/Time: Tuesday, January 12, 2010 20:14:21
 Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, January 12, 2010 20:17:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 5.087

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.670	ug/L	2.958	3964	0.019
Be	9	19.493	ug/L	1.139	1317	0.006
B	11	20.079	ug/L	2.057	1412	0.007
Na	23	98980.825	ug/L	1.365	155561869	768.752
Mg	24	96692.270	ug/L	2.559	99190141	490.483
Al	27	94937.249	ug/L	2.460	144486678	714.296
P	31	99846.316	ug/L	0.924	7455793	36.847
K	39	104134.949	ug/L	6.509	255241112	1259.179
Ca	43	94933.397	ug/L	0.739	492945	2.434
> Sc	45		ug/L		202249	202248.670
Ti	47	1432.711	ug/L	1.079	354724	1.753
V	51	19.596	ug/L	10.640	39109	0.214
Cr	52	23.349	ug/L	1.665	53988	0.262
Cr	53		ug/L		234159	-0.160
Mn	55	25.474	ug/L	0.752	96028	0.468
Fe	57	97875.892	ug/L	0.599	7303048	36.089
Co	59	19.340	ug/L	0.047	52803	0.260
Ni	60	22.423	ug/L	0.222	12796	0.063
Cu	63		ug/L		26504	0.130
Cu	65	21.381	ug/L	1.325	13253	0.065
Zn	66	23.571	ug/L	1.370	7649	0.053
Zn	67		ug/L		13064	-0.005
Zn	68		ug/L		5675	0.030
> Ge	74		ug/L		143564	143563.895
As	75	20.334	ug/L	5.481	8271	0.055
Se	77		ug/L		8716	-0.007
Se	82	21.930	ug/L	4.338	792	0.006
Kr	83		ug/L		103	0.000
Sr	88	21.939	ug/L	0.827	122108	1.441
Y	89		ug/L		183	0.002
Zr	90	21.500	ug/L	2.558	64503	0.759
Mo	98	2075.373	ug/L	2.011	2696323	31.863
Ag	107	19.410	ug/L	2.235	38854	0.458
Cd	111	20.060	ug/L	3.262	9572	0.113
Cd	114		ug/L		24415	0.288
> In	115		ug/L		84637	84636.915
Sn	120	20.457	ug/L	2.252	43949	0.517
Sb	121	21.543	ug/L	2.046	36612	0.430
Sb	123		ug/L		27976	0.328
Ba	135		ug/L		10193	0.133
Ba	137	19.921	ug/L	1.698	17444	0.228
Ho	165		ug/L		235	0.003
> Lu	175		ug/L		76281	76280.541
Tl	205	17.766	ug/L	2.440	27451	0.356
Pb	208	18.869	ug/L	0.764	87079	1.138
Bi	209		ug/L		231	0.003
Th	232	20.269	ug/L	0.676	120504	1.575
U	238	20.472	ug/L	0.465	127099	1.664

Sample ID: QC Std 5

Report Date/Time: Tuesday, January 12, 2010 20:20:32

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7	98.352				
|	Be	9	97.467				
|	B	11	100.394				
|	Na	23	98.981				
|	Mg	24	96.692				
|	Al	27	94.937				
|	P	31	99.846				
|	K	39	104.135				
|	Ca	43	94.933				
>	Sc	45		95.1			
|	Ti	47	71.636				
|	V	51	97.979				
|	Cr	52	98.520				
|	Cr	53					
|	Mn	55	98.736				
|	Fe	57	97.876				
|	Co	59	95.507				
|	Ni	60	98.778				
|	Cu	63					
|	Cu	65	93.365				
[	Zn	66	99.876				
|	Zn	67					
|	Zn	68					
>	Ge	74		93.4			
|	As	75	101.668				
|	Se	77					
|	Se	82	109.651				
|	Kr	83					
[	Sr	88	103.485				
|	Y	89					
|	Zr	90	107.499				
|	Mo	98	103.769				
|	Ag	107	97.052				
|	Cd	111	98.332				
|	Cd	114					
>	In	115		91.5			
|	Sn	120	102.286				
|	Sb	121	107.180				
|	Sb	123					
[	Ba	135					
|	Ba	137	96.375				
|	Ho	165					
>	Lu	175		97.3			
|	Tl	205	88.831				
|	Pb	208	93.411				
|	Bi	209					
|	Th	232	101.344				
|	U	238	102.362				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 5	Ti	47ICSAB is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 5
 Report Date/Time: Tuesday, January 12, 2010 20:20:32
 Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, January 12, 2010 20:23:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 6.088

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li 7	50.949	ug/L	1.785	10598	0.050
|	Be 9	50.167	ug/L	2.931	3506	0.017
|	B 11	98.394	ug/L	3.828	6853	0.032
|	Na 23	4876.489	ug/L	3.042	8007709	37.874
|	Mg 24	5041.892	ug/L	4.358	5364247	25.576
|	Al 27	5003.453	ug/L	2.822	7889026	37.645
|	P 31	5044.353	ug/L	1.971	393207	1.862
|	K 39	5387.745	ug/L	5.081	14157608	65.148
|	Ca 43	4996.329	ug/L	0.254	27569	0.128
>	Sc 45		ug/L		209534	209533.509
|	Ti 47	52.129	ug/L	0.940	13636	0.064
|	V 51	49.112	ug/L	10.111	107898	0.536
|	Cr 52	50.671	ug/L	1.950	120124	0.568
|	Cr 53		ug/L		284623	0.041
|	Mn 55	51.997	ug/L	1.431	201616	0.956
|	Fe 57	4993.616	ug/L	1.470	389795	1.841
|	Co 59	50.188	ug/L	2.528	141687	0.676
|	Ni 60	52.108	ug/L	1.753	30703	0.146
|	Cu 63		ug/L		67981	0.324
|	Cu 65	50.784	ug/L	1.710	32447	0.154
[	Zn 66	51.003	ug/L	1.748	17470	0.114
|	Zn 67		ug/L		16217	0.010
|	Zn 68		ug/L		13542	0.080
>	Ge 74		ug/L		152606	152606.394
|	As 75	48.019	ug/L	2.255	20216	0.130
|	Se 77		ug/L		11217	0.006
|	Se 82	48.908	ug/L	2.176	1909	0.013
|	Kr 83		ug/L		68	-0.000
[	Sr 88	51.349	ug/L	0.581	306052	3.373
|	Y 89		ug/L		29	0.000
|	Zr 90	49.066	ug/L	1.601	157424	1.733
|	Mo 98	49.741	ug/L	1.969	69293	0.764
|	Ag 107	49.775	ug/L	0.797	106665	1.175
|	Cd 111	49.485	ug/L	1.871	25283	0.279
|	Cd 114		ug/L		58756	0.648
>	In 115		ug/L		90683	90683.387
|	Sn 120	50.137	ug/L	1.279	115165	1.268
|	Sb 121	48.629	ug/L	4.418	88265	0.971
|	Sb 123		ug/L		67659	0.744
[	Ba 135		ug/L		26811	0.342
|	Ba 137	50.806	ug/L	2.561	45615	0.582
|	Ho 165		ug/L		16	0.000
>	Lu 175		ug/L		78303	78303.210
|	Tl 205	48.560	ug/L	1.539	76465	0.973
|	Pb 208	50.619	ug/L	1.674	239214	3.052
|	Bi 209		ug/L		65	0.000
|	Th 232	52.290	ug/L	2.610	318404	4.063
|	U 238	52.293	ug/L	2.120	332932	4.251

Sample ID: QC Std 6

Report Date/Time: Tuesday, January 12, 2010 20:26:44

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	101.897				
|	Be	9	100.335				
|	B	11	98.394				
|	Na	23	97.530				
|	Mg	24	100.838				
|	Al	27	99.078				
|	P	31	100.887				
|	K	39	107.755				
|	Ca	43	99.927				
>	Sc	45		98.6			
|	Ti	47	104.258				
|	V	51	98.224				
|	Cr	52	101.342				
|	Cr	53					
|	Mn	55	103.993				
|	Fe	57	99.872				
|	Co	59	100.377				
|	Ni	60	104.215				
|	Cu	63					
|	Cu	65	101.568				
|	Zn	66	102.005				
|	Zn	67					
|	Zn	68					
>	Ge	74		99.3			
|	As	75	96.038				
|	Se	77					
|	Se	82	97.817				
|	Kr	83					
|	Sr	88	102.697				
|	Y	89					
|	Zr	90	98.131				
|	Mo	98	99.482				
|	Ag	107	99.550				
|	Cd	111	98.970				
|	Cd	114					
>	In	115		98.0			
|	Sn	120	100.274				
|	Sb	121	97.259				
|	Sb	123					
|	Ba	135					
|	Ba	137	101.612				
|	Ho	165					
>	Lu	175		99.9			
|	Tl	205	97.120				
|	Pb	208	101.238				
|	Bi	209					
|	Th	232	104.581				
|	U	238	104.586				

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: Tuesday, January 12, 2010 20:26:44

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, January 12, 2010 20:30:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 7.089

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.016	ug/L	163.633	27	0.000
Be	9	0.014	ug/L	201.373	5	0.000
B	11	2.106	ug/L	14.471	229	0.001
Na	23	-11.229	ug/L	22.254	56445	-0.087
Mg	24	1.855	ug/L	60.248	4667	0.009
Al	27	-0.212	ug/L	338.890	3334	-0.002
P	31	0.376	ug/L	850.107	3313	0.000
K	39	-3.328	ug/L	300.855	501332	-0.040
Ca	43	-2.610	ug/L	286.177	728	-0.000
> Sc	45		ug/L		212964	212964.230
Ti	47	0.466	ug/L	17.256	399	0.001
V	51	-3.587	ug/L	201.748	-12508	-0.039
Cr	52	-0.708	ug/L	19.745	-617	-0.008
Cr	53		ug/L		269947	-0.050
Mn	55	-0.025	ug/L	99.060	1286	-0.000
Fe	57	1.544	ug/L	12.526	4225	0.001
Co	59	0.011	ug/L	25.289	183	0.000
Ni	60	-0.005	ug/L	217.392	75	-0.000
Cu	63		ug/L		209	0.000
Cu	65	0.010	ug/L	82.836	126	0.000
Zn	66	-0.003	ug/L	600.548	107	-0.000
Zn	67		ug/L		13433	-0.009
Zn	68		ug/L		1188	-0.001
> Ge	74		ug/L		154541	154540.701
As	75	0.739	ug/L	149.437	720	0.002
Se	77		ug/L		9308	-0.008
Se	82	0.235	ug/L	95.245	-16	0.000
Kr	83		ug/L		75	-0.000
Sr	88	0.002	ug/L	160.026	154	0.000
Y	89		ug/L		20	-0.000
Zr	90	0.131	ug/L	26.307	693	0.005
Mo	98	0.138	ug/L	6.493	236	0.002
Ag	107	0.013	ug/L	54.657	100	0.000
Cd	111	-0.009	ug/L	68.054	13	-0.000
Cd	114		ug/L		32	0.000
> In	115		ug/L		92035	92034.605
Sn	120	0.119	ug/L	14.517	462	0.003
Sb	121	0.502	ug/L	17.798	1163	0.010
Sb	123		ug/L		948	0.008
Ba	135		ug/L		24	0.000
Ba	137	0.009	ug/L	30.785	32	0.000
Ho	165		ug/L		9	0.000
> Lu	175		ug/L		77709	77708.556
Tl	205	0.216	ug/L	19.763	646	0.004
Pb	208	0.011	ug/L	79.158	360	0.001
Bi	209		ug/L		23	-0.000
Th	232	0.110	ug/L	35.945	1039	0.009
U	238	0.007	ug/L	47.341	192	0.001

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 20:32:58

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	100.2			
|	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				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	99.5			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	99.1			
|	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

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 20:32:58

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Tuesday, January 12, 2010 20:36:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 10.090

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	966.407 ug/L	2.150	195328	0.957
|	Be	9	961.782 ug/L	0.951	65376	0.320
|	B	11	1.059 ug/L	25.054	149	0.000
|	Na	23	46903.937 ug/L	2.690	74399155	364.288
|	Mg	24	49216.339 ug/L	2.828	50935478	249.656
|	Al	27	47115.624 ug/L	2.823	72332860	354.492
|	P	31	23704.577 ug/L	1.025	1787842	8.748
|	K	39	52608.023 ug/L	4.184	130283280	636.126
|	Ca	43	48617.355 ug/L	1.247	254992	1.246
>	Sc	45	ug/L		204004	204003.715
|	Ti	47	34.692 ug/L	1.771	8924	0.042
|	V	51	1056.678 ug/L	0.595	2346782	11.523
|	Cr	52	990.027 ug/L	0.762	2266621	11.105
|	Cr	53	ug/L		483858	1.054
|	Mn	55	991.611 ug/L	0.547	3719993	18.229
|	Fe	57	49328.970 ug/L	0.648	3714506	18.189
|	Co	59	953.824 ug/L	0.484	2619751	12.841
|	Ni	60	928.426 ug/L	0.472	531397	2.605
|	Cu	63	ug/L		1158525	5.678
|	Cu	65	911.553 ug/L	0.547	565208	2.770
[	Zn	66	2365.848 ug/L	1.409	763540	5.278
|	Zn	67	ug/L		131248	0.812
|	Zn	68	ug/L		541602	3.736
>	Ge	74	ug/L		144654	144654.181
|	As	75	924.254 ug/L	1.082	361831	2.499
|	Se	77	ug/L		20771	0.076
|	Se	82	471.008 ug/L	1.828	17631	0.122
|	Kr	83	ug/L		81	0.000
[	Sr	88	1018.151 ug/L	0.727	5742647	66.889
|	Y	89	ug/L		187	0.002
|	Zr	90	494.730 ug/L	0.758	1500425	17.475
|	Mo	98	974.393 ug/L	0.304	1284302	14.960
|	Ag	107	240.133 ug/L	1.745	486832	5.671
|	Cd	111	965.160 ug/L	0.693	466489	5.434
|	Cd	114	ug/L		1076299	12.537
>	In	115	ug/L		85849	85848.771
|	Sn	120	1050.384 ug/L	0.601	2280632	26.564
|	Sb	121	241.931 ug/L	3.086	414937	4.829
|	Sb	123	ug/L		318769	3.710
[	Ba	135	ug/L		491678	6.386
|	Ba	137	945.090 ug/L	0.591	834282	10.835
|	Ho	165	ug/L		89	0.001
>	Lu	175	ug/L		76998	76998.056
|	Tl	205	466.734 ug/L	0.801	720213	9.349
|	Pb	208	4895.392 ug/L	0.960	22726300	295.137
|	Bi	209	ug/L		510	0.006
|	Th	232	2518.401 ug/L	0.857	15067618	195.681
|	U	238	5196.215 ug/L	2.633	32526172	422.412

Sample ID: QC Std 10

Report Date/Time: Tuesday, January 12, 2010 20:39:08

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	96.641				
|	Be	9	96.178				
|	B	11					
|	Na	23	93.808				
|	Mg	24	98.433				
|	Al	27	94.231				
|	P	31	94.818				
|	K	39	105.216				
|	Ca	43	97.235				
>	Sc	45		96.0			
|	Ti	47					
|	V	51	105.668				
|	Cr	52	99.003				
|	Cr	53					
|	Mn	55	99.161				
|	Fe	57	98.658				
|	Co	59	95.382				
|	Ni	60	92.843				
|	Cu	63					
|	Cu	65	91.155				
|	Zn	66	94.634				
|	Zn	67					
|	Zn	68					
>	Ge	74		94.1			
|	As	75	92.425				
|	Se	77					
|	Se	82	94.202				
|	Kr	83					
|	Sr	88	101.815				
|	Y	89					
|	Zr	90	98.946				
|	Mo	98	97.439				
|	Ag	107	96.053				
|	Cd	111	96.516				
|	Cd	114					
>	In	115		92.8			
|	Sn	120	105.038				
|	Sb	121	96.773				
|	Sb	123					
|	Ba	135					
|	Ba	137	94.509				
|	Ho	165					
>	Lu	175		98.2			
|	Tl	205	93.347				
|	Pb	208	97.908				
|	Bi	209					
|	Th	232	100.736				
|	U	238	103.924				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 10

Report Date/Time: Tuesday, January 12, 2010 20:39:08

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Tuesday, January 12, 2010 20:42:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 11.091

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.220	ug/L	1.548	10474	0.050
Be	9	50.556	ug/L	1.708	3541	0.017
B	11	99.783	ug/L	1.720	6966	0.033
Na	23	5081.387	ug/L	3.981	8360778	39.465
Mg	24	4991.572	ug/L	2.514	5319742	25.320
Al	27	5128.455	ug/L	6.824	8107233	38.586
P	31	4994.185	ug/L	0.386	390328	1.843
K	39	5179.157	ug/L	5.915	13661319	62.625
Ca	43	4939.242	ug/L	1.630	27324	0.127
> Sc	45		ug/L		210030	210029.530
Ti	47	50.211	ug/L	3.604	13173	0.061
V	51	50.160	ug/L	6.610	110668	0.547
Cr	52	51.391	ug/L	2.042	122117	0.576
Cr	53		ug/L		288932	0.058
Mn	55	52.062	ug/L	1.824	202352	0.957
Fe	57	5041.645	ug/L	2.108	394435	1.859
Co	59	50.765	ug/L	1.690	143674	0.683
Ni	60	52.525	ug/L	0.850	31025	0.147
Cu	63		ug/L		68555	0.325
Cu	65	51.585	ug/L	0.803	33039	0.157
Zn	66	52.032	ug/L	0.632	17837	0.116
Zn	67		ug/L		16913	0.015
Zn	68		ug/L		14099	0.083
> Ge	74		ug/L		152737	152737.026
As	75	48.274	ug/L	4.553	20336	0.131
Se	77		ug/L		10853	0.003
Se	82	49.652	ug/L	1.956	1940	0.013
Kr	83		ug/L		79	0.000
Sr	88	50.820	ug/L	0.667	305212	3.339
Y	89		ug/L		56	0.000
Zr	90	51.976	ug/L	4.517	167960	1.836
Mo	98	49.060	ug/L	2.806	68850	0.753
Ag	107	52.442	ug/L	0.748	113228	1.238
Cd	111	50.105	ug/L	2.118	25789	0.282
Cd	114		ug/L		59630	0.652
> In	115		ug/L		91376	91375.868
Sn	120	54.593	ug/L	2.154	126322	1.381
Sb	121	52.170	ug/L	2.730	95386	1.041
Sb	123		ug/L		72683	0.793
Ba	135		ug/L		26950	0.346
Ba	137	51.908	ug/L	1.943	46352	0.595
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		77862	77862.081
Tl	205	49.745	ug/L	1.641	77886	0.996
Pb	208	52.568	ug/L	2.426	247019	3.169
Bi	209		ug/L		53	0.000
Th	232	53.923	ug/L	2.308	326542	4.190
U	238	54.108	ug/L	2.299	342560	4.399

Sample ID: QC Std 11

Report Date/Time: Tuesday, January 12, 2010 20:45:17

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	100.440				
Be	9	101.111				
B	11	99.783				
Na	23	101.628				
Mg	24	99.831				
Al	27	101.554				
P	31	99.884				
K	39	103.583				
Ca	43	98.785				
> Sc	45		98.8			
Ti	47	100.422				
V	51	100.321				
Cr	52	102.782				
Cr	53					
Mn	55	104.124				
Fe	57	100.833				
Co	59	101.531				
Ni	60	105.050				
Cu	63					
Cu	65	103.170				
Zn	66	104.064				
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75	96.547				
Se	77					
Se	82	99.305				
Kr	83					
Sr	88	101.641				
Y	89					
Zr	90	103.951				
Mo	98	98.121				
Ag	107	104.884				
Cd	111	100.210				
Cd	114					
> In	115		98.8			
Sn	120	109.187				
Sb	121	104.339				
Sb	123					
Ba	135					
Ba	137	103.816				
Ho	165					
> Lu	175		99.3			
Tl	205	99.490				
Pb	208	105.136				
Bi	209					
Th	232	107.846				
U	238	108.216				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 11

Report Date/Time: Tuesday, January 12, 2010 20:45:17

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Tuesday, January 12, 2010 20:48:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 12.092

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.093	ug/L	31.704	43	0.000
Be	9	0.030	ug/L	131.074	6	0.000
B	11	2.311	ug/L	22.764	239	0.001
Na	23	-4.693	ug/L	48.592	66153	-0.036
Mg	24	1.281	ug/L	124.937	4001	0.006
Al	27	0.250	ug/L	264.249	4001	0.002
P	31	-1.116	ug/L	156.251	3145	-0.000
K	39	4.748	ug/L	100.901	513400	0.057
Ca	43	-4.630	ug/L	98.411	705	-0.000
> Sc	45		ug/L		209464	209463.642
Ti	47	0.130	ug/L	100.432	306	0.000
V	51	-1.937	ug/L	141.736	-8692	-0.021
Cr	52	-0.686	ug/L	12.892	-556	-0.008
Cr	53		ug/L		265304	-0.051
Mn	55	-0.023	ug/L	24.320	1273	-0.000
Fe	57	1.269	ug/L	127.568	4134	0.000
Co	59	0.015	ug/L	26.925	193	0.000
Ni	60	0.001	ug/L	849.052	77	0.000
Cu	63		ug/L		269	0.000
Cu	65	0.068	ug/L	24.703	161	0.000
Zn	66	0.039	ug/L	48.864	120	0.000
Zn	67		ug/L		13434	-0.008
Zn	68		ug/L		1234	-0.001
> Ge	74		ug/L		152936	152936.134
As	75	-0.318	ug/L	589.339	272	-0.001
Se	77		ug/L		8882	-0.010
Se	82	0.325	ug/L	109.447	-13	0.000
Kr	83		ug/L		74	-0.000
Sr	88	0.008	ug/L	42.607	186	0.000
Y	89		ug/L		22	0.000
Zr	90	0.231	ug/L	13.335	1003	0.008
Mo	98	0.129	ug/L	24.713	219	0.002
Ag	107	0.035	ug/L	9.022	145	0.001
Cd	111	0.013	ug/L	130.162	24	0.000
Cd	114		ug/L		50	0.000
> In	115		ug/L		90846	90845.742
Sn	120	0.730	ug/L	9.275	1858	0.018
Sb	121	1.213	ug/L	14.804	2434	0.024
Sb	123		ug/L		1892	0.018
Ba	135		ug/L		19	0.000
Ba	137	0.013	ug/L	28.745	35	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		77150	77149.537
Tl	205	0.373	ug/L	28.258	883	0.007
Pb	208	0.175	ug/L	2.347	1121	0.011
Bi	209		ug/L		19	-0.000
Th	232	0.291	ug/L	22.370	2117	0.023
U	238	0.062	ug/L	16.388	536	0.005

Sample ID: QC Std 12

Report Date/Time: Tuesday, January 12, 2010 20:51:31

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	98.5			
|	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	99.5			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	98.2			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	98.4			
|	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: QC Std 12

Report Date/Time: Tuesday, January 12, 2010 20:51:31

Page 3

ICPMS#4 - Summary Report

Sample ID: 1202006073

Sample Date/Time: Tuesday, January 12, 2010 20:54:57

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006073.093

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.025	ug/L	52.623	29	0.000
Be	9	0.013	ug/L	106.184	5	0.000
B	11	0.883	ug/L	16.070	145	0.000
Na	23	-9.862	ug/L	24.328	59457	-0.077
Mg	24	-1.856	ug/L	57.602	667	-0.009
Al	27	-1.060	ug/L	1.280	2000	-0.008
P	31	27.325	ug/L	10.823	5499	0.010
K	39	-16.243	ug/L	54.359	473734	-0.196
Ca	43	-31.220	ug/L	5.059	579	-0.001
> Sc	45		ug/L		215674	215673.768
Ti	47	0.094	ug/L	29.595	306	0.000
V	51	3.035	ug/L	17.850	2770	0.033
Cr	52	0.030	ug/L	356.606	1161	0.000
Cr	53		ug/L		212434	-0.332
Mn	55	0.085	ug/L	7.630	1742	0.002
Fe	57	12.049	ug/L	9.475	5114	0.004
Co	59	0.001	ug/L	528.594	156	0.000
Ni	60	0.015	ug/L	72.670	88	0.000
Cu	63		ug/L		310	0.000
Cu	65	0.073	ug/L	63.331	169	0.000
Zn	66	0.572	ug/L	9.152	300	0.001
Zn	67		ug/L		10945	-0.024
Zn	68		ug/L		1192	-0.001
> Ge	74		ug/L		152307	152307.462
As	75	-0.419	ug/L	147.570	231	-0.001
Se	77		ug/L		6681	-0.024
Se	82	0.266	ug/L	55.387	-15	0.000
Kr	83		ug/L		68	-0.000
Sr	88	0.004	ug/L	68.973	168	0.000
Y	89		ug/L		21	-0.000
Zr	90	0.321	ug/L	19.729	1345	0.011
Mo	98	0.056	ug/L	11.431	124	0.001
Ag	107	0.004	ug/L	95.429	83	0.000
Cd	111	0.001	ug/L	1129.947	19	0.000
Cd	114		ug/L		31	0.000
> In	115		ug/L		94533	94532.798
Sn	120	0.385	ug/L	9.838	1110	0.010
Sb	121	0.591	ug/L	9.774	1363	0.012
Sb	123		ug/L		1112	0.009
Ba	135		ug/L		94	0.001
Ba	137	0.152	ug/L	9.255	163	0.002
Ho	165		ug/L		7	-0.000
> Lu	175		ug/L		80029	80029.402
Tl	205	0.150	ug/L	15.112	559	0.003
Pb	208	0.088	ug/L	10.696	743	0.005
Bi	209		ug/L		48	0.000
Th	232	0.217	ug/L	19.495	1737	0.017
U	238	0.012	ug/L	24.055	232	0.001

Sample ID: 1202006073

Report Date/Time: Tuesday, January 12, 2010 20:57:45

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		102.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.1			
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

Sample ID: 1202006073

Report Date/Time: Tuesday, January 12, 2010 20:57:45

Page 3

ICPMS#4 - Summary Report

Sample ID: 1202006074

Sample Date/Time: Tuesday, January 12, 2010 21:01:11

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 937507|40|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006074.094

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	2.753	ug/L	7.693	617	0.003
Be	9	20.447	ug/L	2.325	1485	0.007
B	11	38.942	ug/L	1.505	2866	0.013
Na	23	233.790	ug/L	10.762	471357	1.816
Mg	24	1210.970	ug/L	3.069	1338237	6.143
Al	27	3639.548	ug/L	9.089	5958733	27.384
P	31	212.245	ug/L	1.653	20384	0.078
K	39	1313.328	ug/L	1.580	3973283	15.880
Ca	43	2796.368	ug/L	1.853	16345	0.072
> Sc	45		ug/L		217425	217424.580
Ti	47	139.530	ug/L	0.936	37397	0.171
V	51	25.694	ug/L	9.139	56524	0.280
Cr	52	64.090	ug/L	1.218	157405	0.719
Cr	53		ug/L		284507	-0.009
Mn	55	152.309	ug/L	1.244	610167	2.800
Fe	57	4790.188	ug/L	0.893	388212	1.766
Co	59	25.963	ug/L	0.056	76150	0.350
Ni	60	38.564	ug/L	1.620	23602	0.108
Cu	63		ug/L		66203	0.304
Cu	65	47.618	ug/L	0.781	31583	0.145
Zn	66	162.326	ug/L	1.453	55747	0.362
Zn	67		ug/L		21947	0.047
Zn	68		ug/L		40712	0.256
> Ge	74		ug/L		153651	153651.482
As	75	29.546	ug/L	1.734	12682	0.080
Se	77		ug/L		11601	0.008
Se	82	78.232	ug/L	0.750	3090	0.020
Kr	83		ug/L		79	0.000
Sr	88	62.610	ug/L	1.210	380180	4.113
Y	89		ug/L		20388	0.220
Zr	90	2.792	ug/L	2.397	9380	0.099
Mo	98	13.771	ug/L	0.813	19575	0.211
Ag	107	5.490	ug/L	2.435	12050	0.130
Cd	111	16.261	ug/L	2.137	8477	0.092
Cd	114		ug/L		19913	0.215
> In	115		ug/L		92395	92394.608
Sn	120	10.568	ug/L	0.325	24880	0.267
Sb	121	14.170	ug/L	0.870	26379	0.283
Sb	123		ug/L		20093	0.215
Ba	135		ug/L		28903	0.367
Ba	137	54.967	ug/L	1.454	49647	0.630
Ho	165		ug/L		764	0.010
> Lu	175		ug/L		78747	78747.238
Tl	205	32.805	ug/L	0.660	52062	0.657
Pb	208	23.063	ug/L	0.790	109804	1.390
Bi	209		ug/L		823	0.010
Th	232	2.524	ug/L	1.537	15827	0.196
U	238	0.515	ug/L	2.079	3451	0.042

Sample ID: 1202006074

Report Date/Time: Tuesday, January 12, 2010 21:03:59

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.3			
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		100.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
	Ti	47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006074
 Report Date/Time: Tuesday, January 12, 2010 21:03:59
 Page 3

ICPMS#4 - Summary Report

Sample ID: 243626001

Sample Date/Time: Tuesday, January 12, 2010 21:07:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626001.095

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	74.669	ug/L	1.242	19312	0.074
Be	9	4.434	ug/L	0.869	390	0.001
B	11	19.589	ug/L	4.877	1778	0.006
Na	23	567.209	ug/L	7.176	1240054	4.405
Mg	24	10701.443	ug/L	1.146	14152816	54.284
Al	27	91747.198	ug/L	0.630	179936941	690.295
P	31	427.655	ug/L	0.491	45157	0.158
K	39	11509.277	ug/L	1.254	36897746	139.168
Ca	43	8519.559	ug/L	2.350	57832	0.218
> Sc	45		ug/L		260662	260662.292
Ti	47	1981.192	ug/L	0.323	632108	2.424
V	51	105.545	ug/L	0.360	294759	1.151
Cr	52	68.154	ug/L	0.802	200577	0.764
Cr	53		ug/L		203925	-0.535
Mn	55	1680.688	ug/L	0.677	8054897	30.896
Fe	57	55632.452	ug/L	1.015	5351707	20.513
Co	59	27.105	ug/L	1.272	95297	0.365
Ni	60	45.226	ug/L	2.384	33164	0.127
Cu	63		ug/L		45172	0.172
Cu	65	28.081	ug/L	0.837	22388	0.085
Zn	66	149.623	ug/L	1.709	47898	0.334
Zn	67		ug/L		18380	0.032
Zn	68		ug/L		39121	0.264
> Ge	74		ug/L		143197	143197.231
As	75	10.189	ug/L	4.446	4323	0.028
Se	77		ug/L		5972	-0.026
Se	82	0.363	ug/L	99.954	-10	0.000
Kr	83		ug/L		134	0.000
Sr	88	146.748	ug/L	0.588	842520	9.641
Y	89		ug/L		355152	4.064
Zr	90	123.565	ug/L	2.036	381594	4.365
Mo	98	2.243	ug/L	1.979	3048	0.034
Ag	107	0.621	ug/L	1.992	1349	0.015
Cd	111	2.202	ug/L	2.392	1101	0.012
Cd	114		ug/L		368	0.004
> In	115		ug/L		87379	87378.609
Sn	120	1.349	ug/L	3.618	3158	0.034
Sb	121	0.497	ug/L	1.633	1097	0.010
Sb	123		ug/L		864	0.007
Ba	135		ug/L		517838	6.250
Ba	137	920.172	ug/L	1.138	873981	10.549
Ho	165		ug/L		13084	0.158
> Lu	175		ug/L		82850	82850.397
Tl	205	1.303	ug/L	4.685	2492	0.026
Pb	208	63.455	ug/L	1.884	317244	3.826
Bi	209		ug/L		3658	0.044
Th	232	44.777	ug/L	0.648	288639	3.479
U	238	5.907	ug/L	0.651	39939	0.480

Sample ID: 243626001

Report Date/Time: Tuesday, January 12, 2010 21:10:14

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626001

Report Date/Time: Tuesday, January 12, 2010 21:10:14

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		122.6			
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		93.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		105.7			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
Sc 45 Int Std for sanSc		45	
	Ti	47	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 243626001

Report Date/Time: Tuesday, January 12, 2010 21:10:14

Page 3

Fe

57Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 243626001

Report Date/Time: Tuesday, January 12, 2010 21:10:14

Page 4

ICPMS#4 - Summary Report

Sample ID: 1202006075

Sample Date/Time: Tuesday, January 12, 2010 21:13:40

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006075.096

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	70.882	ug/L	1.890	18418	0.070
Be	9	4.761	ug/L	2.277	420	0.002
B	11	18.762	ug/L	3.893	1715	0.006
Na	23	536.694	ug/L	3.243	1183789	4.168
Mg	24	10329.962	ug/L	2.031	13726085	52.400
Al	27	90594.730	ug/L	1.992	178504607	681.624
P	31	456.088	ug/L	0.150	48117	0.168
K	39	11514.292	ug/L	1.152	37087941	139.228
Ca	43	8302.964	ug/L	0.241	56655	0.213
Sc	45		ug/L		261881	261880.667
Ti	47	1993.731	ug/L	1.051	639053	2.439
V	51	110.181	ug/L	3.036	309348	1.202
Cr	52	67.861	ug/L	1.838	200650	0.761
Cr	53		ug/L		198686	-0.559
Mn	55	2499.381	ug/L	1.175	12033436	45.946
Fe	57	57288.918	ug/L	2.061	5536519	21.124
Co	59	36.944	ug/L	2.403	130419	0.497
Ni	60	46.610	ug/L	1.920	34337	0.131
Cu	63		ug/L		44511	0.169
Cu	65	27.563	ug/L	0.627	22082	0.084
Zn	66	153.250	ug/L	2.290	48986	0.342
Zn	67		ug/L		18560	0.034
Zn	68		ug/L		40912	0.277
Ge	74		ug/L		143014	143014.159
As	75	11.381	ug/L	2.699	4779	0.031
Se	77		ug/L		5642	-0.028
Se	82	0.358	ug/L	116.972	-11	0.000
Kr	83		ug/L		143	0.001
Sr	88	144.808	ug/L	1.309	843924	9.513
Y	89		ug/L		371543	4.189
Zr	90	120.983	ug/L	0.481	379306	4.273
Mo	98	2.737	ug/L	1.769	3766	0.042
Ag	107	0.616	ug/L	5.045	1358	0.015
Cd	111	2.207	ug/L	5.286	1119	0.012
Cd	114		ug/L		458	0.005
In	115		ug/L		88703	88702.641
Sn	120	1.362	ug/L	0.205	3232	0.034
Sb	121	0.338	ug/L	6.391	831	0.007
Sb	123		ug/L		694	0.005
Ba	135		ug/L		562482	6.825
Ba	137	1015.058	ug/L	0.121	959047	11.637
Ho	165		ug/L		13569	0.165
Lu	175		ug/L		82409	82409.175
Tl	205	1.208	ug/L	1.438	2322	0.024
Pb	208	72.454	ug/L	0.116	360305	4.368
Bi	209		ug/L		3556	0.043
Th	232	44.182	ug/L	1.585	283283	3.433
U	238	5.795	ug/L	0.403	38984	0.471

Sample ID: 1202006075

Report Date/Time: Tuesday, January 12, 2010 21:16:29

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 1202006075

Report Date/Time: Tuesday, January 12, 2010 21:16:29

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		123.2			
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		93.0			
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.9			
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		105.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte

Kr 83 Upper, S, EEEAI

Sc 45 Int Std for sanSc

Ti

V

Mn

MassOut of Limits Message

27Sample is out of limits (over linear range)

45

47Sample is out of limits (over linear range)

51Sample is out of limits (over linear range)

55Sample is out of limits (over linear range)

Sample ID: 1202006075

Report Date/Time: Tuesday, January 12, 2010 21:16:29

Page 3

Fe
Ba

57Sample is out of limits (over linear range)
137Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: 1202006076

Sample Date/Time: Tuesday, January 12, 2010 21:19:54

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006076.097

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	102.293	ug/L	2.819	27208	0.101
Be	9	24.124	ug/L	3.268	2161	0.008
B	11	58.896	ug/L	1.654	5294	0.019
Na	23	1428.186	ug/L	4.105	3069542	11.092
Mg	24	12654.578	ug/L	11.557	17200149	64.192
Al	27	117962.863	ug/L	12.558	238304545	887.538
P	31	1173.061	ug/L	1.227	120252	0.433
K	39	13453.736	ug/L	6.195	44315335	162.680
Ca	43	9816.850	ug/L	1.539	68460	0.252
> Sc	45		ug/L		268262	268262.226
Ti	47	2176.658	ug/L	0.350	714705	2.663
V	51	132.275	ug/L	1.833	381594	1.443
Cr	52	93.380	ug/L	1.512	282326	1.047
Cr	53		ug/L		206728	-0.547
Mn	55	1767.510	ug/L	1.562	8718139	32.492
Fe	57	59787.828	ug/L	1.410	5918600	22.045
Co	59	45.518	ug/L	1.283	164560	0.613
Ni	60	67.331	ug/L	1.288	50764	0.189
Cu	63		ug/L		77467	0.288
Cu	65	46.413	ug/L	0.572	37984	0.141
Zn	66	186.587	ug/L	0.633	59729	0.416
Zn	67		ug/L		20286	0.046
Zn	68		ug/L		47607	0.323
> Ge	74		ug/L		143242	143241.656
As	75	47.027	ug/L	2.978	18591	0.127
Se	77		ug/L		5849	-0.027
Se	82	8.394	ug/L	3.803	288	0.002
Kr	83		ug/L		148	0.001
Sr	88	187.449	ug/L	0.442	1076812	12.315
Y	89		ug/L		366879	4.196
Zr	90	170.731	ug/L	0.721	527508	6.031
Mo	98	23.520	ug/L	0.730	31610	0.361
Ag	107	24.518	ug/L	0.999	50691	0.579
Cd	111	7.627	ug/L	1.534	3771	0.043
Cd	114		ug/L		6105	0.070
> In	115		ug/L		87428	87428.062
Sn	120	9.212	ug/L	2.113	20545	0.233
Sb	121	19.731	ug/L	0.159	34664	0.394
Sb	123		ug/L		26673	0.303
Ba	135		ug/L		570555	6.874
Ba	137	1011.627	ug/L	1.247	962605	11.598
Ho	165		ug/L		13521	0.163
> Lu	175		ug/L		82996	82995.887
Tl	205	45.633	ug/L	0.134	76196	0.914
Pb	208	158.204	ug/L	0.259	791935	9.538
Bi	209		ug/L		3939	0.047
Th	232	71.609	ug/L	1.108	462195	5.564
U	238	31.031	ug/L	1.069	209528	2.523

Sample ID: 1202006076

Report Date/Time: Tuesday, January 12, 2010 21:22:41

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		126.2			
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		93.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		105.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
Sc 45 Int Std for sanSc		45	
	Ti	47	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 1202006076

Report Date/Time: Tuesday, January 12, 2010 21:22:41

Page 3

Fe
Ba

57Sample is out of limits (over linear range)
137Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 1202006076

Report Date/Time: Tuesday, January 12, 2010 21:22:41

Page 4

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, January 12, 2010 21:26:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 6.098

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	48.510 ug/L	1.337	10190	0.048
|	Be	9	49.893 ug/L	1.835	3520	0.017
|	B	11	100.321 ug/L	0.574	7055	0.033
|	Na	23	5227.254 ug/L	1.135	8663409	40.598
|	Mg	24	4925.915 ug/L	7.321	5288326	24.987
|	Al	27	4917.136 ug/L	0.799	7830278	36.996
|	P	31	5029.269 ug/L	2.007	395896	1.856
|	K	39	5249.874 ug/L	1.963	13934724	63.480
|	Ca	43	4975.768 ug/L	1.509	27725	0.128
>	Sc	45	ug/L		211554	211553.770
|	Ti	47	51.528 ug/L	0.833	13611	0.063
|	V	51	49.750 ug/L	6.898	110448	0.543
|	Cr	52	51.621 ug/L	1.784	123553	0.579
|	Cr	53	ug/L		276208	-0.012
|	Mn	55	51.828 ug/L	0.966	202941	0.953
|	Fe	57	5014.071 ug/L	1.835	395168	1.849
|	Co	59	50.535 ug/L	1.984	144072	0.680
|	Ni	60	52.321 ug/L	2.117	31127	0.147
|	Cu	63	ug/L		68306	0.322
[	Cu	65	50.768 ug/L	1.485	32753	0.154
|	Zn	66	51.523 ug/L	0.396	17613	0.115
|	Zn	67	ug/L		15625	0.007
|	Zn	68	ug/L		13517	0.080
>	Ge	74	ug/L		152301	152300.743
|	As	75	47.685 ug/L	2.519	20040	0.129
|	Se	77	ug/L		11261	0.006
|	Se	82	49.379 ug/L	2.798	1924	0.013
[	Kr	83	ug/L		73	-0.000
|	Sr	88	50.803 ug/L	0.516	302443	3.338
|	Y	89	ug/L		65	0.000
|	Zr	90	50.666 ug/L	1.172	162358	1.790
|	Mo	98	49.776 ug/L	1.276	69258	0.764
|	Ag	107	49.928 ug/L	0.349	106865	1.179
|	Cd	111	49.562 ug/L	0.356	25291	0.279
|	Cd	114	ug/L		59019	0.651
>	In	115	ug/L		90574	90574.377
|	Sn	120	49.745 ug/L	0.749	114131	1.258
|	Sb	121	48.652 ug/L	3.294	88199	0.971
|	Sb	123	ug/L		67736	0.745
[	Ba	135	ug/L		26824	0.346
|	Ba	137	51.221 ug/L	1.546	45572	0.587
|	Ho	165	ug/L		11	0.000
>	Lu	175	ug/L		77569	77569.132
|	Tl	205	48.622 ug/L	1.086	75856	0.974
|	Pb	208	51.326 ug/L	0.610	240338	3.094
|	Bi	209	ug/L		66	0.000
|	Th	232	52.334 ug/L	2.196	315784	4.066
|	U	238	53.016 ug/L	1.949	334445	4.310

Sample ID: QC Std 6

Report Date/Time: Tuesday, January 12, 2010 21:28:53

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	97.021			
|	Be	9	99.785			
|	B	11	100.321			
|	Na	23	104.545			
|	Mg	24	98.518			
|	Al	27	97.369			
|	P	31	100.585			
|	K	39	104.997			
|	Ca	43	99.515			
>	Sc	45		99.5		
|	Ti	47	103.057			
|	V	51	99.500			
|	Cr	52	103.242			
|	Cr	53				
|	Mn	55	103.656			
|	Fe	57	100.281			
|	Co	59	101.070			
|	Ni	60	104.642			
|	Cu	63				
|	Cu	65	101.537			
|	Zn	66	103.046			
|	Zn	67				
|	Zn	68				
>	Ge	74		99.1		
|	As	75	95.371			
|	Se	77				
|	Se	82	98.758			
|	Kr	83				
|	Sr	88	101.607			
|	Y	89				
|	Zr	90	101.332			
|	Mo	98	99.551			
|	Ag	107	99.856			
|	Cd	111	99.124			
|	Cd	114				
>	In	115		97.9		
|	Sn	120	99.491			
|	Sb	121	97.303			
|	Sb	123				
|	Ba	135				
|	Ba	137	102.441			
|	Ho	165				
>	Lu	175		99.0		
|	Tl	205	97.243			
|	Pb	208	102.652			
|	Bi	209				
|	Th	232	104.667			
|	U	238	106.033			

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: Tuesday, January 12, 2010 21:28:53

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, January 12, 2010 21:32:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 7.099

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.142	ug/L	32.701	52	0.000
Be	9	-0.009	ug/L	530.192	3	-0.000
B	11	2.749	ug/L	21.125	268	0.001
Na	23	-12.262	ug/L	15.208	53433	-0.095
Mg	24	0.367	ug/L	444.217	3000	0.002
Al	27	1.737	ug/L	178.961	6335	0.013
P	31	-3.620	ug/L	54.393	2932	-0.001
K	39	-12.506	ug/L	36.112	466496	-0.151
Ca	43	-0.456	ug/L	2084.513	723	-0.000
> Sc	45		ug/L		208058	208058.315
Ti	47	0.308	ug/L	6.622	350	0.000
V	51	-1.008	ug/L	120.630	-6517	-0.011
Cr	52	-0.250	ug/L	9.628	465	-0.003
Cr	53		ug/L		248818	-0.122
Mn	55	-0.000	ug/L	35402.573	1354	-0.000
Fe	57	5.821	ug/L	43.561	4455	0.002
Co	59	0.011	ug/L	40.313	179	0.000
Ni	60	-0.017	ug/L	62.828	66	-0.000
Cu	63		ug/L		230	0.000
Cu	65	0.026	ug/L	59.734	134	0.000
Zn	66	0.028	ug/L	89.728	115	0.000
Zn	67		ug/L		12261	-0.015
Zn	68		ug/L		934	-0.003
> Ge	74		ug/L		151492	151491.863
As	75	-0.108	ug/L	1162.931	358	-0.000
Se	77		ug/L		8889	-0.009
Se	82	0.231	ug/L	79.586	-16	0.000
Kr	83		ug/L		68	-0.000
Sr	88	0.006	ug/L	15.577	176	0.000
Y	89		ug/L		30	0.000
Zr	90	0.181	ug/L	14.280	840	0.006
Mo	98	0.038	ug/L	23.083	93	0.001
Ag	107	0.011	ug/L	30.010	93	0.000
Cd	111	0.006	ug/L	329.058	21	0.000
Cd	114		ug/L		37	0.000
> In	115		ug/L		90482	90481.533
Sn	120	0.140	ug/L	7.004	501	0.004
Sb	121	0.534	ug/L	19.671	1200	0.011
Sb	123		ug/L		963	0.008
Ba	135		ug/L		23	0.000
Ba	137	0.020	ug/L	31.228	40	0.000
Ho	165		ug/L		7	-0.000
> Lu	175		ug/L		75949	75949.144
Tl	205	0.170	ug/L	21.987	560	0.003
Pb	208	0.052	ug/L	15.849	540	0.003
Bi	209		ug/L		17	-0.000
Th	232	0.122	ug/L	32.642	1087	0.009
U	238	0.014	ug/L	19.128	233	0.001

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 21:35:08

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.9			
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		98.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
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		96.9			
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: Tuesday, January 12, 2010 21:35:08

Page 3

ICPMS#4 - Summary Report

Sample ID: 1202006078

Sample Date/Time: Tuesday, January 12, 2010 21:38:33

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006078.100

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	89.763 ug/L	4.171	22911	0.089
|	Be	9	23.373 ug/L	2.993	2009	0.008
|	B	11	55.758 ug/L	1.132	4814	0.018
|	Na	23	1339.570 ug/L	10.212	2769313	10.404
|	Mg	24	10572.849 ug/L	2.618	13807243	53.632
|	Al	27	95577.387 ug/L	6.596	185129151	719.113
|	P	31	1115.456 ug/L	1.602	109916	0.412
|	K	39	12026.810 ug/L	3.763	38038914	145.426
|	Ca	43	9053.384 ug/L	1.177	60630	0.232
>	Sc	45	ug/L		257353	257353.008
|	Ti	47	1869.165 ug/L	0.974	588786	2.287
|	V	51	115.328 ug/L	1.588	318440	1.258
|	Cr	52	83.294 ug/L	0.941	241738	0.934
|	Cr	53	ug/L		212194	-0.493
|	Mn	55	1551.567 ug/L	0.471	7342147	28.522
|	Fe	57	50550.652 ug/L	0.668	4801935	18.639
|	Co	59	43.050 ug/L	0.248	149334	0.580
|	Ni	60	64.627 ug/L	1.266	46750	0.181
|	Cu	63	ug/L		69584	0.269
|	Cu	65	43.259 ug/L	1.621	33972	0.131
[	Zn	66	160.398 ug/L	3.234	51570	0.358
|	Zn	67	ug/L		19039	0.037
|	Zn	68	ug/L		41461	0.279
>	Ge	74	ug/L		143878	143878.449
|	As	75	45.035 ug/L	1.795	17897	0.122
|	Se	77	ug/L		6168	-0.025
|	Se	82	7.629 ug/L	2.773	260	0.002
|	Kr	83	ug/L		146	0.001
[	Sr	88	165.968 ug/L	2.107	952003	10.904
|	Y	89	ug/L		308545	3.534
|	Zr	90	147.702 ug/L	0.735	455763	5.217
|	Mo	98	23.780 ug/L	0.380	31916	0.365
|	Ag	107	23.320 ug/L	1.221	48148	0.551
|	Cd	111	7.236 ug/L	1.148	3574	0.041
|	Cd	114	ug/L		5711	0.065
>	In	115	ug/L		87312	87311.613
|	Sn	120	9.210 ug/L	1.019	20511	0.233
|	Sb	121	22.252 ug/L	2.509	39006	0.444
|	Sb	123	ug/L		29844	0.339
[	Ba	135	ug/L		499630	6.115
|	Ba	137	903.653 ug/L	1.363	846455	10.360
|	Ho	165	ug/L		11172	0.137
>	Lu	175	ug/L		81712	81712.209
|	Tl	205	43.370 ug/L	1.729	71302	0.869
|	Pb	208	145.860 ug/L	1.960	718753	8.794
|	Bi	209	ug/L		3256	0.039
|	Th	232	62.940 ug/L	0.756	400031	4.890
|	U	238	29.416 ug/L	0.257	195549	2.391

Sample ID: 1202006078

Report Date/Time: Tuesday, January 12, 2010 21:41:21

Page 1

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 1202006078

Report Date/Time: Tuesday, January 12, 2010 21:41:21

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		121.0			
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		93.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
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		104.2			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
Sc 45 Int Std for sanSc		45	
	Ti	47	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 1202006078

Report Date/Time: Tuesday, January 12, 2010 21:41:21

Page 3

Fe

57Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 1202006078

Report Date/Time: Tuesday, January 12, 2010 21:41:21

Page 4

ICPMS#4 - Summary Report

Sample ID: 1202006077

Sample Date/Time: Tuesday, January 12, 2010 21:44:46

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 937507|10|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\1202006077.101

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li 7	18.457	ug/L	3.370	3891	0.018
|	Be 9	1.182	ug/L	14.598	87	0.000
|	B 11	6.504	ug/L	10.364	533	0.002
|	Na 23	125.041	ug/L	14.140	279728	0.971
|	Mg 24	2665.279	ug/L	4.838	2861455	13.520
|	Al 27	23970.013	ug/L	5.942	38135889	180.347
|	P 31	106.867	ug/L	2.169	11602	0.039
|	K 39	3034.452	ug/L	3.828	8267520	36.692
|	Ca 43	2139.520	ug/L	1.487	12339	0.055
>|	Sc 45		ug/L		211509	211508.760
|	Ti 47	498.628	ug/L	1.531	129293	0.610
|	V 51	26.555	ug/L	11.669	57012	0.290
|	Cr 52	16.722	ug/L	1.713	40736	0.188
|	Cr 53		ug/L		232008	-0.221
|	Mn 55	404.536	ug/L	0.407	1574309	7.437
|	Fe 57	13567.065	ug/L	0.604	1062192	5.003
|	Co 59	6.919	ug/L	1.230	19852	0.093
|	Ni 60	11.584	ug/L	1.825	6950	0.032
|	Cu 63		ug/L		9841	0.046
|	Cu 65	7.260	ug/L	3.253	4785	0.022
|	Zn 66	31.555	ug/L	0.779	10277	0.070
|	Zn 67		ug/L		13171	-0.005
|	Zn 68		ug/L		8931	0.053
>|	Ge 74		ug/L		144553	144552.807
|	As 75	1.070	ug/L	102.430	799	0.003
|	Se 77		ug/L		7935	-0.013
|	Se 82	0.430	ug/L	30.527	-8	0.000
|	Kr 83		ug/L		78	0.000
|	Sr 88	30.372	ug/L	0.167	173381	1.995
|	Y 89		ug/L		72087	0.830
|	Zr 90	24.609	ug/L	1.971	75722	0.869
|	Mo 98	0.451	ug/L	9.537	640	0.007
|	Ag 107	0.119	ug/L	14.627	311	0.003
|	Cd 111	0.391	ug/L	6.625	208	0.002
|	Cd 114		ug/L		97	0.001
>|	In 115		ug/L		86825	86824.720
|	Sn 120	0.298	ug/L	7.079	828	0.008
|	Sb 121	0.179	ug/L	7.020	539	0.004
|	Sb 123		ug/L		449	0.003
|	Ba 135		ug/L		104576	1.362
|	Ba 137	204.136	ug/L	0.391	179652	2.340
|	Ho 165		ug/L		2548	0.033
>|	Lu 175		ug/L		76754	76753.739
|	Tl 205	0.324	ug/L	11.429	804	0.006
|	Pb 208	13.726	ug/L	1.822	63818	0.828
|	Bi 209		ug/L		764	0.010
|	Th 232	9.580	ug/L	0.851	57505	0.744
|	U 238	1.250	ug/L	2.597	7947	0.102

Sample ID: 1202006077

Report Date/Time: Tuesday, January 12, 2010 21:47:34

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.5			
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		94.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.8			
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	Mass Out of Limits Message
	Ti	47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006077
 Report Date/Time: Tuesday, January 12, 2010 21:47:34
 Page 3

ICPMS#4 - Summary Report

Sample ID: 243626002

Sample Date/Time: Tuesday, January 12, 2010 21:51:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626002.102

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.034	ug/L	3.081	12329	0.051
Be	9	3.192	ug/L	3.294	263	0.001
B	11	14.589	ug/L	2.783	1260	0.005
Na	23	436.742	ug/L	3.689	910810	3.392
Mg	24	8866.030	ug/L	3.976	10945787	44.974
Al	27	63857.029	ug/L	1.095	116914251	480.452
P	31	885.356	ug/L	1.658	83258	0.327
K	39	9239.530	ug/L	3.008	27768407	111.723
Ca	43	7637.165	ug/L	0.245	48492	0.196
> Sc	45		ug/L		243346	243345.511
Ti	47	1472.727	ug/L	0.787	438729	1.802
V	51	99.625	ug/L	1.085	259432	1.086
Cr	52	44.421	ug/L	1.163	122467	0.498
Cr	53		ug/L		192405	-0.527
Mn	55	1530.955	ug/L	1.921	6848827	28.144
Fe	57	45863.805	ug/L	1.458	4119430	16.911
Co	59	19.977	ug/L	1.137	65613	0.269
Ni	60	30.112	ug/L	1.499	20646	0.084
Cu	63		ug/L		45204	0.185
Cu	65	29.646	ug/L	1.021	22057	0.090
Zn	66	138.459	ug/L	0.510	44235	0.309
Zn	67		ug/L		17000	0.023
Zn	68		ug/L		35482	0.239
> Ge	74		ug/L		142879	142879.038
As	75	8.717	ug/L	12.493	3746	0.024
Se	77		ug/L		5676	-0.028
Se	82	0.393	ug/L	56.904	-9	0.000
Kr	83		ug/L		112	0.000
Sr	88	103.506	ug/L	1.775	593629	6.800
Y	89		ug/L		266666	3.055
Zr	90	88.883	ug/L	1.740	274265	3.140
Mo	98	1.901	ug/L	0.683	2587	0.029
Ag	107	0.434	ug/L	2.882	961	0.010
Cd	111	1.628	ug/L	9.688	817	0.009
Cd	114		ug/L		522	0.006
> In	115		ug/L		87290	87290.143
Sn	120	1.026	ug/L	1.801	2440	0.026
Sb	121	0.292	ug/L	4.393	737	0.006
Sb	123		ug/L		606	0.004
Ba	135		ug/L		339023	4.200
Ba	137	628.798	ug/L	1.119	581966	7.209
Ho	165		ug/L		10081	0.125
> Lu	175		ug/L		80728	80728.275
Tl	205	0.708	ug/L	2.215	1465	0.014
Pb	208	92.312	ug/L	1.386	449567	5.565
Bi	209		ug/L		2664	0.033
Th	232	30.413	ug/L	1.426	191141	2.363
U	238	16.876	ug/L	1.599	110897	1.372

Sample ID: 243626002

Report Date/Time: Tuesday, January 12, 2010 21:53:48

Page 1

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		114.5			
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		93.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		103.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
	Ti	47	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 243626002

Report Date/Time: Tuesday, January 12, 2010 21:53:48

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626002

Report Date/Time: Tuesday, January 12, 2010 21:53:48

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626003

Sample Date/Time: Tuesday, January 12, 2010 21:57:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626003.103

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	86.113	ug/L	7.171	21072	0.085
Be	9	4.117	ug/L	7.279	343	0.001
B	11	18.413	ug/L	2.739	1590	0.006
Na	23	538.790	ug/L	13.733	1117201	4.185
Mg	24	9630.240	ug/L	7.305	12055812	48.851
Al	27	103527.994	ug/L	7.857	192111778	778.932
P	31	464.969	ug/L	4.489	46181	0.172
K	39	11008.032	ug/L	2.457	33474244	133.107
Ca	43	8003.670	ug/L	4.502	51517	0.205
> Sc	45		ug/L		247220	247219.639
Ti	47	1679.395	ug/L	3.114	507732	2.054
V	51	92.080	ug/L	3.276	243098	1.004
Cr	52	41.281	ug/L	5.256	115536	0.463
Cr	53		ug/L		186881	-0.560
Mn	55	1650.429	ug/L	4.826	7490884	30.340
Fe	57	49971.805	ug/L	4.749	4553226	18.426
Co	59	27.539	ug/L	4.457	91706	0.371
Ni	60	33.422	ug/L	3.268	23248	0.094
Cu	63		ug/L		38581	0.155
Cu	65	24.882	ug/L	3.164	18813	0.076
Zn	66	138.630	ug/L	4.111	43094	0.309
Zn	67		ug/L		16732	0.025
Zn	68		ug/L		35087	0.243
> Ge	74		ug/L		139213	139212.894
As	75	8.595	ug/L	12.304	3592	0.023
Se	77		ug/L		5414	-0.029
Se	82	-0.168	ug/L	204.784	-29	-0.000
Kr	83		ug/L		129	0.000
Sr	88	127.988	ug/L	4.593	703567	8.408
Y	89		ug/L		241142	2.883
Zr	90	105.092	ug/L	6.288	310591	3.712
Mo	98	1.411	ug/L	6.330	1848	0.022
Ag	107	0.506	ug/L	2.815	1066	0.012
Cd	111	1.863	ug/L	9.371	892	0.010
Cd	114		ug/L		410	0.005
> In	115		ug/L		83809	83808.869
Sn	120	1.320	ug/L	2.828	2963	0.033
Sb	121	0.194	ug/L	6.756	544	0.004
Sb	123		ug/L		465	0.003
Ba	135		ug/L		404302	5.191
Ba	137	764.704	ug/L	4.266	682695	8.767
Ho	165		ug/L		8949	0.115
> Lu	175		ug/L		77951	77951.078
Tl	205	0.814	ug/L	3.403	1581	0.016
Pb	208	59.704	ug/L	4.030	280611	3.599
Bi	209		ug/L		3394	0.043
Th	232	41.157	ug/L	3.283	249456	3.198
U	238	7.017	ug/L	5.244	44559	0.570

Sample ID: 243626003

Report Date/Time: Tuesday, January 12, 2010 22:00:03

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626003

Report Date/Time: Tuesday, January 12, 2010 22:00:03

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.3			
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		90.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
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		99.4			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
Kr 83 Upper, S, EEEAI		27Sample is out of limits (over linear range)
	Ti	47Sample is out of limits (over linear range)
	Mn	55Sample is out of limits (over linear range)

Sample ID: 243626003

Report Date/Time: Tuesday, January 12, 2010 22:00:03

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626003

Report Date/Time: Tuesday, January 12, 2010 22:00:03

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626004

Sample Date/Time: Tuesday, January 12, 2010 22:03:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626004.104

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	61.720	ug/L	3.394	15339	0.061
Be	9	3.894	ug/L	11.326	330	0.001
B	11	18.424	ug/L	2.319	1612	0.006
Na	23	380.814	ug/L	3.791	829070	2.958
Mg	24	10519.164	ug/L	1.655	13367421	53.360
Al	27	83156.260	ug/L	4.264	156661515	625.658
P	31	558.286	ug/L	0.791	55472	0.206
K	39	11803.254	ug/L	5.087	36327163	142.723
Ca	43	8139.038	ug/L	0.187	53137	0.209
> Sc	45		ug/L		250473	250473.268
Ti	47	1787.382	ug/L	0.945	547963	2.187
V	51	100.726	ug/L	2.343	269997	1.098
Cr	52	46.366	ug/L	0.297	131529	0.520
Cr	53		ug/L		187832	-0.567
Mn	55	1463.246	ug/L	0.500	6738904	26.899
Fe	57	50253.463	ug/L	0.909	4645872	18.530
Co	59	21.352	ug/L	2.016	72163	0.287
Ni	60	34.152	ug/L	1.180	24086	0.096
Cu	63		ug/L		50493	0.201
Cu	65	32.039	ug/L	1.923	24521	0.097
Zn	66	145.863	ug/L	1.524	46271	0.325
Zn	67		ug/L		17025	0.024
Zn	68		ug/L		37081	0.252
> Ge	74		ug/L		141894	141893.972
As	75	9.553	ug/L	12.413	4040	0.026
Se	77		ug/L		5308	-0.031
Se	82	-0.161	ug/L	132.373	-30	-0.000
Kr	83		ug/L		145	0.001
Sr	88	129.518	ug/L	0.394	732747	8.509
Y	89		ug/L		297355	3.453
Zr	90	104.422	ug/L	0.767	317818	3.688
Mo	98	3.713	ug/L	1.740	4947	0.057
Ag	107	0.508	ug/L	2.150	1099	0.012
Cd	111	2.011	ug/L	5.964	992	0.011
Cd	114		ug/L		537	0.006
> In	115		ug/L		86101	86100.958
Sn	120	1.170	ug/L	2.254	2720	0.030
Sb	121	0.256	ug/L	6.173	667	0.005
Sb	123		ug/L		535	0.004
Ba	135		ug/L		428341	5.341
Ba	137	795.434	ug/L	0.741	731296	9.119
Ho	165		ug/L		10759	0.134
> Lu	175		ug/L		80194	80193.609
Tl	205	0.805	ug/L	1.503	1612	0.016
Pb	208	57.261	ug/L	1.768	277127	3.452
Bi	209		ug/L		3106	0.038
Th	232	35.949	ug/L	1.042	224409	2.793
U	238	8.199	ug/L	2.085	53613	0.667

Sample ID: 243626004

Report Date/Time: Tuesday, January 12, 2010 22:06:19

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.8			
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		92.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.1			
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	Mass Out of Limits Message
Kr 83 Upper, S, EEEAI	Ti	27Sample is out of limits (over linear range)
	V	47Sample is out of limits (over linear range)
	Mn	51Sample is out of limits (over linear range)
	Fe	55Sample is out of limits (over linear range)
		57Sample is out of limits (over linear range)

Sample ID: 243626004

Report Date/Time: Tuesday, January 12, 2010 22:06:19

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626004

Report Date/Time: Tuesday, January 12, 2010 22:06:19

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626005
 Sample Date/Time: Tuesday, January 12, 2010 22:09:45
 Sample Type:
 Sample Description: LANL 6020
 Number of Replicates: 3
 Batch ID: 937507[2]skj
 Method File: c:\elandata\Method\6020.mth
 Dataset File: c:\elandata\dataset\100112\243626005.105

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.880	ug/L	3.093	9748	0.041
Be	9	2.124	ug/L	14.910	170	0.001
B	11	11.177	ug/L	4.406	950	0.004
Na	23	537.470	ug/L	5.566	1060684	4.174
Mg	24	10932.838	ug/L	3.783	12995668	55.458
Al	27	43431.549	ug/L	2.743	76629861	326.774
P	31	1410.169	ug/L	1.826	125571	0.520
K	39	8524.692	ug/L	2.400	24725294	103.079
Ca	43	10260.774	ug/L	0.837	62480	0.263
> Sc	45		ug/L		234407	234406.713
Ti	47	1464.411	ug/L	0.497	420212	1.791
V	51	96.129	ug/L	0.705	240972	1.048
Cr	52	31.115	ug/L	2.262	82966	0.349
Cr	53		ug/L		181626	-0.542
Mn	55	1487.872	ug/L	1.543	6411581	27.352
Fe	57	36927.929	ug/L	1.928	3195396	13.616
Co	59	19.201	ug/L	3.045	60734	0.258
Ni	60	30.897	ug/L	2.669	20396	0.087
Cu	63		ug/L		49337	0.210
Cu	65	33.389	ug/L	2.307	23908	0.101
Zn	66	111.586	ug/L	0.510	35613	0.249
Zn	67		ug/L		15420	0.012
Zn	68		ug/L		28995	0.194
> Ge	74		ug/L		142649	142649.457
As	75	6.268	ug/L	10.069	2796	0.017
Se	77		ug/L		5516	-0.029
Se	82	0.622	ug/L	46.211	-1	0.000
Kr	83		ug/L		102	0.000
Sr	88	102.611	ug/L	0.301	579124	6.741
Y	89		ug/L		234988	2.736
Zr	90	78.559	ug/L	0.965	238583	2.775
Mo	98	1.383	ug/L	1.846	1862	0.021
Ag	107	0.345	ug/L	2.794	767	0.008
Cd	111	1.375	ug/L	4.689	682	0.008
Cd	114		ug/L		440	0.005
> In	115		ug/L		85889	85888.645
Sn	120	1.511	ug/L	2.689	3455	0.038
Sb	121	0.181	ug/L	7.764	536	0.004
Sb	123		ug/L		439	0.003
Ba	135		ug/L		333394	4.272
Ba	137	636.130	ug/L	1.862	569195	7.293
Ho	165		ug/L		8672	0.111
> Lu	175		ug/L		78047	78046.732
Tl	205	0.535	ug/L	0.994	1146	0.011
Pb	208	41.851	ug/L	0.488	197234	2.523
Bi	209		ug/L		1799	0.023
Th	232	25.941	ug/L	0.783	157688	2.016
U	238	10.812	ug/L	0.517	68746	0.879

Sample ID: 243626005
 Report Date/Time: Tuesday, January 12, 2010 22:12:35
 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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626005

Report Date/Time: Tuesday, January 12, 2010 22:12:35

Page 2

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	110.2			
|	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	92.8			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	92.8			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	99.6			
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
	Ti	47Sample is out of limits (over linear range)
	Mn	55Sample is out of limits (over linear range)

QC Action

Sample ID: 243626005
 Report Date/Time: Tuesday, January 12, 2010 22:12:35
 Page 3

QC Action Line: Continue

Sample ID: 243626005

Report Date/Time: Tuesday, January 12, 2010 22:12:35

Page 4

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, January 12, 2010 22:16:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 6.106

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.423	ug/L	4.393	10020	0.049
Be	9	49.997	ug/L	0.779	3406	0.017
B	11	96.754	ug/L	1.226	6572	0.032
Na	23	5082.584	ug/L	3.184	8135006	39.475
Mg	24	5179.156	ug/L	3.295	5369483	26.272
Al	27	4834.281	ug/L	4.291	7435827	36.373
P	31	4930.785	ug/L	0.857	374855	1.820
K	39	5455.344	ug/L	5.969	13955527	65.965
Ca	43	4930.937	ug/L	1.606	26536	0.126
> Sc	45		ug/L		204252	204251.794
Ti	47	50.086	ug/L	0.871	12782	0.061
V	51	48.858	ug/L	3.758	104729	0.533
Cr	52	50.982	ug/L	1.056	117830	0.572
Cr	53		ug/L		258825	-0.050
Mn	55	51.884	ug/L	0.408	196143	0.954
Fe	57	4983.293	ug/L	0.413	379258	1.837
Co	59	50.241	ug/L	0.301	138300	0.676
Ni	60	52.090	ug/L	0.537	29922	0.146
Cu	63		ug/L		66441	0.324
Cu	65	50.913	ug/L	0.383	31716	0.155
Zn	66	51.203	ug/L	1.397	16954	0.114
Zn	67		ug/L		14517	0.003
Zn	68		ug/L		12950	0.079
> Ge	74		ug/L		147522	147521.956
As	75	47.920	ug/L	1.070	19504	0.130
Se	77		ug/L		10291	0.002
Se	82	47.748	ug/L	4.799	1801	0.012
Kr	83		ug/L		70	-0.000
Sr	88	50.402	ug/L	2.170	292650	3.311
Y	89		ug/L		80	0.001
Zr	90	49.377	ug/L	1.631	154352	1.744
Mo	98	49.227	ug/L	1.035	66818	0.756
Ag	107	49.474	ug/L	1.449	103300	1.168
Cd	111	49.063	ug/L	1.059	24423	0.276
Cd	114		ug/L		57106	0.646
> In	115		ug/L		88370	88370.412
Sn	120	49.327	ug/L	2.019	110390	1.247
Sb	121	48.148	ug/L	1.595	85154	0.961
Sb	123		ug/L		65166	0.735
Ba	135		ug/L		25335	0.335
Ba	137	49.953	ug/L	1.738	43246	0.573
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		75478	75478.296
Tl	205	48.545	ug/L	0.605	73698	0.972
Pb	208	50.798	ug/L	0.595	231456	3.063
Bi	209		ug/L		56	0.000
Th	232	52.017	ug/L	0.888	305421	4.042
U	238	53.336	ug/L	0.279	327403	4.336

Sample ID: QC Std 6

Report Date/Time: Tuesday, January 12, 2010 22:18:47

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	98.846			
|	Be	9	99.993			
|	B	11	96.754			
|	Na	23	101.652			
|	Mg	24	103.583			
|	Al	27	95.728			
|	P	31	98.616			
|	K	39	109.107			
|	Ca	43	98.619			
>	Sc	45		96.1		
|	Ti	47	100.173			
|	V	51	97.716			
|	Cr	52	101.965			
|	Cr	53				
|	Mn	55	103.768			
|	Fe	57	99.666			
|	Co	59	100.482			
|	Ni	60	104.180			
|	Cu	63				
|	Cu	65	101.827			
|	Zn	66	102.406			
|	Zn	67				
|	Zn	68				
>	Ge	74		96.0		
|	As	75	95.840			
|	Se	77				
|	Se	82	95.496			
|	Kr	83				
|	Sr	88	100.803			
|	Y	89				
|	Zr	90	98.753			
|	Mo	98	98.454			
|	Ag	107	98.949			
|	Cd	111	98.125			
|	Cd	114				
>	In	115		95.5		
|	Sn	120	98.654			
|	Sb	121	96.295			
|	Sb	123				
|	Ba	135				
|	Ba	137	99.906			
|	Ho	165				
>	Lu	175		96.3		
|	Tl	205	97.089			
|	Pb	208	101.596			
|	Bi	209				
|	Th	232	104.034			
|	U	238	106.673			

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: Tuesday, January 12, 2010 22:18:47

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, January 12, 2010 22:22:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 7.107

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.107	ug/L	45.928	44	0.000
Be	9	0.002	ug/L	609.010	4	0.000
B	11	2.070	ug/L	11.111	217	0.001
Na	23	-22.149	ug/L	21.323	36715	-0.172
Mg	24	-0.537	ug/L	313.359	2000	-0.003
Al	27	0.315	ug/L	1.811	4001	0.002
P	31	-5.087	ug/L	38.356	2762	-0.002
K	39	-18.659	ug/L	55.352	442085	-0.226
Ca	43	-6.561	ug/L	34.621	677	-0.000
> Sc	45		ug/L		203897	203897.143
Ti	47	0.326	ug/L	22.027	347	0.000
V	51	2.328	ug/L	13.728	1052	0.025
Cr	52	-0.380	ug/L	12.311	159	-0.004
Cr	53		ug/L		235318	-0.164
Mn	55	0.012	ug/L	57.136	1372	0.000
Fe	57	4.755	ug/L	30.361	4287	0.002
Co	59	0.006	ug/L	47.418	163	0.000
Ni	60	0.003	ug/L	438.083	76	0.000
Cu	63		ug/L		223	0.000
Cu	65	0.019	ug/L	107.238	127	0.000
Zn	66	-0.005	ug/L	412.785	101	-0.000
Zn	67		ug/L		11461	-0.018
Zn	68		ug/L		819	-0.003
> Ge	74		ug/L		147591	147590.712
As	75	-0.514	ug/L	173.081	182	-0.001
Se	77		ug/L		8225	-0.012
Se	82	0.132	ug/L	178.930	-20	0.000
Kr	83		ug/L		62	-0.000
Sr	88	0.007	ug/L	20.045	177	0.000
Y	89		ug/L		24	0.000
Zr	90	0.156	ug/L	17.448	735	0.005
Mo	98	0.038	ug/L	45.334	90	0.001
Ag	107	0.013	ug/L	55.848	96	0.000
Cd	111	0.016	ug/L	104.850	25	0.000
Cd	114		ug/L		36	0.000
> In	115		ug/L		87613	87613.171
Sn	120	0.110	ug/L	7.861	420	0.003
Sb	121	0.498	ug/L	20.682	1101	0.010
Sb	123		ug/L		875	0.008
Ba	135		ug/L		21	0.000
Ba	137	0.021	ug/L	19.684	41	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		75434	75433.730
Tl	205	0.086	ug/L	52.313	429	0.002
Pb	208	0.039	ug/L	13.779	476	0.002
Bi	209		ug/L		18	-0.000
Th	232	0.111	ug/L	33.794	1014	0.009
U	238	0.013	ug/L	13.643	225	0.001

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 22:25:01

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 22:25:01

Page 2

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45		95.9		
|	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		96.0		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115		94.7		
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175		96.2		
|	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#4 - Summary Report

Sample ID: 243626006

Sample Date/Time: Tuesday, January 12, 2010 22:28:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626006.108

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	60.989	ug/L	5.063	14623	0.060
Be	9	3.571	ug/L	6.029	.292	0.001
B	11	16.977	ug/L	4.154	1441	0.006
Na	23	413.031	ug/L	13.529	859636	3.208
Mg	24	9389.429	ug/L	0.756	11513889	47.629
Al	27	75924.390	ug/L	1.793	138041175	571.246
P	31	503.498	ug/L	0.381	48639	0.186
K	39	10472.189	ug/L	1.779	31191909	126.628
Ca	43	7504.523	ug/L	0.543	47347	0.192
> Sc	45		ug/L		241703	241702.886
Ti	47	1782.015	ug/L	0.966	527175	2.180
V	51	99.150	ug/L	1.215	256411	1.081
Cr	52	43.646	ug/L	1.634	119524	0.490
Cr	53		ug/L		185205	-0.551
Mn	55	1572.314	ug/L	1.804	6986095	28.904
Fe	57	47009.412	ug/L	2.347	4193029	17.334
Co	59	22.778	ug/L	1.530	74278	0.307
Ni	60	33.530	ug/L	2.415	22816	0.094
Cu	63		ug/L		39849	0.164
Cu	65	26.846	ug/L	0.970	19851	0.082
Zn	66	126.161	ug/L	2.173	39197	0.281
Zn	67		ug/L		15949	0.019
Zn	68		ug/L		32176	0.223
> Ge	74		ug/L		138943	138942.868
As	75	8.362	ug/L	6.842	3508	0.023
Se	77		ug/L		5477	-0.029
Se	82	0.513	ug/L	55.677	-5	0.000
Kr	83		ug/L		116	0.000
Sr	88	119.321	ug/L	1.683	664691	7.839
Y	89		ug/L		296349	3.495
Zr	90	99.822	ug/L	0.418	299199	3.526
Mo	98	1.681	ug/L	1.322	2226	0.026
Ag	107	0.469	ug/L	7.505	1005	0.011
Cd	111	1.599	ug/L	1.725	780	0.009
Cd	114		ug/L		397	0.004
> In	115		ug/L		84788	84787.668
Sn	120	1.065	ug/L	2.983	2454	0.027
Sb	121	0.362	ug/L	7.817	835	0.007
Sb	123		ug/L		695	0.006
Ba	135		ug/L		404879	5.135
Ba	137	766.878	ug/L	0.743	693201	8.792
Ho	165		ug/L		10863	0.138
> Lu	175		ug/L		78840	78839.747
Tl	205	0.875	ug/L	4.487	1696	0.018
Pb	208	56.192	ug/L	0.179	267404	3.388
Bi	209		ug/L		3057	0.038
Th	232	38.050	ug/L	0.650	233482	2.957
U	238	6.730	ug/L	2.452	43278	0.547

Sample ID: 243626006

Report Date/Time: Tuesday, January 12, 2010 22:31:14

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626006

Report Date/Time: Tuesday, January 12, 2010 22:31:14

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		113.7			
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		90.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.6			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
	Ti	47	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 243626006

Report Date/Time: Tuesday, January 12, 2010 22:31:14

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626006

Report Date/Time: Tuesday, January 12, 2010 22:31:14

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626007

Sample Date/Time: Tuesday, January 12, 2010 22:34:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626007.109

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.825	ug/L	2.976	11210	0.048
Be	9	2.353	ug/L	1.742	186	0.001
B	11	15.290	ug/L	3.153	1250	0.005
Na	23	609.033	ug/L	4.660	1175916	4.730
Mg	24	9215.541	ug/L	1.658	10812270	46.747
Al	27	55982.489	ug/L	2.588	97398702	421.205
P	31	1251.182	ug/L	0.854	110345	0.462
K	39	10609.707	ug/L	5.293	30240936	128.290
Ca	43	10668.442	ug/L	0.836	64065	0.273
> Sc	45		ug/L		231274	231273.668
Ti	47	1450.173	ug/L	0.553	410585	1.774
V	51	83.104	ug/L	1.101	204945	0.906
Cr	52	39.018	ug/L	1.289	102388	0.438
Cr	53		ug/L		180707	-0.536
Mn	55	1738.414	ug/L	0.881	7391658	31.957
Fe	57	39451.337	ug/L	1.295	3368266	14.547
Co	59	18.055	ug/L	1.902	56367	0.243
Ni	60	34.554	ug/L	1.014	22501	0.097
Cu	63		ug/L		52316	0.225
Cu	65	36.297	ug/L	0.989	25638	0.110
Zn	66	132.006	ug/L	0.806	41086	0.295
Zn	67		ug/L		15971	0.019
Zn	68		ug/L		33715	0.233
> Ge	74		ug/L		139193	139193.028
As	75	5.895	ug/L	13.763	2589	0.016
Se	77		ug/L		5144	-0.031
Se	82	0.058	ug/L	691.359	-21	0.000
Kr	83		ug/L		112	0.000
Sr	88	108.472	ug/L	1.123	607845	7.126
Y	89		ug/L		197603	2.317
Zr	90	90.944	ug/L	1.289	274187	3.212
Mo	98	2.570	ug/L	1.738	3402	0.039
Ag	107	0.412	ug/L	3.957	897	0.010
Cd	111	1.911	ug/L	1.780	934	0.011
Cd	114		ug/L		739	0.008
> In	115		ug/L		85281	85280.530
Sn	120	1.013	ug/L	2.989	2355	0.026
Sb	121	0.226	ug/L	3.095	608	0.005
Sb	123		ug/L		502	0.003
Ba	135		ug/L		379254	4.920
Ba	137	728.317	ug/L	0.976	643615	8.350
Ho	165		ug/L		7233	0.094
> Lu	175		ug/L		77078	77078.481
Tl	205	0.600	ug/L	4.965	1232	0.012
Pb	208	49.675	ug/L	1.275	231142	2.995
Bi	209		ug/L		2309	0.030
Th	232	24.724	ug/L	0.397	148446	1.921
U	238	12.561	ug/L	1.276	78855	1.021

Sample ID: 243626007

Report Date/Time: Tuesday, January 12, 2010 22:37:27

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626007

Report Date/Time: Tuesday, January 12, 2010 22:37:27

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		108.8			
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		90.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		92.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
	Ti	47	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

Sample ID: 243626007

Report Date/Time: Tuesday, January 12, 2010 22:37:27

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626007

Report Date/Time: Tuesday, January 12, 2010 22:37:27

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626008

Sample Date/Time: Tuesday, January 12, 2010 22:40:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626008.110

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	68.641	ug/L	2.969	16370	0.068
Be	9	4.229	ug/L	6.259	343	0.001
B	11	17.260	ug/L	2.198	1456	0.006
Na	23	610.902	ug/L	8.238	1226029	4.745
Mg	24	10263.399	ug/L	0.851	12519195	52.062
Al	27	89299.024	ug/L	2.331	161495642	671.875
P	31	483.448	ug/L	1.418	46606	0.178
K	39	10926.070	ug/L	0.974	32333077	132.116
Ca	43	10492.924	ug/L	0.793	65513	0.269
> Sc	45		ug/L		240406	240406.493
Ti	47	1842.991	ug/L	1.449	542283	2.255
V	51	103.740	ug/L	0.956	267085	1.131
Cr	52	41.818	ug/L	1.188	113962	0.469
Cr	53		ug/L		176767	-0.582
Mn	55	1604.755	ug/L	0.495	7093403	29.500
Fe	57	51223.416	ug/L	1.117	4544655	18.887
Co	59	27.915	ug/L	1.464	90504	0.376
Ni	60	33.926	ug/L	2.135	22966	0.095
Cu	63		ug/L		39087	0.162
Cu	65	26.305	ug/L	1.923	19347	0.080
Zn	66	136.620	ug/L	0.496	41860	0.305
Zn	67		ug/L		15845	0.020
Zn	68		ug/L		34446	0.242
> Ge	74		ug/L		137026	137026.425
As	75	9.649	ug/L	12.353	3938	0.026
Se	77		ug/L		5151	-0.030
Se	82	0.142	ug/L	295.322	-18	0.000
Kr	83		ug/L		130	0.000
Sr	88	149.592	ug/L	1.664	831734	9.828
Y	89		ug/L		305702	3.613
Zr	90	109.204	ug/L	1.265	326662	3.857
Mo	98	1.579	ug/L	4.288	2089	0.024
Ag	107	0.513	ug/L	6.303	1091	0.012
Cd	111	1.808	ug/L	15.962	877	0.010
Cd	114		ug/L		359	0.004
> In	115		ug/L		84630	84630.375
Sn	120	1.060	ug/L	2.987	2439	0.027
Sb	121	0.184	ug/L	3.443	534	0.004
Sb	123		ug/L		465	0.003
Ba	135		ug/L		460091	5.828
Ba	137	869.316	ug/L	1.566	786775	9.966
Ho	165		ug/L		11111	0.141
> Lu	175		ug/L		78941	78940.968
Tl	205	0.845	ug/L	3.239	1650	0.017
Pb	208	58.220	ug/L	0.962	277389	3.510
Bi	209		ug/L		3252	0.041
Th	232	40.976	ug/L	1.760	251703	3.184
U	238	4.706	ug/L	1.531	30355	0.383

Sample ID: 243626008

Report Date/Time: Tuesday, January 12, 2010 22:43:42

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626008

Report Date/Time: Tuesday, January 12, 2010 22:43:42

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		113.1			
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		89.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.5			
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	MassOut of Limits Message
Kr 83 Upper, S, EEEAI		27Sample is out of limits (over linear range)
	Ti	47Sample is out of limits (over linear range)
	V	51Sample is out of limits (over linear range)
	Mn	55Sample is out of limits (over linear range)
	Fe	57Sample is out of limits (over linear range)

Sample ID: 243626008

Report Date/Time: Tuesday, January 12, 2010 22:43:42

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626008

Report Date/Time: Tuesday, January 12, 2010 22:43:42

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626009

Sample Date/Time: Tuesday, January 12, 2010 22:47:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626009.111

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	69.431	ug/L	4.494	16722	0.069
Be	9	3.854	ug/L	8.175	316	0.001
B	11	19.064	ug/L	4.799	1615	0.006
Na	23	473.567	ug/L	5.443	978830	3.678
Mg	24	10691.635	ug/L	6.266	13178927	54.235
Al	27	88671.797	ug/L	2.837	162032767	667.156
P	31	808.846	ug/L	0.788	76221	0.298
K	39	11525.039	ug/L	4.107	34425217	139.358
Ca	43	9456.930	ug/L	0.639	59707	0.242
> Sc	45		ug/L		242796	242795.915
Ti	47	1960.327	ug/L	0.544	582607	2.398
V	51	103.516	ug/L	0.754	269187	1.129
Cr	52	50.645	ug/L	1.444	139142	0.568
Cr	53		ug/L		172869	-0.605
Mn	55	1491.239	ug/L	0.923	6657458	27.413
Fe	57	49985.574	ug/L	1.786	4480271	18.431
Co	59	21.493	ug/L	1.230	70418	0.289
Ni	60	38.231	ug/L	0.362	26128	0.107
Cu	63		ug/L		44077	0.181
Cu	65	29.663	ug/L	1.977	22020	0.090
Zn	66	143.435	ug/L	0.289	44063	0.320
Zn	67		ug/L		15951	0.020
Zn	68		ug/L		35229	0.247
> Ge	74		ug/L		137395	137395.264
As	75	8.891	ug/L	8.847	3668	0.024
Se	77		ug/L		4974	-0.032
Se	82	0.060	ug/L	238.603	-21	0.000
Kr	83		ug/L		131	0.000
Sr	88	140.554	ug/L	0.835	771648	9.234
Y	89		ug/L		315855	3.780
Zr	90	113.527	ug/L	0.477	335290	4.010
Mo	98	2.101	ug/L	0.311	2732	0.032
Ag	107	0.523	ug/L	2.352	1098	0.012
Cd	111	1.961	ug/L	5.666	939	0.011
Cd	114		ug/L		375	0.004
> In	115		ug/L		83553	83553.166
Sn	120	1.066	ug/L	3.610	2420	0.027
Sb	121	0.207	ug/L	3.431	564	0.004
Sb	123		ug/L		501	0.003
Ba	135		ug/L		457944	5.803
Ba	137	862.066	ug/L	0.401	779927	9.883
Ho	165		ug/L		11368	0.144
> Lu	175		ug/L		78912	78912.137
Tl	205	0.822	ug/L	7.896	1614	0.016
Pb	208	60.849	ug/L	0.687	289800	3.668
Bi	209		ug/L		3294	0.041
Th	232	39.312	ug/L	0.995	241425	3.055
U	238	8.063	ug/L	1.682	51875	0.655

Sample ID: 243626009

Report Date/Time: Tuesday, January 12, 2010 22:49:56

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626009

Report Date/Time: Tuesday, January 12, 2010 22:49:56

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45			114.2		
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			89.4		
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115			90.3		
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
Kr 83 Upper, S, EEEAI		27Sample is out of limits (over linear range)
	Ti	47Sample is out of limits (over linear range)
	V	51Sample is out of limits (over linear range)
	Mn	55Sample is out of limits (over linear range)

Sample ID: 243626009

Report Date/Time: Tuesday, January 12, 2010 22:49:56

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626009

Report Date/Time: Tuesday, January 12, 2010 22:49:56

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626010

Sample Date/Time: Tuesday, January 12, 2010 22:53:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626010.112

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	77.355	ug/L	3.325	19177	0.077
Be	9	4.532	ug/L	10.380	382	0.002
B	11	20.225	ug/L	1.271	1757	0.007
Na	23	529.752	ug/L	12.044	1115127	4.114
Mg	24	11703.621	ug/L	1.790	14838728	59.368
Al	27	104208.800	ug/L	4.425	196050697	784.054
P	31	509.293	ug/L	0.551	50829	0.188
K	39	13337.618	ug/L	3.652	40891832	161.276
Ca	43	9012.651	ug/L	0.609	58621	0.231
> Sc	45		ug/L		249935	249934.904
Ti	47	2166.018	ug/L	1.011	662563	2.650
V	51	116.316	ug/L	0.671	311998	1.268
Cr	52	52.813	ug/L	2.056	149305	0.592
Cr	53		ug/L		173520	-0.623
Mn	55	1599.829	ug/L	1.270	7351278	29.410
Fe	57	57804.288	ug/L	1.469	5331262	21.314
Co	59	24.779	ug/L	1.265	83544	0.334
Ni	60	38.988	ug/L	2.026	27423	0.109
Cu	63		ug/L		44638	0.178
Cu	65	28.673	ug/L	2.028	21914	0.087
Zn	66	157.168	ug/L	1.733	48147	0.351
Zn	67		ug/L		16775	0.027
Zn	68		ug/L		39103	0.276
> Ge	74		ug/L		137056	137055.740
As	75	10.149	ug/L	5.452	4123	0.027
Se	77		ug/L		4984	-0.032
Se	82	-0.235	ug/L	158.848	-31	-0.000
Kr	83		ug/L		138	0.001
Sr	88	154.675	ug/L	2.666	848500	10.162
Y	89		ug/L		344854	4.130
Zr	90	122.007	ug/L	1.869	360064	4.310
Mo	98	1.710	ug/L	2.779	2229	0.026
Ag	107	0.584	ug/L	3.612	1217	0.014
Cd	111	1.998	ug/L	3.528	956	0.011
Cd	114		ug/L		332	0.004
> In	115		ug/L		83505	83504.703
Sn	120	1.166	ug/L	2.597	2630	0.029
Sb	121	0.177	ug/L	2.701	514	0.004
Sb	123		ug/L		429	0.003
Ba	135		ug/L		510150	6.416
Ba	137	956.274	ug/L	2.330	871672	10.963
Ho	165		ug/L		12749	0.160
> Lu	175		ug/L		79527	79527.262
Tl	205	0.944	ug/L	4.571	1821	0.019
Pb	208	64.633	ug/L	3.202	310079	3.897
Bi	209		ug/L		3552	0.044
Th	232	47.089	ug/L	1.471	291311	3.659
U	238	5.711	ug/L	0.353	37074	0.464

Sample ID: 243626010

Report Date/Time: Tuesday, January 12, 2010 22:56:12

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.6			
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		89.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		90.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
	Ti	47	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)
	Fe	57	Sample is out of limits (over linear range)

Sample ID: 243626010

Report Date/Time: Tuesday, January 12, 2010 22:56:12

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626010

Report Date/Time: Tuesday, January 12, 2010 22:56:12

Page 4

ICPMS#4 - Summary Report

Sample ID: 243626011

Sample Date/Time: Tuesday, January 12, 2010 22:59:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\243626011.113

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	74.690	ug/L	2.117	18211	0.074
Be	9	4.413	ug/L	3.994	366	0.001
B	11	19.578	ug/L	4.217	1675	0.006
Na	23	558.912	ug/L	2.625	1153069	4.341
Mg	24	11522.993	ug/L	1.829	14367491	58.452
Al	27	99548.014	ug/L	1.879	184054900	748.987
P	31	426.244	ug/L	0.644	42445	0.157
K	39	12672.071	ug/L	6.266	38229108	153.228
Ca	43	8487.666	ug/L	1.259	54323	0.218
> Sc	45		ug/L		245737	245737.084
Ti	47	2081.880	ug/L	0.380	626175	2.547
V	51	107.125	ug/L	1.309	282084	1.168
Cr	52	65.464	ug/L	1.281	181687	0.734
Cr	53		ug/L		178233	-0.592
Mn	55	1686.433	ug/L	0.746	7620145	31.002
Fe	57	55812.826	ug/L	1.383	5062334	20.580
Co	59	27.083	ug/L	1.447	89773	0.365
Ni	60	44.309	ug/L	1.078	30633	0.124
Cu	63		ug/L		42270	0.171
Cu	65	27.526	ug/L	1.344	20691	0.084
Zn	66	151.178	ug/L	1.218	46193	0.337
Zn	67		ug/L		16304	0.023
Zn	68		ug/L		37474	0.265
> Ge	74		ug/L		136688	136688.228
As	75	8.899	ug/L	4.297	3650	0.024
Se	77		ug/L		5018	-0.031
Se	82	-0.077	ug/L	340.927	-26	-0.000
Kr	83		ug/L		139	0.001
Sr	88	141.803	ug/L	0.581	786100	9.316
Y	89		ug/L		334429	3.964
Zr	90	116.080	ug/L	1.104	346163	4.100
Mo	98	2.264	ug/L	1.206	2971	0.035
Ag	107	0.543	ug/L	0.434	1147	0.013
Cd	111	2.010	ug/L	2.724	971	0.011
Cd	114		ug/L		366	0.004
> In	115		ug/L		84368	84367.809
Sn	120	1.141	ug/L	2.375	2604	0.029
Sb	121	0.179	ug/L	1.377	523	0.004
Sb	123		ug/L		430	0.003
Ba	135		ug/L		483681	6.169
Ba	137	905.757	ug/L	2.149	814123	10.384
Ho	165		ug/L		12186	0.155
> Lu	175		ug/L		78411	78410.735
Tl	205	0.947	ug/L	2.685	1799	0.019
Pb	208	61.816	ug/L	1.850	292492	3.727
Bi	209		ug/L		3452	0.044
Th	232	44.648	ug/L	0.803	272385	3.469
U	238	6.022	ug/L	1.342	38533	0.490

Sample ID: 243626011

Report Date/Time: Tuesday, January 12, 2010 23:02:28

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 243626011

Report Date/Time: Tuesday, January 12, 2010 23:02:28

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.6			
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		88.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.2			
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
Kr 83 Upper, S, EEEAI		27	Sample is out of limits (over linear range)
	Ti	47	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)
	Fe	57	Sample is out of limits (over linear range)

Sample ID: 243626011

Report Date/Time: Tuesday, January 12, 2010 23:02:28

Page 3

QC Action

QC Action Line: Continue

Sample ID: 243626011

Report Date/Time: Tuesday, January 12, 2010 23:02:28

Page 4

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, January 12, 2010 23:05:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 6.114

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.928	ug/L	5.303	9361	0.047
Be	9	49.224	ug/L	1.506	3232	0.016
B	11	98.779	ug/L	1.896	6463	0.032
Na	23	5085.948	ug/L	3.416	7846786	39.501
Mg	24	5684.804	ug/L	5.105	5675787	28.837
Al	27	4914.469	ug/L	0.401	7281963	36.976
P	31	5147.026	ug/L	1.121	376923	1.899
K	39	5350.277	ug/L	1.212	13206635	64.694
Ca	43	4901.198	ug/L	2.289	25430	0.126
> Sc	45		ug/L		196852	196852.221
Ti	47	50.021	ug/L	1.260	12301	0.061
V	51	48.779	ug/L	7.552	100717	0.532
Cr	52	51.070	ug/L	1.275	113740	0.573
Cr	53		ug/L		249197	-0.051
Mn	55	51.993	ug/L	1.805	189392	0.956
Fe	57	4999.561	ug/L	1.414	366600	1.843
Co	59	50.365	ug/L	1.407	133588	0.678
Ni	60	52.842	ug/L	2.693	29242	0.148
Cu	63		ug/L		64056	0.325
Cu	65	51.086	ug/L	1.726	30660	0.155
Zn	66	51.103	ug/L	0.139	16465	0.114
Zn	67		ug/L		13687	-0.000
Zn	68		ug/L		12491	0.078
> Ge	74		ug/L		143540	143539.726
As	75	48.296	ug/L	0.939	19122	0.131
Se	77		ug/L		9762	0.000
Se	82	47.820	ug/L	1.944	1755	0.012
Kr	83		ug/L		64	-0.000
Sr	88	50.559	ug/L	0.243	283114	3.322
Y	89		ug/L		107	0.001
Zr	90	50.862	ug/L	1.949	153279	1.797
Mo	98	49.370	ug/L	1.171	64618	0.758
Ag	107	49.848	ug/L	0.553	100354	1.177
Cd	111	50.266	ug/L	2.425	24122	0.283
Cd	114		ug/L		56155	0.659
> In	115		ug/L		85194	85193.542
Sn	120	49.658	ug/L	0.576	107167	1.256
Sb	121	47.799	ug/L	2.584	81527	0.954
Sb	123		ug/L		62770	0.734
Ba	135		ug/L		25056	0.338
Ba	137	50.005	ug/L	1.115	42463	0.573
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		74028	74027.723
Tl	205	48.387	ug/L	1.516	72051	0.969
Pb	208	51.121	ug/L	0.247	228449	3.082
Bi	209		ug/L		57	0.000
Th	232	52.118	ug/L	3.005	300103	4.050
U	238	53.331	ug/L	0.350	321078	4.335

Sample ID: QC Std 6

Report Date/Time: Tuesday, January 12, 2010 23:08:40

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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 6

Report Date/Time: Tuesday, January 12, 2010 23:08:40

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	95.855				
Be	9	98.448				
B	11	98.779				
Na	23	101.719				
Mg	24	113.696				
Al	27	97.316				
P	31	102.941				
K	39	107.006				
Ca	43	98.024				
> Sc	45		92.6			
Ti	47	100.043				
V	51	97.558				
Cr	52	102.139				
Cr	53					
Mn	55	103.987				
Fe	57	99.991				
Co	59	100.731				
Ni	60	105.685				
Cu	63					
Cu	65	102.172				
Zn	66	102.207				
Zn	67					
Zn	68					
> Ge	74		93.4			
As	75	96.591				
Se	77					
Se	82	95.641				
Kr	83					
Sr	88	101.118				
Y	89					
Zr	90	101.724				
Mo	98	98.739				
Ag	107	99.696				
Cd	111	100.532				
Cd	114					
> In	115		92.1			
Sn	120	99.316				
Sb	121	95.599				
Sb	123					
Ba	135					
Ba	137	100.009				
Ho	165					
> Lu	175		94.4			
Tl	205	96.775				
Pb	208	102.241				
Bi	209					
Th	232	104.237				
U	238	106.662				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 6
 Report Date/Time: Tuesday, January 12, 2010 23:08:40
 Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, January 12, 2010 23:12:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\dataset\100112\QC Std 7.115

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.126	ug/L	23.883	46	0.000
Be	9	-0.005	ug/L	466.515	3	-0.000
B	11	2.077	ug/L	37.164	208	0.001
Na	23	-29.489	ug/L	9.592	24021	-0.229
Mg	24	-0.118	ug/L	984.455	2334	-0.001
Al	27	1.106	ug/L	182.457	5001	0.008
P	31	-6.782	ug/L	26.778	2520	-0.003
K	39	-16.012	ug/L	94.604	429041	-0.194
Ca	43	-19.873	ug/L	36.076	581	-0.001
> Sc	45		ug/L		195036	195035.658
Ti	47	0.290	ug/L	35.889	324	0.000
V	51	-0.853	ug/L	203.772	-5772	-0.009
Cr	52	-0.404	ug/L	34.045	101	-0.005
Cr	53		ug/L		222154	-0.179
Mn	55	0.019	ug/L	32.998	1338	0.000
Fe	57	6.167	ug/L	31.124	4201	0.002
Co	59	0.005	ug/L	108.825	152	0.000
Ni	60	-0.001	ug/L	1020.042	71	-0.000
Cu	63		ug/L		203	0.000
Cu	65	0.005	ug/L	237.279	113	0.000
Zn	66	-0.002	ug/L	1981.020	99	-0.000
Zn	67		ug/L		10344	-0.023
Zn	68		ug/L		728	-0.004
> Ge	74		ug/L		142475	142474.799
As	75	-0.041	ug/L	2020.091	359	-0.000
Se	77		ug/L		7616	-0.014
Se	82	0.111	ug/L	349.622	-20	0.000
Kr	83		ug/L		65	-0.000
Sr	88	0.005	ug/L	85.547	158	0.000
Y	89		ug/L		33	0.000
Zr	90	0.168	ug/L	13.218	743	0.006
Mo	98	0.029	ug/L	22.175	75	0.000
Ag	107	0.010	ug/L	43.058	85	0.000
Cd	111	0.008	ug/L	227.721	21	0.000
Cd	114		ug/L		37	0.000
> In	115		ug/L		84129	84128.881
Sn	120	0.098	ug/L	9.995	377	0.002
Sb	121	0.423	ug/L	22.134	932	0.008
Sb	123		ug/L		775	0.007
Ba	135		ug/L		23	0.000
Ba	137	0.022	ug/L	38.273	40	0.000
Ho	165		ug/L		9	0.000
> Lu	175		ug/L		72372	72372.251
Tl	205	0.029	ug/L	134.160	329	0.001
Pb	208	0.036	ug/L	14.856	445	0.002
Bi	209		ug/L		14	-0.000
Th	232	0.102	ug/L	24.188	925	0.008
U	238	0.015	ug/L	24.377	230	0.001

Sample ID: QC Std 7

Report Date/Time: Tuesday, January 12, 2010 23:14:54

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	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	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
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 % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	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	92.7			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	90.9			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	92.3			
|	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 7

Report Date/Time: Tuesday, January 12, 2010 23:14:54

Page 3

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, January 14, 2010 11:51:22

Sample Description:

Method File: C:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\090811\Sample.356

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	1250.1	1250.055	27.661	2.2
Mg	24.0	18900.3	18900.295	145.654	0.8
Co	58.9	47612.8	47612.816	381.058	0.8
Rh	102.9	90147.1	90147.139	463.368	0.5
In	114.9	120298.0	120298.011	1009.425	0.8
Pb	208.0	42306.4	42306.353	263.865	0.6
[> Ba	137.9	97823.1	97823.144	541.480	0.6
[Ba++	69.0	1811.1	0.019	0.001	3.4
[> Ce	139.9	116201.1	116201.083	352.735	0.3
[CeO	155.9	2803.1	0.024	0.000	1.1
Bkgd	220.0	6.4	6.400	2.702	42.2

Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
9.00	Lens Voltage
1000.00	ICP RF Power
-1875.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
50.00	Discriminator Threshold
-2.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	8.5	1144.7
Co	59	13	8.8	36254.6
In	115	13	9.5	87651.1

ICPMS #4 TUNING REPORT

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	603	2060	0.684
Be	9.0	9.0	2052	2045	0.748
Mg	24.0	24.0	5687	2075	0.706
Mg	25.0	25.0	5949	2080	0.755
Mg	26.0	25.9	6154	2085	0.706
Co	58.9	58.9	14166	2140	0.711
Rh	102.9	102.9	24865	2230	0.693
In	114.9	114.9	27774	2255	0.708
Ce	139.9	139.9	33851	2310	0.665
Pb	206.0	205.9	49933	2500	0.700
Pb	207.0	207.0	50101	2380	0.613
Pb	208.0	208.0	50448	2570	0.632
U	238.1	238.0	57691	2510	0.647

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, January 14, 2010 20:34:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\Blank.117

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	ug/L		3	
>	Sc	45	ug/L		236562	
[	Ni	60	ug/L		34	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45				
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Thursday, January 14, 2010 20:34:46

Page 1

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, January 14, 2010 20:38:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\Standard 1.118

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000 ug/L	5.111	619	0.003
|>	Sc	45	ug/L		242678	242678.296
[	Ni	60	10.000 ug/L	0.852	4621	0.019

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45				
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Thursday, January 14, 2010 20:38:22

Page 1

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, January 14, 2010 20:41:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\Standard 2.119

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.947	ug/L	0.907	5965	0.024
Sc	45		ug/L		247463	247463.082
Ni	60	99.974	ug/L	0.574	45582	0.184

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45					
Ni	60					

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, January 14, 2010 20:41:59

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, January 14, 2010 20:45:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 1.120

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.128 ug/L	2.473	3110	0.012
|>	Sc	45	ug/L		252117	252116.807
[	Ni	60	51.307 ug/L	0.540	23850	0.094

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	102.255			
|>	Sc	45		106.6		
[	Ni	60	102.614			

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: Thursday, January 14, 2010 20:45:37

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, January 14, 2010 20:49:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 2.121

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.018	ug/L	185.869	5	0.000
> Sc	45		ug/L		252955	252954.652
[Ni	60	0.007	ug/L	447.956	40	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
> Sc	45		106.9			
[Ni	60					

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: Thursday, January 14, 2010 20:49:18

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, January 14, 2010 20:52:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 3.122

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.609 ug/L	13.051	40	0.000
| >	Sc	45	ug/L		250773	250772.876
[	Ni	60	2.172 ug/L	2.240	1039	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	121.752			
| >	Sc	45		106.0		
[	Ni	60	108.606			

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 3

Report Date/Time: Thursday, January 14, 2010 20:52:57

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, January 14, 2010 20:56:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 4.123

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.026 ug/L	222.358	5	0.000
|>	Sc	45	ug/L		244291	244290.544
[	Ni	60	3.265 ug/L	4.656	1503	0.006

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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		103.3		
[	Ni	60	120.937			

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: Thursday, January 14, 2010 20:56:35

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, January 14, 2010 21:00:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 5.124

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	19.166 ug/L	0.997	1108	0.005
|>	Sc	45	ug/L		239240	239239.771
[	Ni	60	22.424 ug/L	1.809	9911	0.041

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	95.829			
|>	Sc	45		101.1		
[	Ni	60	98.785			

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: Thursday, January 14, 2010 21:00:15

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, January 14, 2010 21:03:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 6.125

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.690 ug/L	3.513	3044	0.012
|>	Sc	45	ug/L		248906	248905.935
[	Ni	60	51.667 ug/L	0.263	23711	0.095

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	101.381			
|>	Sc	45		105.2		
[	Ni	60	103.333			

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: Thursday, January 14, 2010 21:03:54

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, January 14, 2010 21:07:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 7.126

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	0.059	ug/L	32.137	7	0.000
> Sc 45		ug/L		248424	248423.723
[Ni 60	0.009	ug/L	179.034	40	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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		105.0			
[Ni 60					

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, January 14, 2010 21:07:36

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006073

Sample Date/Time: Thursday, January 14, 2010 21:11:00

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006073.127

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.001 ug/L	677.533	4	0.000
|>	Sc	45	ug/L		254122	254122.275
[	Ni	60	0.066 ug/L	13.324	67	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45	107.4			
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006073

Report Date/Time: Thursday, January 14, 2010 21:11:14

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006074

Sample Date/Time: Thursday, January 14, 2010 21:14:39

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 937507[40]skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006074.128

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	22.469 ug/L	2.227	1399	0.005
>	Sc	45	ug/L		257695	257694.702
[	Ni	60	40.477 ug/L	1.576	19241	0.075

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45	108.9			
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006074

Report Date/Time: Thursday, January 14, 2010 21:14:53

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, January 14, 2010 21:18:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 6.129

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.133 ug/L	1.174	3130	0.012
|>	Sc	45	ug/L		253741	253740.580
[	Ni	60	51.635 ug/L	1.396	24157	0.095

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup.	Rel. % Diff
[	Be	9	102.267								
|>	Sc	45			107.3						
[	Ni	60	103.270								

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: Thursday, January 14, 2010 21:18:33

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, January 14, 2010 21:21:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 7.130

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.010	ug/L	440.616	3	-0.000
> Sc	45		ug/L		257239	257239.015
[Ni	60	-0.000	ug/L	39375.823	37	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup.	Rel. % Diff
[Be	9										
> Sc	45				108.7						
[Ni	60										

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, January 14, 2010 21:22:15

Page 1

ICPMS#4 - Summary Report

Sample ID: 243626001

Sample Date/Time: Thursday, January 14, 2010 21:25:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\243626001.131

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	5.325	ug/L	0.522	358	0.001
Sc	45		ug/L		275919	275918.910
Ni	60	51.183	ug/L	1.248	26038	0.094

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		116.6			
Ni	60					

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: 243626001

Report Date/Time: Thursday, January 14, 2010 21:25:54

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006075

Sample Date/Time: Thursday, January 14, 2010 21:29:19

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006075.132

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	5.410 ug/L	6.721	358	0.001
|>	Sc	45	ug/L		271916	271915.821
[	Ni	60	52.699 ug/L	0.719	26420	0.097

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45	114.9			
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006075

Report Date/Time: Thursday, January 14, 2010 21:29:34

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006076

Sample Date/Time: Thursday, January 14, 2010 21:32:59

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 937507|2|skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006076.133

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	29.690 ug/L	2.680	1992	0.007
|>	Sc	45	ug/L		277907	277906.511
[	Ni	60	77.914 ug/L	0.502	39902	0.143

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	117.5			
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006076

Report Date/Time: Thursday, January 14, 2010 21:33:15

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006078

Sample Date/Time: Thursday, January 14, 2010 21:36:38

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 937507[2]skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006078.134

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	28.049	ug/L	2.877	1851	0.007
|>	Sc 45		ug/L		273292	273292.082
[	Ni 60	73.619	ug/L	0.809	37079	0.136

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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		115.5			
[	Ni 60					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006078

Report Date/Time: Thursday, January 14, 2010 21:36:52

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202006077

Sample Date/Time: Thursday, January 14, 2010 21:40:16

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 937507|10|skj

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\1202006077.135

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.452	ug/L	15.550	89	0.000
Sc	45		ug/L		244334	244333.641
Ni	60	12.217	ug/L	1.466	5530	0.022

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		103.3			
Ni	60					

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: 1202006077

Report Date/Time: Thursday, January 14, 2010 21:40:30

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, January 14, 2010 21:43:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 6.136

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.957 ug/L	2.394	3034	0.013
| >	Sc	45	ug/L		237447	237447.115
[	Ni	60	51.283 ug/L	0.777	22452	0.094

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	105.914			
| >	Sc	45		100.4		
[	Ni	60	102.566			

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: Thursday, January 14, 2010 21:44:10

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, January 14, 2010 21:47:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni only.mth

Dataset File: c:\elandata\dataset\100114\QC Std 7.137

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9	-0.002	ug/L	1174.444	3	-0.000
> Sc 45		ug/L		246412	246412.161
[Ni 60	0.003	ug/L	231.065	37	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be 9					
> Sc 45		104.2			
[Ni 60					

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, January 14, 2010 21:47:52

Page 1

Method Name: SOIL
 Method Description: 7471A, ILM04 ANALYST JXL1
 Element: Hg

Date: 01/13/2010

Technique: FI-MHS

Calibration Type:

Hg, Calc. Intercept : Linear

Wavelength: 253.7 nm

Sample Info Name: 011310S1.SIF

Results Data Set Name: 011310S1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 01/13/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0044	0.0044	09:44:09	No
2			0.0045	0.0045	09:44:44	No
Mean:			0.0044			
SD :			0.0000			
%RSD:			0.9333			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 01/13/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0025	0.0069	09:46:06	No
2			0.0023	0.0068	09:46:41	No
Mean:			0.0024			
SD :			0.0001			
%RSD:			4.5998			

[Hg] Standard number 1 applied. [0.200]
 Correlation Coefficient: 1.00000 Slope: 0.01208
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 01/13/2010
 Sample ID: S0.5

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0049	0.0093	09:48:05	No
2			0.0049	0.0094	09:48:40	No
Mean:			0.0049			
SD :			0.0000			
%RSD:			0.1993			

[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.99456 Slope: 0.00973
 Intercept : 0.00018

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 01/13/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0188	0.0232	09:50:05	No
2			0.0193	0.0237	09:50:39	No
Mean:			0.0190			
SD :			0.0004			
%RSD:			1.8677			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99967
Intercept : 0.00025

Slope: 0.00940

=====

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 01/13/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0464	0.0508	09:52:04	No
2			0.0477	0.0522	09:52:40	No
Mean:			0.0471			
SD :			0.0009			
%RSD:			1.9792			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99995 Slope: 0.00937
Intercept : 0.00026

=====

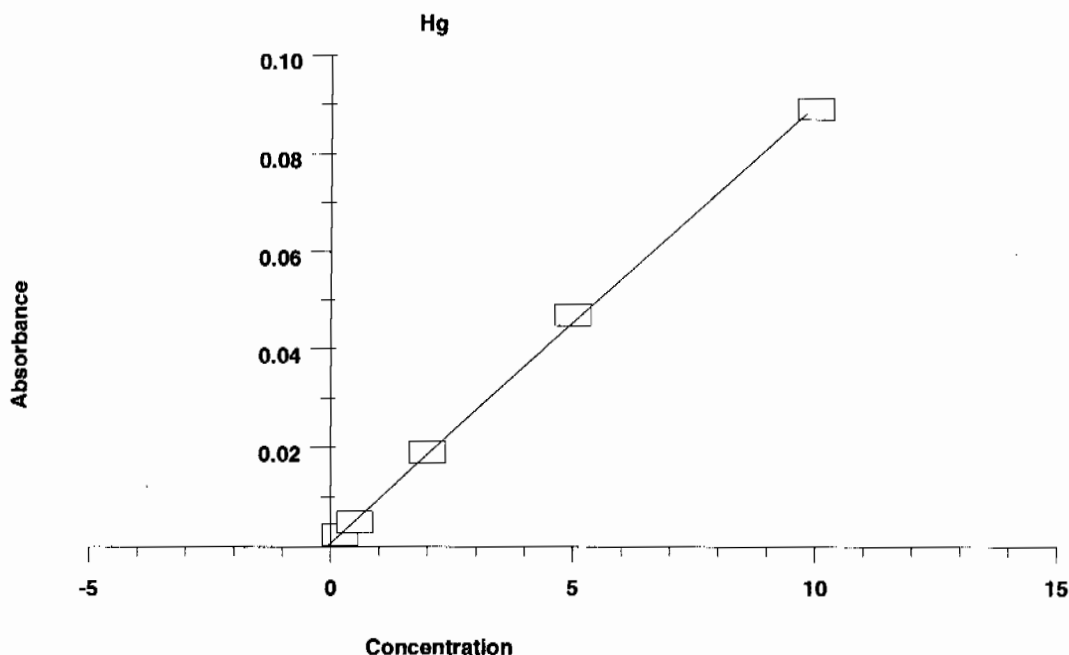
Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 01/13/2010
Sample ID: S10

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0888	0.0932	09:54:06	No
2			0.0901	0.0946	09:54:41	No
Mean:			0.0895			
SD :			0.0009			
%RSD:			1.0502			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99968 Slope: 0.00896
Intercept : 0.00072

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0044	---	---	---	---
S0.2	0.0024	0.200	0.189	0.0001	4.6
S0.5	0.0049	0.500	0.469	0.0000	0.2
S2.0	0.0190	2.000	2.042	0.0004	1.9
S5.0	0.0471	5.000	5.175	0.0009	2.0
S10	0.0895	10.000	9.906	0.0009	1.1
Correlation Coefficient: 0.99968		Slope:	0.00896	Intercept:	0.0007



=====
 Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 01/13/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.015	5.015	0.0456	0.0501	09:56:09	No
2	5.229	5.229	0.0476	0.0520	09:56:44	No
Mean:	5.122	5.122	0.0466			
SD :	0.1518	0.1518	0.0014			
%RSD:	3.0	3.0	2.9173			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 01/13/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.113	-0.113	-0.0003	0.0041	09:58:06	No
2	-0.098	-0.098	-0.0002	0.0043	09:58:41	No
Mean:	-0.105	-0.105	-0.0002			
SD :	0.0110	0.0110	0.0001			
%RSD:	10.5	10.5	44.7675			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 01/13/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.132	0.132	0.0019	0.0063	10:00:03	No
2	0.142	0.142	0.0020	0.0064	10:00:38	No
Mean:	0.137	0.137	0.0020			
SD :	0.0069	0.0069	0.0001			
%RSD:	5.1	5.1	3.1880			

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 01/13/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.068	5.068	0.0461	0.0506	10:02:03	No
2	5.051	5.051	0.0460	0.0504	10:02:38	No
Mean:	5.060	5.060	0.0461			
SD :	0.0123	0.0123	0.0001			
%RSD:	0.2	0.2	0.2391			

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 01/13/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.074	-0.074	0.0001	0.0045	10:04:06	No
2	-0.082	-0.082	0.0000	0.0044	10:04:41	No
Mean:	-0.078	-0.078	0.0000			
SD :	0.0057	0.0057	0.0001			
%RSD:	7.3	7.3	185.5036			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 01/13/2010

Sample ID: LDR

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	9.831	9.831	0.0888	0.0932	10:06:07	No
2	9.916	9.916	0.0896	0.0940	10:06:41	No
Mean:	9.873	9.873	0.0892			
SD :	0.0599	0.0599	0.0005			
%RSD:	0.6	0.6	0.6022			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 01/13/2010

Sample ID: IDL1

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.150	-0.150	-0.0006	0.0038	10:08:06	No
2	-0.156	-0.156	-0.0007	0.0037	10:08:41	No
Mean:	-0.153	-0.153	-0.0006			
SD :	0.0042	0.0042	0.0000			
%RSD:	2.8	2.8	5.8385			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 01/13/2010

Sample ID: IDL2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.168	-0.168	-0.0008	0.0036	10:10:07	No
2	-0.184	-0.184	-0.0009	0.0035	10:10:41	No
Mean:	-0.176	-0.176	-0.0009			
SD :	0.0115	0.0115	0.0001			
%RSD:	6.5	6.5	12.0192			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 01/13/2010

Sample ID: IDL3

%RSD: 0.4 0.4 0.6832

=====

Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 01/13/2010
 Sample ID: 1202012343|i|10|LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.724	3.724	0.0341	0.0385	10:23:55	No
2	3.733	3.733	0.0342	0.0386	10:24:30	No
Mean:	3.728	3.728	0.0341			
SD :	0.0063	0.0063	0.0001			
%RSD:	0.2	0.2	0.1661			

=====

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 01/13/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.911	4.911	0.0447	0.0491	10:25:55	No
2	5.042	5.042	0.0459	0.0503	10:26:29	No
Mean:	4.977	4.977	0.0453			
SD :	0.0924	0.0924	0.0008			
%RSD:	1.9	1.9	1.8260			

QC value within specified limits.

=====

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 01/13/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.110	-0.110	-0.0003	0.0042	10:27:57	No
2	-0.138	-0.138	-0.0005	0.0039	10:28:31	No
Mean:	-0.124	-0.124	-0.0004			
SD :	0.0194	0.0194	0.0002			
%RSD:	15.6	15.6	44.7622			

QC value within specified limits.

=====

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 01/13/2010
 Sample ID: 243628001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.151	0.151	0.0021	0.0065	10:29:56	No
2	0.129	0.129	0.0019	0.0063	10:30:31	No
Mean:	0.140	0.140	0.0020			
SD :	0.0155	0.0155	0.0001			
%RSD:	11.1	11.1	7.0311			

=====

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 01/13/2010
 Sample ID: 1202012344|i|||DUP

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.153	0.153	0.0021	0.0065	10:31:55	No
2	0.156	0.156	0.0021	0.0065	10:32:30	No
Mean:	0.154	0.154	0.0021			
SD :	0.0023	0.0023	0.0000			
%RSD:	1.5	1.5	0.9855			

=====

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 01/13/2010
 Sample ID: 1202012345|i|||MS

%RSD: 10.3 10.3 6.4331

=====
 Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 01/13/2010
 Sample ID: 243628005|i|

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.088	0.088	0.0015	0.0059	10:45:56	No
2	0.068	0.068	0.0013	0.0058	10:46:30	No
Mean:	0.078	0.078	0.0014			
SD :	0.0141	0.0141	0.0001			
%RSD:	18.1	18.1	8.8863			

=====
 Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 01/13/2010
 Sample ID: 243628006|i|

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.147	0.147	0.0020	0.0065	10:47:57	No
2	0.134	0.134	0.0019	0.0063	10:48:31	No
Mean:	0.141	0.141	0.0020			
SD :	0.0092	0.0092	0.0001			
%RSD:	6.5	6.5	4.1427			

=====
 Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 01/13/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.262	5.262	0.0479	0.0523	10:49:58	No
2	5.179	5.179	0.0471	0.0515	10:50:32	No
Mean:	5.220	5.220	0.0475			
SD :	0.0584	0.0584	0.0005			
%RSD:	1.1	1.1	1.1008			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 01/13/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.152	-0.152	-0.0006	0.0038	10:52:01	No
2	-0.175	-0.175	-0.0008	0.0036	10:52:36	No
Mean:	-0.163	-0.163	-0.0007			
SD :	0.0163	0.0163	0.0001			
%RSD:	10.0	10.0	19.8082			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 01/13/2010
 Sample ID: 243628007|i|

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.100	0.100	0.0016	0.0060	10:54:00	No
2	0.055	0.055	0.0012	0.0056	10:54:35	No
Mean:	0.077	0.077	0.0014			
SD :	0.0318	0.0318	0.0003			
%RSD:	41.2	41.2	20.1140			

=====
 Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 01/13/2010
 Sample ID: 243628008|i|

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.139	0.139	0.0020	0.0064	10:55:55	No
2	0.118	0.118	0.0018	0.0062	10:56:30	No
Mean:	0.128	0.128	0.0019			
SD :	0.0146	0.0146	0.0001			
%RSD:	11.4	11.4	6.9845			

=====
 Element: Hg Seq. No.: 38 AS Loc.: 34 Date: 01/13/2010
 Sample ID: 243628009|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.103	0.103	0.0016	0.0061	10:57:51	No
2	0.120	0.120	0.0018	0.0062	10:58:26	No
Mean:	0.111	0.111	0.0017			
SD :	0.0121	0.0121	0.0001			
%RSD:	10.9	10.9	6.3122			

=====
 Element: Hg Seq. No.: 39 AS Loc.: 35 Date: 01/13/2010
 Sample ID: 243628010|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.094	0.094	0.0016	0.0060	10:59:47	No
2	0.073	0.073	0.0014	0.0058	11:00:21	No
Mean:	0.083	0.083	0.0015			
SD :	0.0152	0.0152	0.0001			
%RSD:	18.2	18.2	9.2432			

=====
 Element: Hg Seq. No.: 40 AS Loc.: 36 Date: 01/13/2010
 Sample ID: 243628011|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.022	0.022	0.0009	0.0053	11:01:43	No
2	0.013	0.013	0.0008	0.0053	11:02:18	No
Mean:	0.017	0.017	0.0009			
SD :	0.0060	0.0060	0.0001			
%RSD:	34.6	34.6	6.1313			

=====
 Element: Hg Seq. No.: 41 AS Loc.: 37 Date: 01/13/2010
 Sample ID: 1202012330|i||940322|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.179	-0.179	-0.0009	0.0035	11:03:40	No
2	-0.196	-0.196	-0.0010	0.0034	11:04:15	No
Mean:	-0.187	-0.187	-0.0010			
SD :	0.0122	0.0122	0.0001			
%RSD:	6.5	6.5	11.4869			

=====
 Element: Hg Seq. No.: 42 AS Loc.: 38 Date: 01/13/2010
 Sample ID: 1202012331|i|10|LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	3.692	3.692	0.0338	0.0382	11:05:37	No
2	3.819	3.819	0.0349	0.0394	11:06:12	No
Mean:	3.756	3.756	0.0344			
SD :	0.0895	0.0895	0.0008			

%RSD: 2.4 2.4 2.3330

=====
 Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 01/13/2010
 Sample ID: 243626001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.030	0.030	0.0010	0.0054	11:07:35	No
2	0.015	0.015	0.0009	0.0053	11:08:10	No
Mean:	0.023	0.023	0.0009			
SD :	0.0102	0.0102	0.0001			
%RSD:	45.3	45.3	9.8819			

=====
 Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 01/13/2010
 Sample ID: 1202012332|i|||DUP

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.035	0.035	0.0010	0.0055	11:09:34	No
2	0.018	0.018	0.0009	0.0053	11:10:09	No
Mean:	0.027	0.027	0.0010			
SD :	0.0118	0.0118	0.0001			
%RSD:	44.3	44.3	11.0112			

=====
 Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 01/13/2010
 Sample ID: 1202012333|i|||MS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.156	2.156	0.0200	0.0245	11:11:33	No
2	2.145	2.145	0.0199	0.0244	11:12:08	No
Mean:	2.150	2.150	0.0200			
SD :	0.0080	0.0080	0.0001			
%RSD:	0.4	0.4	0.3567			

=====
 Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 01/13/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.374	5.374	0.0489	0.0533	11:13:33	No
2	5.386	5.386	0.0490	0.0534	11:14:09	No
Mean:	5.380	5.380	0.0489			
SD :	0.0090	0.0090	0.0001			
%RSD:	0.2	0.2	0.1641			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 01/13/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.002	-0.002	0.0007	0.0051	11:15:37	No
2	-0.023	-0.023	0.0005	0.0049	11:16:12	No
Mean:	-0.012	-0.012	0.0006			
SD :	0.0149	0.0149	0.0001			
%RSD:	123.6	123.6	21.5952			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 01/13/2010
 Sample ID: 1202012335|i|||MSD

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.231	2.231	0.0207	0.0251	11:17:38	No
2	2.228	2.228	0.0207	0.0251	11:18:12	No
Mean:	2.229	2.229	0.0207			
SD :	0.0025	0.0025	0.0000			
%RSD:	0.1	0.1	0.1093			

=====
 Element: Hg Seq. No.: 49 AS Loc.: 43 Date: 01/13/2010
 Sample ID: 1202012334|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.231	-0.231	-0.0013	0.0031	11:19:37	No
2	-0.254	-0.254	-0.0015	0.0029	11:20:11	No
Mean:	-0.242	-0.242	-0.0014			
SD :	0.0159	0.0159	0.0001			
%RSD:	6.6	6.6	9.8601			

=====
 Element: Hg Seq. No.: 50 AS Loc.: 44 Date: 01/13/2010
 Sample ID: 243626002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.010	-0.010	0.0006	0.0051	11:21:37	No
2	-0.023	-0.023	0.0005	0.0049	11:22:12	No
Mean:	-0.017	-0.017	0.0006			
SD :	0.0097	0.0097	0.0001			
%RSD:	58.8	58.8	15.1762			

=====
 Element: Hg Seq. No.: 51 AS Loc.: 45 Date: 01/13/2010
 Sample ID: 243626003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.091	0.091	0.0015	0.0060	11:23:38	No
2	0.067	0.067	0.0013	0.0057	11:24:13	No
Mean:	0.079	0.079	0.0014			
SD :	0.0172	0.0172	0.0002			
%RSD:	21.7	21.7	10.7355			

=====
 Element: Hg Seq. No.: 52 AS Loc.: 46 Date: 01/13/2010
 Sample ID: 243626004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.040	0.040	0.0011	0.0055	11:25:39	No
2	0.034	0.034	0.0010	0.0054	11:26:14	No
Mean:	0.037	0.037	0.0011			
SD :	0.0046	0.0046	0.0000			
%RSD:	12.4	12.4	3.8734			

=====
 Element: Hg Seq. No.: 53 AS Loc.: 47 Date: 01/13/2010
 Sample ID: 243626005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.021	-0.021	0.0005	0.0050	11:27:41	No
2	-0.040	-0.040	0.0004	0.0048	11:28:16	No
Mean:	-0.031	-0.031	0.0004			
SD :	0.0133	0.0133	0.0001			

%RSD: 43.2 43.2 26.5277

=====
 Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 01/13/2010
 Sample ID: 243626006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.087	0.087	0.0015	0.0059	11:29:40	No
2	0.094	0.094	0.0016	0.0060	11:30:15	No
Mean:	0.091	0.091	0.0015			
SD :	0.0049	0.0049	0.0000			
%RSD:	5.4	5.4	2.8544			

=====
 Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 01/13/2010
 Sample ID: 243626007|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.016	-0.016	0.0006	0.0050	11:31:35	No
2	-0.024	-0.024	0.0005	0.0049	11:32:10	No
Mean:	-0.020	-0.020	0.0005			
SD :	0.0054	0.0054	0.0000			
%RSD:	27.0	27.0	8.8458			

=====
 Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 01/13/2010
 Sample ID: 243626008|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.477	0.477	0.0050	0.0094	11:33:30	No
2	0.471	0.471	0.0049	0.0094	11:34:04	No
Mean:	0.474	0.474	0.0050			
SD :	0.0042	0.0042	0.0000			
%RSD:	0.9	0.9	0.7608			

=====
 Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 01/13/2010
 Sample ID: 243626009|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.143	0.143	0.0020	0.0064	11:35:25	No
2	0.164	0.164	0.0022	0.0066	11:36:00	No
Mean:	0.154	0.154	0.0021			
SD :	0.0151	0.0151	0.0001			
%RSD:	9.8	9.8	6.4369			

=====
 Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 01/13/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.493	5.493	0.0499	0.0544	11:37:24	No
2	5.423	5.423	0.0493	0.0537	11:38:00	No
Mean:	5.458	5.458	0.0496			
SD :	0.0495	0.0495	0.0004			
%RSD:	0.9	0.9	0.8933			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 01/13/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.077	-0.077	0.0000	0.0045	11:39:28	No
2	-0.100	-0.100	-0.0002	0.0043	11:40:03	No
Mean:	-0.088	-0.088	-0.0001			
SD :	0.0159	0.0159	0.0001			
%RSD:	18.0	18.0	210.3737			

QC value within specified limits.

=====

Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 01/13/2010
 Sample ID: 243626010|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.050	0.050	0.0012	0.0056	11:41:27	No
2	0.048	0.048	0.0012	0.0056	11:42:02	No
Mean:	0.049	0.049	0.0012			
SD :	0.0015	0.0015	0.0000			
%RSD:	3.0	3.0	1.1341			

=====

Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 01/13/2010
 Sample ID: 243626011|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.063	0.063	0.0013	0.0057	11:43:24	No
2	0.068	0.068	0.0013	0.0058	11:43:59	No
Mean:	0.065	0.065	0.0013			
SD :	0.0035	0.0035	0.0000			
%RSD:	5.3	5.3	2.3823			

=====

Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 01/13/2010
 Sample ID: 1202012367|i||940341|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.197	-0.197	-0.0010	0.0034	11:45:21	No
2	-0.215	-0.215	-0.0012	0.0032	11:45:56	No
Mean:	-0.206	-0.206	-0.0011			
SD :	0.0122	0.0122	0.0001			
%RSD:	5.9	5.9	9.7836			

=====

Element: Hg Seq. No.: 63 AS Loc.: 7 Date: 01/13/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.466	5.466	0.0497	0.0541	11:49:11	No
2	5.328	5.328	0.0485	0.0529	11:49:47	No
Mean:	5.397	5.397	0.0491			
SD :	0.0975	0.0975	0.0009			
%RSD:	1.8	1.8	1.7803			

QC value within specified limits.

=====

Element: Hg Seq. No.: 64 AS Loc.: 8 Date: 01/13/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.121	-0.121	-0.0004	0.0041	11:51:15	No
2	-0.139	-0.139	-0.0005	0.0039	11:51:50	No
Mean:	-0.130	-0.130	-0.0004			

SD : 0.0123 0.0123 0.0001
 %RSD: 9.5 9.5 25.0937
 QC value within specified limits.

=====
 Element: Hg Seq. No.: 65 AS Loc.: 54 Date: 01/13/2010
 Sample ID: 1202012367|i||940341|MB
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.252	-0.252	-0.0015	0.0029	11:53:15	No
2	-0.248	-0.248	-0.0015	0.0029	11:53:50	No
Mean:	-0.250	-0.250	-0.0015			
SD :	0.0023	0.0023	0.0000			
%RSD:	0.9	0.9	1.3664			

=====

Method Name: SOIL
 Method Description: 7471A, ILM04 ANALYST JXL1
 Element: Hg

Date: 01/13/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 011310S1.SIF

Results Data Set Name: 011310S1

=====
 Element: Hg Seq. No.: 66 AS Loc.: 1 Date: 01/13/2010
 Sample ID: Calib Blank
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0029	0.0029	11:55:42	No
2			0.0028	0.0028	11:56:16	No
Mean:			0.0029			
SD :			0.0001			
%RSD:			3.5895			

Auto-zero performed.

=====
 Element: Hg Seq. No.: 67 AS Loc.: 2 Date: 01/13/2010
 Sample ID: S0.2
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0026	0.0055	11:57:38	No
2			0.0026	0.0054	11:58:13	No
Mean:			0.0026			
SD :			0.0001			
%RSD:			2.1763			

[Hg] Standard number 1 applied. [0.200]

Correlation Coefficient: 1.00000

Slope: 0.01297

Intercept : 0.00000

=====
 Element: Hg Seq. No.: 68 AS Loc.: 3 Date: 01/13/2010
 Sample ID: S0.5
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0055	0.0084	11:59:36	No
2			0.0055	0.0084	12:00:11	No
Mean:			0.0055			
SD :			0.0000			
%RSD:			0.1644			

[Hg] Standard number 2 applied. [0.500]

Miscellaneous

Prep LogBook

Analyst: BXA1 Verified by: _____

Batch: 937506

Lab SOP: GL-MA-E-009 REV# 19

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202006074	U1062540-MS	.506	g
MS	1202006076	U1091015-A	.5	mL
MS	1202006076	U1091015-B	.5	mL
MSD	1202006078	U1091015-A	.5	mL
MSD	1202006078	U1091015-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202006073		SW846 3050B	30-DEC-2009 16:20	0.509 g	50 mL	98.23183	SOIL
LCS	1202006074		SW846 3050B	30-DEC-2009 16:20	0.506 g	50 mL	98.81423	SOIL
SAMPLE	243626001		SW846 3050B	30-DEC-2009 16:20	0.509 g	50 mL	98.23183	SOIL
DUP	1202006075	243626001	SW846 3050B	30-DEC-2009 16:20	0.5 g	50 mL	100	SOIL
MS	1202006076	243626001	SW846 3050B	30-DEC-2009 16:20	0.515 g	50 mL	97.08738	SOIL
MSD	1202006078	243626001	SW846 3050B	30-DEC-2009 16:20	0.507 g	50 mL	98.61933	SOIL
SDILT	1202006077	243626001	SW846 3050B	30-DEC-2009 16:20	0.509 g	50 mL	98.23183	SOIL
SAMPLE	243626002		SW846 3050B	30-DEC-2009 16:20	0.511 g	50 mL	97.84736	SOIL
SAMPLE	243626003		SW846 3050B	30-DEC-2009 16:20	0.501 g	50 mL	99.8004	SOIL
SAMPLE	243626004		SW846 3050B	30-DEC-2009 16:20	0.51 g	50 mL	98.03922	SOIL
SAMPLE	243626005		SW846 3050B	30-DEC-2009 16:20	0.516 g	50 mL	96.89922	SOIL
SAMPLE	243626006		SW846 3050B	30-DEC-2009 16:20	0.512 g	50 mL	97.65625	SOIL
SAMPLE	243626007		SW846 3050B	30-DEC-2009 16:20	0.519 g	50 mL	96.33911	SOIL
SAMPLE	243626008		SW846 3050B	30-DEC-2009 16:20	0.5 g	50 mL	100	SOIL
SAMPLE	243626009		SW846 3050B	30-DEC-2009 16:20	0.509 g	50 mL	98.23183	SOIL
SAMPLE	243626010		SW846 3050B	30-DEC-2009 16:20	0.502 g	50 mL	99.60159	SOIL
SAMPLE	243626011		SW846 3050B	30-DEC-2009 16:20	0.505 g	50 mL	99.0099	SOIL

Comments: sample#243626001 is a brown, clumpy soil.

Reagent/Solvent Lot ID	Amount	Description
1203655-02	1.5 mL	Hydrogen Peroxide 30%
1234886	5 mL	Nitric Acid CONC.

Prep LogBook

Analyst: BXA1 Verified by: _____
 Batch: 937482
 Lab SOP: GL-MA-E-009 REV# 19

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202006030		SW846 3050B	30-DEC-2009 16:31	0.508 g	50 mL	98.4252	.509	g
LCS	1202006031		SW846 3050B	30-DEC-2009 16:31	0.509 g	50 mL	98.23183	.25	mL
SAMPLE	243626001		SW846 3050B	30-DEC-2009 16:31	0.517 g	50 mL	96.7118	.25	mL
DUP	1202006032	243626001	SW846 3050B	30-DEC-2009 16:31	0.502 g	50 mL	99.60159	.25	mL
MS	1202006033	243626001	SW846 3050B	30-DEC-2009 16:31	0.501 g	50 mL	99.8004	.25	mL
MSD	1202006035	243626001	SW846 3050B	30-DEC-2009 16:31	0.525 g	50 mL	95.2381	.25	mL
SDILT	1202006034	243626001	SW846 3050B	30-DEC-2009 16:31	0.517 g	50 mL	96.7118	.25	mL
SAMPLE	243626002		SW846 3050B	30-DEC-2009 16:31	0.5 g	50 mL	100		
SAMPLE	243626003		SW846 3050B	30-DEC-2009 16:31	0.5 g	50 mL	100		
SAMPLE	243626004		SW846 3050B	30-DEC-2009 16:31	0.525 g	50 mL	95.2381		
SAMPLE	243626005		SW846 3050B	30-DEC-2009 16:31	0.517 g	50 mL	96.7118		
SAMPLE	243626006		SW846 3050B	30-DEC-2009 16:31	0.503 g	50 mL	99.40358		
SAMPLE	243626007		SW846 3050B	30-DEC-2009 16:31	0.505 g	50 mL	99.0099		
SAMPLE	243626008		SW846 3050B	30-DEC-2009 16:31	0.508 g	50 mL	98.4252		
SAMPLE	243626009		SW846 3050B	30-DEC-2009 16:31	0.51 g	50 mL	98.03922		
SAMPLE	243626010		SW846 3050B	30-DEC-2009 16:31	0.513 g	50 mL	97.46589		
SAMPLE	243626011		SW846 3050B	30-DEC-2009 16:31	0.504 g	50 mL	99.20635		

Comments: sample#243626001 is a brown clumpy soil.

Reagent/Solvent Lot ID	Amount	Description
1244970	10 mL	HYDROCHLORIC ACID
1234886	1.25 mL	Nitric Acid CONC.

Prep LogBook

Analyst: TXB3 Verified by: _____

Batch: 940321

Lab SOP: GL-MA-E-010 REV# 23

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202012331	UI031809A	.205	g
MS	1202012333	WHG100112-14	.3	mL
MSD	1202012335	WHG100112-14	.3	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202012330		SW846 7471A Prep	12-JAN-2010 13:25	0.547 g	30 mL	54.84461	SOIL
LCS	1202012331		SW846 7471A Prep	12-JAN-2010 13:25	0.205 g	30 mL	146.34146	SOIL
SAMPLE	243626001		SW846 7471A Prep	12-JAN-2010 13:25	0.573 g	30 mL	52.35602	SOIL
DUP	1202012332	243626001	SW846 7471A Prep	12-JAN-2010 13:25	0.536 g	30 mL	55.97015	SOIL
MS	1202012333	243626001	SW846 7471A Prep	12-JAN-2010 13:25	0.532 g	30 mL	56.39098	SOIL
MSD	1202012335	243626001	SW846 7471A Prep	12-JAN-2010 13:25	0.509 g	30 mL	58.9391	SOIL
SDILT	1202012334	243626001	SW846 7471A Prep	12-JAN-2010 13:25	0.573 g	30 mL	52.35602	SOIL
SAMPLE	243626002		SW846 7471A Prep	12-JAN-2010 13:25	0.556 g	30 mL	53.95683	SOIL
SAMPLE	243626003		SW846 7471A Prep	12-JAN-2010 13:25	0.581 g	30 mL	51.63511	SOIL
SAMPLE	243626004		SW846 7471A Prep	12-JAN-2010 13:25	0.557 g	30 mL	53.85996	SOIL
SAMPLE	243626005		SW846 7471A Prep	12-JAN-2010 13:25	0.545 g	30 mL	55.04587	SOIL
SAMPLE	243626006		SW846 7471A Prep	12-JAN-2010 13:25	0.56 g	30 mL	53.57143	SOIL
SAMPLE	243626007		SW846 7471A Prep	12-JAN-2010 13:25	0.511 g	30 mL	58.70841	SOIL
SAMPLE	243626008		SW846 7471A Prep	12-JAN-2010 13:25	0.505 g	30 mL	59.40594	SOIL
SAMPLE	243626009		SW846 7471A Prep	12-JAN-2010 13:25	0.556 g	30 mL	53.95683	SOIL
SAMPLE	243626010		SW846 7471A Prep	12-JAN-2010 13:25	0.52 g	30 mL	57.69231	SOIL
SAMPLE	243626011		SW846 7471A Prep	12-JAN-2010 13:25	0.556 g	30 mL	53.95683	SOIL

Comments: Sample 243626001 is a brown moist clumpy soil.
Digestion Start Date: 12-JAN-10 13:25
Digestion End Date: 12-JAN-10 13:55

Reagent/Solvent Lot ID	Amount	Description
1236355-A	1.125 mL	Hydrochloric Acid Conc.
1240182-1	.375 mL	NITRIC ACID
1244904-C	7.5 mL	5% KMnO4 solution
1206350-C	2 mL	Hg reducing agent
WHG100112-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100112-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100112-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100112-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100112-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
WHG100112-12	750 uL	Mercury Working 2nd Source S 5.0/ICV

Prep Data Logbook Version 1:1

GEL Laboratories LLC

Page#

DATA EXCEPTION REPORT

Mo.Day Yr. 14-JAN-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 937483	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 243626(10-1101)			
Application Issues: Failed RPD for DUP Failed Recovery for MSD/PSD Failed Recovery for MS/PS			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202006033MS 2. Failed RPD for DUP: QC 1202006032DUP 3. Failed Recovery for MSD/PSD: QC 1202006035MSD		1. The matrix spike recovery failed outside of the control limits for cobalt due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 2. The sample and sample duplicate % RPD failed outside the control limits for barium,chromium,cobalt,lead and manganese 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 duplicate recovery failed outside of the control limits for chromium and cobalt due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Helen Camello 15-JAN-10

Data Validator/Group Leader:

Kristen Parson 21-JAN-10

DATA EXCEPTION REPORT

Mo. Day Yr.
15-JAN-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:
937507

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 243626(10-1101)

Application Issues:

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MSD/PSD:

QC 1202006078MSD

DER Disposition:

The matrix spike duplicate recovery failed outside of the control limits for Se due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Samantha Jacobs 15-JAN-10

Data Validator/Group Leader:

Rose Jenkins 20-JAN-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: Q2SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L +/- 0.3% in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091015-A **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: 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: UI091124-01 **Opened:** 24-NOV-09 **Lot Number :** 1017642
Name: METALSPIKE-1 **Received:** 24-NOV-09
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI091124-06 **Opened:** 24-NOV-09 **Lot Number :** 1017643
Name: METALSPIKE-2 **Received:** 24-NOV-09
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI091212-11 **Opened:** 12-DEC-09 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 12-DEC-09 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1015303
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: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2Si
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Standard Logbook

Serial ID: UI091212-61 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2% HNO₃ + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI091215-48 **Opened:** 04-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSEA **Received:** 18-DEC-09 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-JAN-11 **Lot Number :** 1018219
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: 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: O2SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: 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: O2SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Standard Logbook

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI091228-40 **Opened:** 28-DEC-09 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 21-DEC-09 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-DEC-10 **Lot Number :** 1018160
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: UI091228-41 **Opened:** 28-DEC-09 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 21-DEC-09 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-DEC-10 **Lot Number :** 1018160
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Standard Logbook

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: IHG100112-01 **Opened:** 12-JAN-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 12-JAN-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 13-JAN-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: IHG100112-02 **Opened:** 12-JAN-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 12-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Intermediate **Expires:** 13-JAN-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: WHG100112-07 **Opened:** 12-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2CRA **Received:** 12-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 19-JAN-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.
IHG100112-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100112-08 **Opened:** 12-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.5 **Received:** 12-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 19-JAN-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.5
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100112-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100112-09 Opened: 12-JAN-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS2.0 Received: 12-JAN-10 Solvent : 2% HNO3-1240182
 Type: Working Expires: 19-JAN-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.
IHG100112-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100112-10 Opened: 12-JAN-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS5.0CCV Received: 12-JAN-10 Solvent : 2% HNO3-1240182
 Type: Working Expires: 19-JAN-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.
IHG100112-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100112-11 Opened: 12-JAN-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS10.0 Received: 12-JAN-10 Solvent : 2% HNO3-1240182
 Type: Working Expires: 19-JAN-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.
IHG100112-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100112-12 Opened: 12-JAN-10 Pipet Id : Hg1289245
 Name: MHGWORKS5.0ICV Received: 12-JAN-10 Solvent : 2% HNO3-1240182
 Type: Working Expires: 19-JAN-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working 2nd Source S 5.0/ICV
 Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100112-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100112-14 **Opened:** 12-JAN-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 12-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 19-JAN-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: WI100112-42 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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.
WI100112-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100112-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100112-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100112-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WI100112-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100112-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100112-43 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
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: WI100112-44 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1 %HNO3-1253514
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100112-45 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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: WI100112-46 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1253514
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100112-47 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL &1%HNO3-1253514
Employee: Helen Camello
Supplier: Q2si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100113-42 **Opened:** 13-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 14-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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.
WI100113-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100113-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100113-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100113-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
WI100113-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100113-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100113-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100113-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100113-43 **Opened:** 13-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 14-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100113-44 Opened: 13-JAN-10 Balance Id : 216
 Name: TRACE ICP SCAL 1.0 Received: 02-NOV-09 Pipet Id : 1099667
 Type: Working Expires: 14-JAN-10 Solvent : 3%HCL and 1 %HNO3-1253514
 Employee: Helen Camello
 Supplier: o2si
 Description: Trace ICP Calibration Standard 1.0ppm
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100113-45 **Opened:** 13-JAN-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 1099667
Type: Working **Expires:** 14-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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: WI100113-46 **Opened:** 13-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 14-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1253514
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100113-47
Name: PQL Working Standard
Type: Working
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Opened: 13-JAN-10 **Balance Id :** 216
Received: 30-JUN-09 **Pipet Id :** 1099667
Expires: 14-JAN-10 **Solvent :** 3%HCL & 1%HNO3-1253514

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100112-04 **Opened:** 12-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 12-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 13-JAN-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1253206
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100112-04A **Opened:** 12-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 12-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 13-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100112-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100112-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100112-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100112-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100112-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100112-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100112-05 **Opened:** 12-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 12-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 13-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100112-06 **Opened:** 12-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 12-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 13-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100112-07 **Opened:** 12-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 12-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 13-JAN-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1253206
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100112-08 **Opened:** 12-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 12-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 13-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
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

Serial ID: WMS100112-70 **Opened:** 12-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 12-JAN-10 **Pipet Id :** 1758088
Type: Working **Expres:** 13-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100114-04 **Opened:** 14-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 14-JAN-10 **Balance Id :** 4025216
Type: Working **Expres:** 15-JAN-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1253206
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100114-04A **Opened:** 14-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 14-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 15-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100114-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100114-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100114-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100114-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100114-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100114-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100114-05 **Opened:** 14-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 14-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 15-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100114-06

Opened: 14-JAN-10

Balance Id : 40245216

Name: ICPMS CRDL

Received: 14-JAN-10

Pipet Id : 3820544

Type: Working

Expires: 15-JAN-10

Solvent : 2%HNO3/1%HCl - 1253206

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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100114-07 **Opened:** 14-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 14-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 15-JAN-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1253206
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100114-08 **Opened:** 14-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 14-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 15-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1253206
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
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

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: 1164796-A Opened: 06-AUG-09 Lot Number : 49149927
 Name: B-NH2OH.HCl-MER Received: 06-AUG-09
 Type: Reagent/Solvent Expires: 06-AUG-10
 Employee: Tara Griffin
 Supplier: Fisher Scientific
 Description: Hydroxylamine Hydrochloride
 Comments: None

Serial ID: 1203655-02 Opened: 15-OCT-09 Lot Number : ZU74081198 mL
 Name: B-H2O2 Received: 15-OCT-09
 Type: Reagent/Solvent Expires: 15-OCT-10
 Employee: Francena Armstrong
 Supplier: EM SCIENCE
 Description: Hydrogen Peroxide 30%
 Comments: None

Serial ID: 1206350-C Opened: 22-OCT-09 Balance Id : BAL-002
 Name: B-NaCl.NH2OH.HCl-MER Received: 22-OCT-09
 Type: Reagent/Solvent Expires: 15-JAN-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Hg reducing agent
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1164796-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1234886 Opened: 27-NOV-09 Lot Number : H20053 L
 Name: I-HNO3 Received: 27-NOV-09
 Type: Reagent/Solvent Expires: 27-NOV-10
 Employee: Bryan Davis
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1236355-A Opened: 01-DEC-09 Lot Number : 200930201
 Name: B-HCl-MER Received: 01-DEC-09
 Type: Reagent/Solvent Expires: 01-DEC-10
 Employee: Tara Griffin
 Supplier: Aristar
 Description: Hydrochloric Acid Conc.
 Comments: None

Standard Logbook

Serial ID: 1238345 Opened: 04-DEC-09 Lot Number : H20053 L
 Name: I-HNO3 Received: 04-DEC-09
 Type: Reagent/Solvent Expires: 04-DEC-10
 Employee: Francena Armstrong
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1240182-1 Opened: 09-DEC-09 Instrument Id : MERCURY
 Name: B-HNO3-MER Received: 09-DEC-09 Lot Number : H34040
 Type: Reagent/Solvent Expires: 09-DEC-10
 Employee: Tara Griffin
 Supplier: Mallinckrodt Chemicals
 Description: NITRIC ACID
 Comments: None

Serial ID: 1244904-C Opened: 18-DEC-09 Balance Id : BAL-002
 Name: B-KMnO4-MER Received: 18-DEC-09
 Type: Reagent/Solvent Expires: 18-JUN-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: 1244970 Opened: 18-DEC-09 Lot Number : H41032
 Name: I-HCL Received: 18-DEC-09 Preservative_Id : 5 none
 Type: Reagent/Solvent Expires: 18-DEC-10
 Employee: Francena Armstrong
 Supplier: J.T. BAKER
 Description: HYDROCHLORIC ACID
 Comments: None

Serial ID: 1253206 Opened: 11-JAN-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCl-ICPMS Received: 11-JAN-10
 Type: Reagent/Solvent Expires: 18-JAN-10
 Employee: Paul Boyd
 Supplier: GEL
 Description: 2%HNO3/1%HCl Solution (Type I Water)
 Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1238345	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1244970	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1253514 Opened: 11-JAN-10 Amount: 20 L
Name: B-ICP-RINSE SOLN Received: 11-JAN-10 Lot Number: H04040+G34050
Type: Reagent/Solvent Expires: 17-JAN-10 Solvent: 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1101-1**

Sample Analysis

Sample ID	Client ID
243627001	RE12-10-7860
1202006002	Method Blank (MB) ICP
1202006003	Laboratory Control Sample (LCS)
1202006006	243632001(RE12-10-7610L) Serial Dilution (SD)
1202006004	243632001(RE12-10-7610D) Sample Duplicate (DUP)
1202006005	243632001(RE12-10-7610S) Matrix Spike (MS)
1202006053	Method Blank (MB) ICP-MS
1202006054	Laboratory Control Sample (LCS)
1202006057	243608001(RE16-10-372L) Serial Dilution (SD)
1202006055	243608001(RE16-10-372D) Sample Duplicate (DUP)
1202006056	243608001(RE16-10-372S) Matrix Spike (MS)
1202006475	Method Blank (MB) CVAA
1202006479	Laboratory Control Sample (LCS)
1202006477	243627001(RE12-10-7860L) Serial Dilution (SD)
1202006476	243627001(RE12-10-7860D) Sample Duplicate (DUP)
1202006478	243627001(RE12-10-7860S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch: 937469, 937496 and 937647
Prep Batch : 937468, 937495 and 937646
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 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: 243632001, 243608001 and 243627001.

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: Kristen Hanson Date: 1/21/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1101-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 243627001

BASIS: As Received

DATE COLLECTED 22-DEC-09

CLIENT ID: RE12-10-7860

LEVEL: Low

DATE RECEIVED 29-DEC-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-39-3	Barium	1.21	ug/L	J	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/12/10 15:07	011210-1	937469
7439-96-5	Manganese	1.19	ug/L	J	1	5	5	1	MS	BAJ	01/03/10 21:42	100103-2	937496
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	01/08/10 10:01	010810W1-6	937647
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-09-7	Potassium	119	ug/L	J	50	150	150	1	P	HSC	01/12/10 15:07	011210-1	937469
7782-49-2	Selenium	7.09	ug/L	J	5	30	30	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-23-5	Sodium	146	ug/L	J	100	300	300	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	01/04/10 05:12	100103-4	937496
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/04/10 16:57	100104-5	937496
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/12/10 15:07	011210-1	937469
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/12/10 15:07	011210-1	937469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
937469	937468	SW846 3005A	50	mL	50	mL	12/31/09	BXA1
937496	937495	SW846 3005A	50	mL	50	mL	12/31/09	BXA1
937647	937646	SW846 7470A Prep	20	mL	20	mL	01/07/10	AXG2

Quality Control Summary

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
ICV01										
	Antimony	49.7	ug/L	50	ug/L	99.4	90.0 - 110.0	MS	03-JAN-10 18:44	100103-2
	Beryllium	49.9	ug/L	50	ug/L	99.8	90.0 - 110.0	MS	03-JAN-10 18:44	100103-2
	Cadmium	49.2	ug/L	50	ug/L	98.4	90.0 - 110.0	MS	03-JAN-10 18:44	100103-2
	Lead	53	ug/L	50	ug/L	106	90.0 - 110.0	MS	03-JAN-10 18:44	100103-2
	Manganese	51.2	ug/L	50	ug/L	102.3	90.0 - 110.0	MS	03-JAN-10 18:44	100103-2
	Thallium	50.6	ug/L	50	ug/L	101.2	90.0 - 110.0	MS	04-JAN-10 03:14	100103-4
	Uranium	53.6	ug/L	50	ug/L	107.2	90.0 - 110.0	MS	04-JAN-10 16:28	100104-5
	Mercury	5.24	ug/L	5	ug/L	104.7	90.0 - 110.0	AV	08-JAN-10 09:18	010810W1-6
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Arsenic	470	ug/L	500	ug/L	94	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Barium	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Calcium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Chromium	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Cobalt	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Magnesium	5260	ug/L	5000	ug/L	105.3	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Nickel	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Potassium	2450	ug/L	2500	ug/L	98	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Selenium	2540	ug/L	2500	ug/L	101.6	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Silver	259	ug/L	250	ug/L	103.6	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Sodium	2480	ug/L	2500	ug/L	99.1	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
	Zinc	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 13:01	011210-1
CCV01										
	Antimony	51	ug/L	50	ug/L	101.9	90.0 - 110.0	MS	03-JAN-10 19:14	100103-2
	Beryllium	52.2	ug/L	50	ug/L	104.3	90.0 - 110.0	MS	03-JAN-10 19:14	100103-2
	Cadmium	50.5	ug/L	50	ug/L	101	90.0 - 110.0	MS	03-JAN-10 19:14	100103-2
	Lead	52.7	ug/L	50	ug/L	105.4	90.0 - 110.0	MS	03-JAN-10 19:14	100103-2
	Manganese	53.7	ug/L	50	ug/L	107.4	90.0 - 110.0	MS	03-JAN-10 19:14	100103-2

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,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>
	Thallium	49.9	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	04-JAN-10 03:36	100103-4
	Uranium	52.7	ug/L	50	ug/L	105.4	90.0 - 110.0	MS	04-JAN-10 16:36	100104-5
	Mercury	5.21	ug/L	5	ug/L	104.1	80.0 - 120.0	AV	08-JAN-10 09:23	010810W1-6
	Aluminum	5070	ug/L	5000	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Arsenic	520	ug/L	500	ug/L	104	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Barium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Chromium	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Copper	495	ug/L	500	ug/L	99	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Iron	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Magnesium	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Nickel	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Potassium	5330	ug/L	5000	ug/L	106.5	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Selenium	525	ug/L	500	ug/L	105	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Silver	505	ug/L	500	ug/L	101	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Sodium	9680	ug/L	10000	ug/L	96.8	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	12-JAN-10 13:47	011210-1
CCV02	Antimony	51.9	ug/L	50	ug/L	103.8	90.0 - 110.0	MS	03-JAN-10 19:33	100103-2
	Beryllium	51.2	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	03-JAN-10 19:33	100103-2
	Cadmium	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	03-JAN-10 19:33	100103-2
	Lead	53.2	ug/L	50	ug/L	106.4	90.0 - 110.0	MS	03-JAN-10 19:33	100103-2
	Manganese	52.5	ug/L	50	ug/L	105	90.0 - 110.0	MS	03-JAN-10 19:33	100103-2
	Thallium	47.4	ug/L	50	ug/L	94.7	90.0 - 110.0	MS	04-JAN-10 04:17	100103-4
	Uranium	54	ug/L	50	ug/L	108.1	90.0 - 110.0	MS	04-JAN-10 16:51	100104-5
	Mercury	5.2	ug/L	5	ug/L	104.1	80.0 - 120.0	AV	08-JAN-10 09:47	010810W1-6
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Arsenic	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	12-JAN-10 14:19	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,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	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Calcium	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Chromium	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Nickel	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Potassium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Selenium	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Silver	511	ug/L	500	ug/L	102.3	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Sodium	9800	ug/L	10000	ug/L	98	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Vanadium	509	ug/L	500	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
	Zinc	505	ug/L	500	ug/L	101	90.0 - 110.0	P	12-JAN-10 14:19	011210-1
CCV03	Antimony	49.9	ug/L	50	ug/L	99.8	90.0 - 110.0	MS	03-JAN-10 20:28	100103-2
	Beryllium	50.3	ug/L	50	ug/L	100.5	90.0 - 110.0	MS	03-JAN-10 20:28	100103-2
	Cadmium	49.4	ug/L	50	ug/L	98.8	90.0 - 110.0	MS	03-JAN-10 20:28	100103-2
	Lead	52.5	ug/L	50	ug/L	105.1	90.0 - 110.0	MS	03-JAN-10 20:28	100103-2
	Manganese	51.5	ug/L	50	ug/L	103	90.0 - 110.0	MS	03-JAN-10 20:28	100103-2
	Thallium	47.2	ug/L	50	ug/L	94.4	90.0 - 110.0	MS	04-JAN-10 04:58	100103-4
	Uranium	53.9	ug/L	50	ug/L	107.7	90.0 - 110.0	MS	04-JAN-10 17:04	100104-5
	Mercury	5.26	ug/L	5	ug/L	105.2	80.0 - 120.0	AV	08-JAN-10 10:10	010810W1-6
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Arsenic	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Barium	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Copper	500	ug/L	500	ug/L	100	90.0 - 110.0	P	12-JAN-10 15:14	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,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	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Magnesium	5080	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Nickel	505	ug/L	500	ug/L	101	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Potassium	4970	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Selenium	523	ug/L	500	ug/L	104.5	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Silver	510	ug/L	500	ug/L	102	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Sodium	9310	ug/L	10000	ug/L	93.1	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
	Zinc	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	12-JAN-10 15:14	011210-1
CCV04	Antimony	50.2	ug/L	50	ug/L	100.3	90.0 - 110.0	MS	03-JAN-10 21:23	100103-2
	Beryllium	52.5	ug/L	50	ug/L	105.1	90.0 - 110.0	MS	03-JAN-10 21:23	100103-2
	Cadmium	49.5	ug/L	50	ug/L	98.9	90.0 - 110.0	MS	03-JAN-10 21:23	100103-2
	Lead	51.4	ug/L	50	ug/L	102.8	90.0 - 110.0	MS	03-JAN-10 21:23	100103-2
	Manganese	52.3	ug/L	50	ug/L	104.5	90.0 - 110.0	MS	03-JAN-10 21:23	100103-2
	Thallium	45.1	ug/L	50	ug/L	90.2	90.0 - 110.0	MS	04-JAN-10 05:30	100103-4
	Aluminum	5160	ug/L	5000	ug/L	103.2	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Arsenic	508	ug/L	500	ug/L	101.5	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Barium	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Calcium	5130	ug/L	5000	ug/L	102.7	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Chromium	504	ug/L	500	ug/L	100.9	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Copper	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Nickel	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Potassium	5010	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Selenium	522	ug/L	500	ug/L	104.5	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Silver	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Sodium	9530	ug/L	10000	ug/L	95.3	90.0 - 110.0	P	12-JAN-10 16:37	011210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
CCV05	Vanadium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Zinc	506	ug/L	500	ug/L	101.1	90.0 - 110.0	P	12-JAN-10 16:37	011210-1
	Antimony	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	03-JAN-10 22:07	100103-2
	Beryllium	52.3	ug/L	50	ug/L	104.5	90.0 - 110.0	MS	03-JAN-10 22:07	100103-2
	Cadmium	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	03-JAN-10 22:07	100103-2
	Lead	52.3	ug/L	50	ug/L	104.5	90.0 - 110.0	MS	03-JAN-10 22:07	100103-2
	Manganese	52.9	ug/L	50	ug/L	105.7	90.0 - 110.0	MS	03-JAN-10 22:07	100103-2
	Aluminum	5180	ug/L	5000	ug/L	103.7	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Arsenic	516	ug/L	500	ug/L	103.3	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Barium	509	ug/L	500	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Calcium	5220	ug/L	5000	ug/L	104.5	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Chromium	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Copper	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Magnesium	5340	ug/L	5000	ug/L	106.7	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Nickel	507	ug/L	500	ug/L	101.5	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Potassium	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Selenium	532	ug/L	500	ug/L	106.4	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Silver	513	ug/L	500	ug/L	102.7	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Sodium	9710	ug/L	10000	ug/L	97.1	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	12-JAN-10 17:33	011210-1
	Zinc	509	ug/L	500	ug/L	101.7	90.0 - 110.0	P	12-JAN-10 17:33	011210-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,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										
	Lead	2.42	ug/L	2	ug/L	121	70.0 - 130.0	MS	03-JAN-10 18:56	100103-2
	Manganese	5.87	ug/L	5	ug/L	117.4	70.0 - 130.0	MS	03-JAN-10 18:56	100103-2
	Antimony	3.33	ug/L	3	ug/L	111.1	70.0 - 130.0	MS	03-JAN-10 18:56	100103-2
	Beryllium	.526	ug/L	.5	ug/L	105.2	70.0 - 130.0	MS	03-JAN-10 18:56	100103-2
	Cadmium	1.08	ug/L	1	ug/L	107.5	70.0 - 130.0	MS	03-JAN-10 18:56	100103-2
	Thallium	1.08	ug/L	1	ug/L	107.9	70.0 - 130.0	MS	04-JAN-10 03:23	100103-4
	Uranium	.257	ug/L	.2	ug/L	128.5	70.0 - 130.0	MS	04-JAN-10 16:31	100104-5
	Mercury	.209	ug/L	.2	ug/L	104.5	70.0 - 130.0	AV	08-JAN-10 09:22	010810W1-6
PQL01										
	Aluminum	207	ug/L	200	ug/L	103.5	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Iron	92.8	ug/L	100	ug/L	92.8	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Magnesium	267	ug/L	300	ug/L	89	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Nickel	4.92	ug/L	5	ug/L	98.4	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Potassium	150	ug/L	150	ug/L	99.8	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Silver	4.91	ug/L	5	ug/L	98.2	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Sodium	320	ug/L	300	ug/L	106.6	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Arsenic	30.2	ug/L	30	ug/L	100.7	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Barium	4.95	ug/L	5	ug/L	99	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Chromium	4.69	ug/L	5	ug/L	93.9	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Cobalt	4.88	ug/L	5	ug/L	97.6	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Copper	9.97	ug/L	10	ug/L	99.7	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Vanadium	5.26	ug/L	5	ug/L	105.2	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Zinc	10.5	ug/L	10	ug/L	105.2	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Calcium	204	ug/L	200	ug/L	102.2	70.0 - 130.0	P	12-JAN-10 13:15	011210-1
	Selenium	29.4	ug/L	30	ug/L	97.9	70.0 - 130.0	P	12-JAN-10 13:15	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101-1

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										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 18:50	100103-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 18:50	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 18:50	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 18:50	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 18:50	100103-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-JAN-10 03:18	100103-4
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-JAN-10 16:29	100104-5
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	08-JAN-10 09:20	010810W1-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 13:08	011210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 13:08	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 13:08	011210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 13:08	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 13:08	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 13:08	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	12-JAN-10 13:08	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 13:08	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 13:08	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:08	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 13:08	011210-1
CCB01										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 19:20	100103-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 19:20	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 19:20	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 19:20	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 19:20	100103-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-JAN-10 03:41	100103-4

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101-1

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>
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-JAN-10 16:38	100104-5
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	08-JAN-10 09:25	010810W1-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 13:54	011210-1
	Arsenic	12.26	+/-30	J	5.0	30.0	LIQ	P	12-JAN-10 13:54	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 13:54	011210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 13:54	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 13:54	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 13:54	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Potassium	129.14	+/-150	J	50.0	150	LIQ	P	12-JAN-10 13:54	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 13:54	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 13:54	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 13:54	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 13:54	011210-1
CCB02										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 19:39	100103-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 19:39	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 19:39	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 19:39	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 19:39	100103-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-JAN-10 04:21	100103-4
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-JAN-10 16:53	100104-5
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	08-JAN-10 09:49	010810W1-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 14:26	011210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 14:26	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 14:26	011210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101-1

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>
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 14:26	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 14:26	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 14:26	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	12-JAN-10 14:26	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 14:26	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 14:26	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 14:26	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 14:26	011210-1
CCB03	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 20:34	100103-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 20:34	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 20:34	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 20:34	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 20:34	100103-2
	Thallium	0.327	+/-1	J	0.3	1.0	LIQ	MS	04-JAN-10 05:02	100103-4
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-JAN-10 17:05	100104-5
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	08-JAN-10 10:12	010810W1-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 15:21	011210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 15:21	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 15:21	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 15:21	011210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 15:21	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 15:21	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 15:21	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 15:21	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 15:21	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 15:21	011210-1

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

SDG No.: 10-1101-1

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>
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	12-JAN-10 15:21	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 15:21	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 15:21	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 15:21	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 15:21	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 15:21	011210-1
CCB04	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 21:30	100103-2
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 21:30	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 21:30	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 21:30	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 21:30	100103-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-JAN-10 05:34	100103-4
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 16:44	011210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 16:44	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 16:44	011210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 16:44	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 16:44	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 16:44	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	12-JAN-10 16:44	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 16:44	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 16:44	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 16:44	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 16:44	011210-1
CCB05	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	03-JAN-10 22:13	100103-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1101-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	03-JAN-10 22:13	100103-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	03-JAN-10 22:13	100103-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	03-JAN-10 22:13	100103-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	03-JAN-10 22:13	100103-2
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	12-JAN-10 17:40	011210-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 17:40	011210-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	12-JAN-10 17:40	011210-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	12-JAN-10 17:40	011210-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	12-JAN-10 17:40	011210-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	12-JAN-10 17:40	011210-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	12-JAN-10 17:40	011210-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	12-JAN-10 17:40	011210-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Sodium	100	+/-300	U	100	300	LIQ	P	12-JAN-10 17:40	011210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	12-JAN-10 17:40	011210-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	12-JAN-10 17:40	011210-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1101-1

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>
1202006002	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	5.83	ug/L	+/-30	J	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	5.29	ug/L	+/-30	J	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
1202006053	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Lead	0.5	ug/L	+/-2	U	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2
1202006475	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS
-4-
Interference Check Sample

SDG No: 10-1101-1

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	506000	ug/L	500000	ug/L	101	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Arsenic	6.81	ug/L					12-JAN-10 13:22	011210-1
	Barium	1.73	ug/L					12-JAN-10 13:22	011210-1
	Calcium	468000	ug/L	500000	ug/L	93.7	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Chromium	1.44	ug/L					12-JAN-10 13:22	011210-1
	Cobalt	-1.47	ug/L					12-JAN-10 13:22	011210-1
	Copper	4.79	ug/L					12-JAN-10 13:22	011210-1
	Iron	183000	ug/L	200000	ug/L	91.5	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Magnesium	479000	ug/L	500000	ug/L	95.7	80.0 – 120.0	12-JAN-10 13:22	011210-1
	Nickel	3.71	ug/L					12-JAN-10 13:22	011210-1
	Potassium	-151.0	ug/L					12-JAN-10 13:22	011210-1
	Selenium	-8.93	ug/L					12-JAN-10 13:22	011210-1
	Silver	-1.92	ug/L					12-JAN-10 13:22	011210-1
	Sodium	47.0	ug/L					12-JAN-10 13:22	011210-1
	Vanadium	-0.846	ug/L					12-JAN-10 13:22	011210-1
	Zinc	8.33	ug/L					12-JAN-10 13:22	011210-1
ICSAB01									
	Aluminum	536000	ug/L	500000	ug/L	107	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Arsenic	537	ug/L	500	ug/L	107	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Barium	506	ug/L	500	ug/L	101	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Calcium	493000	ug/L	500000	ug/L	98.6	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Chromium	491	ug/L	500	ug/L	98.1	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Cobalt	455	ug/L	500	ug/L	91	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Copper	568	ug/L	500	ug/L	114	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Iron	189000	ug/L	200000	ug/L	94.7	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Magnesium	498000	ug/L	500000	ug/L	99.6	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Nickel	456	ug/L	500	ug/L	91.2	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Potassium	5430	ug/L	5000	ug/L	109	80.0 – 120.0	12-JAN-10 13:28	011210-1
	Selenium	2580	ug/L	2500	ug/L	103	80.0 – 120.0	12-JAN-10 13:28	011210-1

METALS

-4-

Interference Check Sample

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	278	ug/L	250	ug/L	111	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Sodium	5500	ug/L	5000	ug/L	110	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Vanadium	516	ug/L	500	ug/L	103	80.0 - 120.0	12-JAN-10 13:28	011210-1
	Zinc	509	ug/L	500	ug/L	102	80.0 - 120.0	12-JAN-10 13:28	011210-1

METALS

-4-

Interference Check Sample

SDG No: 10-1101-1

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	0.065	ug/L					03-JAN-10 19:02	100103-2
	Beryllium	0.077	ug/L					03-JAN-10 19:02	100103-2
	Cadmium	0.395	ug/L					03-JAN-10 19:02	100103-2
	Lead	0.194	ug/L					03-JAN-10 19:02	100103-2
	Manganese	6.26	ug/L					03-JAN-10 19:02	100103-2
ICSAB01									
	Antimony	21.2	ug/L	20.1	ug/L	105	80.0 - 120.0	03-JAN-10 19:08	100103-2
	Beryllium	19.2	ug/L	20	ug/L	96	80.0 - 120.0	03-JAN-10 19:08	100103-2
	Cadmium	19.7	ug/L	20.4	ug/L	96.7	80.0 - 120.0	03-JAN-10 19:08	100103-2
	Lead	21.2	ug/L	20.5	ug/L	103	80.0 - 120.0	03-JAN-10 19:08	100103-2
	Manganese	27.4	ug/L	25.8	ug/L	106	80.0 - 120.0	03-JAN-10 19:08	100103-2

METALS
-4-
Interference Check Sample

SDG No: 10-1101-1

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	Thallium	0.001	ug/L					04-JAN-10 03:27	100103-4
ICSAB01	Thallium	19.9	ug/L	20	ug/L	99.4	80.0 - 120.0	04-JAN-10 03:32	100103-4

METALS
-4-
Interference Check Sample

SDG No: 10-1101-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.017	ug/L					04-JAN-10 16:33	100104-5
ICSAB01	Uranium	23.9	ug/L	20	ug/L	119	80.0 - 120.0	04-JAN-10 16:34	100104-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101-1

Client ID: RE12-10-7610S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 243632001

Spike ID: 1202006005

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5200		68	U	5000	104		P
Arsenic	ug/L	75-125	506		5	U	500	101		P
Barium	ug/L	75-125	516		1	U	500	103		P
Calcium	ug/L	75-125	5180		50	U	5000	103		P
Chromium	ug/L	75-125	504		1	U	500	101		P
Cobalt	ug/L	75-125	498		1	U	500	99.6		P
Copper	ug/L	75-125	515		3	U	500	103		P
Iron	ug/L	75-125	5140		30	U	5000	103		P
Magnesium	ug/L	75-125	5270		85	U	5000	105		P
Nickel	ug/L	75-125	505		1.5	U	500	101		P
Potassium	ug/L	75-125	5090		108	J	5000	99.6		P
Selenium	ug/L	75-125	507		5	U	500	101		P
Silver	ug/L	75-125	506		1	U	500	101		P
Sodium	ug/L	75-125	4930		207	J	5000	94.4		P
Vanadium	ug/L	75-125	515		1	U	500	103		P
Zinc	ug/L	75-125	491		3.3	U	500	98		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101-1

Client ID RE16-10-372S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 243608001

Spike ID: 1202006056

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75-125	195		1	U	200	97.4		MS
Beryllium	ug/L	75-125	51.6		0.1	U	50	103		MS
Cadmium	ug/L	75-125	10.7		0.11	U	10	107		MS
Lead	ug/L	75-125	43		0.5	U	40	107		MS
Manganese	ug/L	75-125	52.3		2.56	J	50	99.5		MS
Thallium	ug/L	75-125	81.7		0.3	U	100	81.7		MS
Uranium	ug/L	75-125	55.4		0.05	U	50	111		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1101-1 Client ID RE12-10-7860S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 243627001 Spike ID: 1202006478

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75-125	2.04		0.066	U	2	101		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE12-10-7610D

Sample ID: 243632001

Duplicate ID: 1202006004

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		68 U		68 U				P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		1 U		1 U				P
Calcium	ug/L		50 U		50 U				P
Chromium	ug/L		1 U		1 U				P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L		30 U		30 U				P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	108 J		99.8 J		7.69		P
Selenium	ug/L		5 U		5 U				P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L	+/-300	207 J		146 J		34.2		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.: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE16-10-372D

Sample ID: 243608001

Duplicate ID: 1202006055

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	2.56 J		3.17 J		21.1		MS
Thallium	ug/L		0.3 U		0.3 U				MS
Uranium	ug/L		0.05 U		0.05 U				MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1101-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE12-10-7860D

Sample ID: 243627001

Duplicate ID: 1202006476

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. 10-1101-1

Contract: LANL01004

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202006003								
	Aluminum	ug/L	5000	5140		103	80-120	P
	Arsenic	ug/L	500	505		101	80-120	P
	Barium	ug/L	500	515		103	80-120	P
	Calcium	ug/L	5000	5130		103	80-120	P
	Chromium	ug/L	500	501		100	80-120	P
	Cobalt	ug/L	500	495		98.9	80-120	P
	Copper	ug/L	500	512		102	80-120	P
	Iron	ug/L	5000	5220		104	80-120	P
	Magnesium	ug/L	5000	5260		105	80-120	P
	Nickel	ug/L	500	501		100	80-120	P
	Potassium	ug/L	5000	4990		99.8	80-120	P
	Selenium	ug/L	500	507		101	80-120	P
	Silver	ug/L	500	506		101	80-120	P
	Sodium	ug/L	5000	5160		103	80-120	P
	Vanadium	ug/L	500	512		102	80-120	P
	Zinc	ug/L	500	491		98.2	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1101-1

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>
1202006054								
	Antimony	ug/L	50	50		99.9	80-120	MS
	Beryllium	ug/L	50	51.9		104	80-120	MS
	Cadmium	ug/L	50	49.3		98.6	80-120	MS
	Lead	ug/L	50	51.9		104	80-120	MS
	Manganese	ug/L	50	49.7		99.4	80-120	MS
	Thallium	ug/L	50	43.7		87.4	80-120	MS
	Uranium	ug/L	50	54.4		109	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1101-1

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>
1202006479	Mercury	ug/L	2	2.03		101	80-120	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1101-1 Client ID RE12-10-7610L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 243632001 Serial Dilution ID: 1202006006

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	68	U	340	U				P
Arsenic	5	U	25	U				P
Barium	1	U	5	U				P
Calcium	50	U	250	U				P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	30	U	150	U				P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	108	J	250	U	100			P
Selenium	5	U	25	U				P
Silver	1	U	5	U				P
Sodium	207	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. 10-1101-1 Client ID RE16-10-372L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 243608001 Serial Dilution ID: 1202006057

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
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	2.56	J	5	U	100			MS
Thallium	.3	U	3.25	J				MS
Uranium	.05	U	.25	U				MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1101-1 Client ID RE12-10-7860L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 243627001 Serial Dilution ID: 1202006477

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.066	U	.33	U				AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101-1

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 937468							
1202006002	MB for batch 937468	MB	W	31-DEC-09	50mL	50mL	
1202006003	LCS for batch 937468	LCS	W	31-DEC-09	50mL	50mL	
1202006005	RE12-10-7610S	MS	W	31-DEC-09	50mL	50mL	
1202006004	RE12-10-7610D	DUP	W	31-DEC-09	50mL	50mL	
243627001	RE12-10-7860	SAMPLE	W	31-DEC-09	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101-1

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	937495						
1202006053	MB for batch 937495	MB	W	31-DEC-09	50mL	50mL	
1202006054	LCS for batch 937495	LCS	W	31-DEC-09	50mL	50mL	
1202006056	RE16-10-372S	MS	W	31-DEC-09	50mL	50mL	
1202006055	RE16-10-372D	DUP	W	31-DEC-09	50mL	50mL	
243627001	RE12-10-7860	SAMPLE	W	31-DEC-09	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1101-1

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 937646							
1202006475	MB for batch 937646	MB	W	07-JAN-10	20mL	20mL	
1202006479	LCS for batch 937646	LCS	W	07-JAN-10	20mL	20mL	
1202006478	RE12-10-7860S	MS	W	07-JAN-10	20mL	20mL	
1202006476	RE12-10-7860D	DUP	W	07-JAN-10	20mL	20mL	
243627001	RE12-10-7860	SAMPLE	W	07-JAN-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 03-JAN-10

End Date: 04-JAN-10

Client Sdg: 10-1101-1

Method MS

Data File: 100103-2

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	18:25		X			X	X						X		X										
S10	1	18:32		X			X	X						X		X										
S100	1	18:38		X			X	X						X		X										
ICV01	1	18:44		X			X	X						X		X										
ICB01	1	18:50		X			X	X						X		X										
CRDL01	1	18:56		X			X	X						X		X										
ICSA01	1	19:02		X			X	X						X		X										
ICSAB01	1	19:08		X			X	X						X		X										
CCV01	1	19:14		X			X	X						X		X										
CCB01	1	19:20		X			X	X						X		X										
LR01	1	19:27		X			X	X						X		X										
CCV02	1	19:33		X			X	X						X		X										
CCB02	1	19:39		X			X	X						X		X										
ZZZZZZ	1	19:45																								
ZZZZZZ	1	19:51																								
ZZZZZZ	1	19:57																								
ZZZZZZ	1	20:03																								
ZZZZZZ	1	20:09																								
ZZZZZZ	5	20:16																								
ZZZZZZ	1	20:22																								
CCV03	1	20:28		X			X	X						X		X										
CCB03	1	20:34		X			X	X						X		X										
1202006053	1	20:40		X			X	X						X		X										
1202006054	1	20:46		X			X	X						X		X										
ZZZZZZ	1	20:53																								
ZZZZZZ	1	20:59																								
1202006055	1	21:05		X			X	X						X		X										
1202006056	1	21:11		X			X	X						X		X										
1202006057	5	21:17		X			X	X						X		X										
CCV04	1	21:23		X			X	X						X		X										
CCB04	1	21:30		X			X	X						X		X										
ZZZZZZ	1	21:36																								
243627001	1	21:42		X			X	X						X		X										
ZZZZZZ	1	21:48																								
ZZZZZZ	1	21:54																								
ZZZZZZ	1	22:01																								
CCV05	1	22:07		X			X	X						X		X										
CCB05	1	22:13		X			X	X						X		X										

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 03-JAN-10

End Date: 04-JAN-10

Client Sdg: 10-1101-1

Method MS

Data File: 100103-4

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	03:00																					X			
S10	1	03:05																					X			
S100	1	03:09																					X			
ICV01	1	03:14																					X			
ICB01	1	03:18																					X			
CRDL01	1	03:23																					X			
ICSA01	1	03:27																					X			
ICSAB01	1	03:32																					X			
CCV01	1	03:36																					X			
CCB01	1	03:41																					X			
ZZZZZZ	1	03:45																								
ZZZZZZ	1	03:50																								
ZZZZZZ	1	03:54																								
ZZZZZZ	1	03:59																								
ZZZZZZ	1	04:03																								
ZZZZZZ	5	04:08																								
ZZZZZZ	1	04:12																								
CCV02	1	04:17																					X			
CCB02	1	04:21																					X			
1202006053	1	04:26																					X			
1202006054	1	04:30																					X			
ZZZZZZ	1	04:35																								
ZZZZZZ	1	04:40																								
1202006055	1	04:44																					X			
1202006056	1	04:49																					X			
1202006057	5	04:53																					X			
CCV03	1	04:58																					X			
CCB03	1	05:02																					X			
ZZZZZZ	1	05:07																								
243627001	1	05:12																					X			
ZZZZZZ	1	05:16																								
ZZZZZZ	1	05:21																								
ZZZZZZ	1	05:25																								
CCV04	1	05:30																					X			
CCB04	1	05:34																					X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 04-JAN-10

End Date: 04-JAN-10

Client Sdg: 10-1101-1

Method MS

Data File: 100104-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	16:23																						X		
S10	1	16:24																						X		
S100	1	16:26																						X		
ICV01	1	16:28																						X		
ICB01	1	16:29																						X		
CRDL01	1	16:31																						X		
ICSA01	1	16:33																						X		
ICSAB01	1	16:34																						X		
CCV01	1	16:36																						X		
CCB01	1	16:38																						X		
1202006053	1	16:39																						X		
1202006054	1	16:41																						X		
ZZZZZZ	1	16:43																								
ZZZZZZ	1	16:45																								
1202006055	1	16:46																						X		
1202006056	1	16:48																						X		
1202006057	5	16:50																						X		
CCV02	1	16:51																						X		
CCB02	1	16:53																						X		
ZZZZZZ	1	16:55																								
243627001	1	16:57																						X		
ZZZZZZ	1	16:58																								
ZZZZZZ	1	17:00																								
ZZZZZZ	1	17:02																								
CCV03	1	17:04																						X		
CCB03	1	17:05																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 12-JAN-10

End Date: 12-JAN-10

Client Sdg: 10-1101-1

Method P

Data File: 011210-1

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	12:29	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	12:36			X	X			X	X	X	X						X	X	X	X				X	X
S0.5	1	12:42	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	12:49	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	12:56	X						X				X		X							X				
ICV01	1	13:01	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	13:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	13:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	13:22	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	13:28	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	13:34	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	13:40	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV01	1	13:47	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	13:54	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR03	1	14:12	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	14:19	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	14:26	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202006002	1	14:33	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202006003	1	14:40	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	15:00																								
243627001	1	15:07	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV03	1	15:14	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	15:21	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	15:28																								
ZZZZZZ	1	15:35																								
ZZZZZZ	1	15:42																								
ZZZZZZ	1	15:49																								
ZZZZZZ	1	15:56																								
ZZZZZZ	5	16:02																								
ZZZZZZ	1	16:09																								
ZZZZZZ	1	16:16																								
ZZZZZZ	1	16:23																								
CCV04	1	16:37	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB04	1	16:44	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	16:51																								
ZZZZZZ	1	16:58																								
ZZZZZZ	1	17:05																								
1202006004	1	17:12	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X

Samp No.	D/F	Run Time																								
1202006005	1	17:19	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202006006	5	17:26	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV05	1	17:33	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB05	1	17:40	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: 08-JAN-10

End Date: 08-JAN-10

Client Sdg: 10-1101-1

Method AV

Data File: 010810W1-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:06															X									
S0.2	1	09:08															X									
S0.5	1	09:10															X									
S2.0	1	09:12															X									
S5.0	1	09:14															X									
S10.0	1	09:16															X									
ICV01	1	09:18															X									
ICB01	1	09:20															X									
CRDL01	1	09:22															X									
CCV01	1	09:23															X									
CCB01	1	09:25															X									
ZZZZZZ	1	09:28																								
ZZZZZZ	1	09:30																								
ZZZZZZ	1	09:32																								
ZZZZZZ	1	09:34																								
ZZZZZZ	1	09:36																								
ZZZZZZ	5	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	09:49															X									
ZZZZZZ	1	09:51																								
ZZZZZZ	5	09:53																								
ZZZZZZ	1	09:55																								
1202006475	1	09:57															X									
1202006479	1	09:59															X									
243627001	1	10:01															X									
1202006476	1	10:03															X									
1202006478	1	10:05															X									
1202006477	5	10:07															X									
ZZZZZZ	1	10:08																								
CCV03	1	10:10															X									
CCB03	1	10:12															X									

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1101-1

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. 10-1101-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1101-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u>	<u>MDL</u>	<u>RDL</u>
		<u>(nm)</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: **10-1101-1**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02738	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	-0.44940	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	-0.22121	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	-0.33886	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	-0.13648	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05571	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	0.19671	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.02739	0.00000	0.00000	0.00000	0.00000
Tin	189.927	-0.00058	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-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	24.5549	0.00000	0.00000
Arsenic	188.979	0.52529	0.00000	-0.67113	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	2.54031	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	0.38952	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	-31.5465	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.78023
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	0.63859	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	160.41
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	5.22870	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.35099	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	1.93161	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.39273	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.19810

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

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	42.8126
Antimony	206.836	-0.01635	0.00000	0.00000	0.00000	-22.2146
Arsenic	188.979	-0.21271	0.00000	0.00000	0.00000	1.34645
Barium	233.527	-0.03709	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.13266	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.09998	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01788	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01425	0.00000	0.00000	0.00000	-2.64232
Copper	324.752	-0.05101	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09069	0.00000	0.00000	0.00000	-2.44485
Magnesium	279.077	0.85543	0.00000	0.00000	0.00000	-20.2401
Manganese	257.61	-0.09972	0.00000	0.01862	0.00000	0.00000
Molybdenum	202.031	-0.07094	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80633	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	-0.03176	0.00000	0.01823	12.4291	-3.60863
Selenium	196.026	-3.00009	0.00000	0.00000	0.00000	-3.17982
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	17.4444
Silver	328.068	-0.31825	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-5.85948	0.00000
Tin	189.927	-0.01337	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.12581	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.15211	0.00000	-0.02256	0.00000	-14.2921
Zinc	213.857	0.09548	0.00000	0.03423	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1101-1**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Nickel	Phosphorous	Potassium	Selenium	Silicon
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	0.00000	0.00000
Cadmium	226.502	-0.64279	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	0.44040	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.33191	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	6.38465	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1101-1**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silver	Strontium	Sulfur	Thallium	Tin
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-17.4077
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	-13.8713
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	3.10491
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1101-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Titanium	Uranium	Vanadium	Zinc
Parmname	Wavelength				
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	2.73145	0.00000	-2.31857	0.00000
Arsenic	188.979	-8.38419	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	-2.24883	0.00000
Beryllium	313.107	-1.96555	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.32181	-1.76281	0.00000
Cobalt	228.616	2.12623	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.85359	-3.92851	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-7.67419	0.00000	2.18873	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.44145	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	1.10141	-1.94183	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1101-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1101-1

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>
Aluminum	20	500000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09

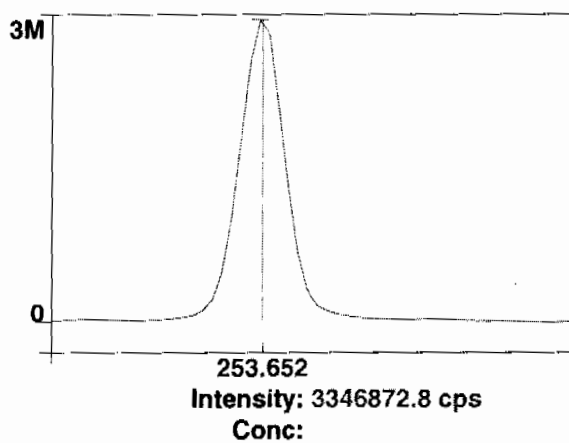
Raw Data

Method: Hg_ReAlign
Result: 011810

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

===== Analysis Begun

Start Time: 1/12/2010 12:29:17

Plasma On Time: 1/11/2010 06:15:31

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\011210.sif

Batch ID:

Results Data Set: 011210

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 1/12/2010 12:29:19

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

----- Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	5152.3	5152.3	101	%	12:31:11
1	Y RADIAL	5561.8	5561.8	101.0	%	12:31:11
1	Al 396.153Radial†	-17.4	-17.3	[0.00]	ug/L	12:31:11
1	Ca 317.933Radial†	15.9	15.8	[0.00]	ug/L	12:31:31
1	Fe 238.204 Radial†	13.1	13.0	[0.00]	ug/L	12:31:31
1	K 766.490 Radial†	2487.0	2471.8	[0.00]	ug/L	12:31:11
1	Mg 279.077 IEC†	3.5	3.5	[0.00]	ug/L	12:31:31
1	Na 589.592 Radial†	-1340.5	-1332.4	[0.00]	ug/L	12:31:11
1	Sr 421.552†	43.2	42.9	[0.00]	ug/L	12:31:11
1	Sc 361.383	853292.3	853292.3	99.443	%	12:32:28
1	Y 371.029	722139.2	722139.2	99.241	%	12:32:28
1	Ag 328.068†	372.1	374.2	[0.00]	ug/L	12:32:28
1	As 188.979†	-22.2	-22.4	[0.00]	ug/L	12:32:48
1	B 249.677†	-606.5	-609.9	[0.00]	ug/L	12:32:48
1	Ba 233.527†	-17.0	-17.1	[0.00]	ug/L	12:32:48
1	Be 313.107†	-4487.2	-4512.3	[0.00]	ug/L	12:32:28
1	Cd 226.502†	-210.7	-211.8	[0.00]	ug/L	12:32:48
1	Co 228.616†	-79.2	-79.6	[0.00]	ug/L	12:32:48
1	Cr 267.716†	79.2	79.7	[0.00]	ug/L	12:32:48
1	Cu 324.752†	6369.9	6405.6	[0.00]	ug/L	12:32:28
1	Mn 257.610†	444.3	446.8	[0.00]	ug/L	12:32:48
1	Mo 202.031†	23.5	23.7	[0.00]	ug/L	12:32:48
1	Ni 231.604†	61.4	61.7	[0.00]	ug/L	12:32:48
1	P 214.914†	223.8	225.0	[0.00]	ug/L	12:32:48
1	Pb 220.353†	-75.1	-75.6	[0.00]	ug/L	12:32:48
1	S 181.975 Axial†	44.9	45.2	[0.00]	ug/L	12:32:48
1	Sb 206.836†	32.0	32.2	[0.00]	ug/L	12:32:48
1	Se 196.026†	-41.9	-42.1	[0.00]	ug/L	12:32:48
1	Si 251.611†	467.0	469.6	[0.00]	ug/L	12:32:48
1	Sn 189.927†	5.0	5.0	[0.00]	ug/L	12:32:48
1	Ti 334.940†	-1279.5	-1286.7	[0.00]	ug/L	12:32:28
1	Tl 190.801†	-34.2	-34.4	[0.00]	ug/L	12:32:48
1	U 409.014†	-1915.4	-1926.1	[0.00]	ug/L	12:32:28
1	V 292.402†	-1335.8	-1343.3	[0.00]	ug/L	12:32:28
1	Zn 213.857†	614.5	618.0	[0.00]	ug/L	12:32:48
1	SiO2†	454.9	457.5	[0.00]	ug/L	12:33:44
2	Sc Radial	5085.0	5085.0	99.3	%	12:31:36
2	Y RADIAL	5464.8	5464.8	99.26	%	12:31:36
2	Al 396.153Radial†	-1.6	-1.6	[0.00]	ug/L	12:31:36
2	Ca 317.933Radial†	19.1	19.2	[0.00]	ug/L	12:31:56
2	Fe 238.204 Radial†	11.7	11.8	[0.00]	ug/L	12:31:56
2	K 766.490 Radial†	2621.8	2640.3	[0.00]	ug/L	12:31:36
2	Mg 279.077 IEC†	1.2	1.2	[0.00]	ug/L	12:31:56
2	Na 589.592 Radial†	-1287.3	-1296.4	[0.00]	ug/L	12:31:36
2	Sr 421.552†	-4.5	-4.5	[0.00]	ug/L	12:31:36
2	Sc 361.383	864012.3	864012.3	100.69	%	12:32:53
2	Y 371.029	733392.9	733392.9	100.79	%	12:32:53

2	Ag 328.068†	342.6	340.2	[0.00]	ug/L	12:32:53
2	As 188.979†	-24.3	-24.1	[0.00]	ug/L	12:33:13
2	B 249.677†	-619.9	-615.7	[0.00]	ug/L	12:33:13
2	Ba 233.527†	-8.0	-8.0	[0.00]	ug/L	12:33:13
2	Be 313.107†	-4468.0	-4437.2	[0.00]	ug/L	12:32:53
2	Cd 226.502†	-192.1	-190.8	[0.00]	ug/L	12:33:13
2	Co 228.616†	-76.4	-75.8	[0.00]	ug/L	12:33:13
2	Cr 267.716†	91.9	91.3	[0.00]	ug/L	12:33:13
2	Cu 324.752†	6472.0	6427.5	[0.00]	ug/L	12:32:53
2	Mn 257.610†	426.6	423.7	[0.00]	ug/L	12:33:13
2	Mo 202.031†	19.1	18.9	[0.00]	ug/L	12:33:13
2	Ni 231.604†	65.0	64.5	[0.00]	ug/L	12:33:13
2	P 214.914†	211.9	210.4	[0.00]	ug/L	12:33:13
2	Pb 220.353†	-49.4	-49.0	[0.00]	ug/L	12:33:13
2	S 181.975 Axial†	47.5	47.1	[0.00]	ug/L	12:33:13
2	Sb 206.836†	33.9	33.6	[0.00]	ug/L	12:33:13
2	Se 196.026†	-28.5	-28.3	[0.00]	ug/L	12:33:13
2	Si 251.611†	462.9	459.7	[0.00]	ug/L	12:33:13
2	Sn 189.927†	-2.3	-2.3	[0.00]	ug/L	12:33:13
2	Ti 334.940†	-1341.3	-1332.0	[0.00]	ug/L	12:32:53
2	Tl 190.801†	-36.4	-36.2	[0.00]	ug/L	12:33:13
2	U 409.014†	-1655.6	-1644.2	[0.00]	ug/L	12:32:53
2	V 292.402†	-1351.5	-1342.2	[0.00]	ug/L	12:32:53
2	Zn 213.857†	635.0	630.6	[0.00]	ug/L	12:33:13
2	SiO2†	442.7	439.7	[0.00]	ug/L	12:33:49
3	Sc Radial	5125.5	5125.5	100	%	12:32:01
3	Y RADIAL	5489.7	5489.7	99.71	%	12:32:01
3	Al 396.153Radial†	0.4	0.4	[0.00]	ug/L	12:32:01
3	Ca 317.933Radial†	22.6	22.6	[0.00]	ug/L	12:32:21
3	Fe 238.204 Radial†	9.9	9.9	[0.00]	ug/L	12:32:21
3	K 766.490 Radial†	2424.7	2422.5	[0.00]	ug/L	12:32:01
3	Mg 279.077 IEC†	4.5	4.5	[0.00]	ug/L	12:32:21
3	Na 589.592 Radial†	-1299.1	-1297.9	[0.00]	ug/L	12:32:01
3	Sr 421.552†	-9.2	-9.2	[0.00]	ug/L	12:32:01
3	Sc 361.383	856910.1	856910.1	99.865	%	12:33:19
3	Y 371.029	727459.0	727459.0	99.972	%	12:33:19
3	Ag 328.068†	356.3	356.8	[0.00]	ug/L	12:33:19
3	As 188.979†	-25.3	-25.4	[0.00]	ug/L	12:33:39
3	B 249.677†	-618.9	-619.8	[0.00]	ug/L	12:33:39
3	Ba 233.527†	-0.6	-0.6	[0.00]	ug/L	12:33:39
3	Be 313.107†	-4468.4	-4474.4	[0.00]	ug/L	12:33:19
3	Cd 226.502†	-202.0	-202.3	[0.00]	ug/L	12:33:39
3	Co 228.616†	-76.2	-76.3	[0.00]	ug/L	12:33:39
3	Cr 267.716†	65.8	65.9	[0.00]	ug/L	12:33:39
3	Cu 324.752†	6365.6	6374.2	[0.00]	ug/L	12:33:19
3	Mn 257.610†	418.4	418.9	[0.00]	ug/L	12:33:39
3	Mo 202.031†	22.3	22.3	[0.00]	ug/L	12:33:39
3	Ni 231.604†	74.7	74.8	[0.00]	ug/L	12:33:39
3	P 214.914†	225.2	225.5	[0.00]	ug/L	12:33:39
3	Pb 220.353†	-61.9	-62.0	[0.00]	ug/L	12:33:39
3	S 181.975 Axial†	39.2	39.3	[0.00]	ug/L	12:33:39
3	Sb 206.836†	34.4	34.5	[0.00]	ug/L	12:33:39
3	Se 196.026†	-25.7	-25.7	[0.00]	ug/L	12:33:39
3	Si 251.611†	452.0	452.6	[0.00]	ug/L	12:33:39
3	Sn 189.927†	2.3	2.3	[0.00]	ug/L	12:33:39
3	Ti 334.940†	-1381.8	-1383.7	[0.00]	ug/L	12:33:19
3	Tl 190.801†	-31.6	-31.7	[0.00]	ug/L	12:33:39
3	U 409.014†	-2018.6	-2021.4	[0.00]	ug/L	12:33:19
3	V 292.402†	-1391.8	-1393.7	[0.00]	ug/L	12:33:19
3	Zn 213.857†	624.5	625.4	[0.00]	ug/L	12:33:39
3	SiO2†	479.3	479.9	[0.00]	ug/L	12:33:54

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	858071.5	5453.55	0.64%	100.00	%
Sc Radial	5120.9	33.88	0.66%	100	%
Y 371.029	727663.7	5629.65	0.77%	100.00	%
Y RADIAL	5505.4	50.37	0.91%	100.0	%
Ag 328.068†	357.1	17.00	4.76%	[0.00]	ug/L

Al 396.153Radial†	-6.2	9.68	156.59%	[0.00]	ug/L
As 188.979†	-23.9	1.50	6.28%	[0.00]	ug/L
B 249.677†	-615.1	4.97	0.81%	[0.00]	ug/L
Ba 233.527†	-8.6	8.28	96.48%	[0.00]	ug/L
Be 313.107†	-4474.7	37.53	0.84%	[0.00]	ug/L
Ca 317.933Radial†	19.2	3.41	17.76%	[0.00]	ug/L
Cd 226.502†	-201.6	10.55	5.23%	[0.00]	ug/L
Co 228.616†	-77.2	2.06	2.67%	[0.00]	ug/L
Cr 267.716†	79.0	12.72	16.11%	[0.00]	ug/L
Cu 324.752†	6402.4	26.77	0.42%	[0.00]	ug/L
Fe 238.204 Radial†	11.6	1.59	13.77%	[0.00]	ug/L
K 766.490 Radial†	2511.5	114.19	4.55%	[0.00]	ug/L
Mg 279.077 IEC†	3.0	1.70	55.71%	[0.00]	ug/L
Mn 257.610†	429.8	14.89	3.47%	[0.00]	ug/L
Mo 202.031†	21.6	2.44	11.30%	[0.00]	ug/L
Na 589.592 Radial†	-1308.9	20.34	1.55%	[0.00]	ug/L
Ni 231.604†	67.0	6.91	10.31%	[0.00]	ug/L
P 214.914†	220.3	8.56	3.89%	[0.00]	ug/L
Pb 220.353†	-62.2	13.27	21.33%	[0.00]	ug/L
S 181.975 Axial†	43.9	4.08	9.30%	[0.00]	ug/L
Sb 206.836†	33.4	1.15	3.43%	[0.00]	ug/L
Se 196.026†	-32.0	8.83	27.55%	[0.00]	ug/L
Si 251.611†	460.7	8.52	1.85%	[0.00]	ug/L
Sn 189.927†	1.7	3.70	222.98%	[0.00]	ug/L
Sr 421.552†	9.7	28.80	295.48%	[0.00]	ug/L
Ti 334.940†	-1334.1	48.54	3.64%	[0.00]	ug/L
Tl 190.801†	-34.1	2.28	6.69%	[0.00]	ug/L
U 409.014†	-1863.9	196.15	10.52%	[0.00]	ug/L
V 292.402†	-1359.7	29.45	2.17%	[0.00]	ug/L
Zn 213.857†	624.7	6.34	1.01%	[0.00]	ug/L
SiO2†	459.0	20.15	4.39%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 1/12/2010 12:36:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc Radial	4965.9	4965.9	97.0 %	12:38:02
1	Y RADIAL	5335.2	5335.2	96.91 %	12:38:02
1	K 766.490 Radial†	7941.2	5677.6	[1000] ug/L	12:37:57
1	Sr 421.552†	14775.2	15226.8	[100] ug/L	12:38:02
1	Sc 361.383	830675.3	830675.3	96.807 %	12:38:29
1	Y 371.029	701666.3	701666.3	96.427 %	12:38:29
1	Ag 328.068†	21871.2	22235.5	[100] ug/L	12:38:29
1	As 188.979†	203.3	233.9	[100] ug/L	12:38:49
1	B 249.677†	3660.8	4396.6	[100] ug/L	12:38:29
1	Ba 233.527†	12920.1	13354.8	[100] ug/L	12:38:29
1	Be 313.107†	257874.4	270853.9	[100] ug/L	12:38:29
1	Cd 226.502†	8881.5	9376.0	[100] ug/L	12:38:29
1	Co 228.616†	4770.5	5005.1	[100] ug/L	12:38:49
1	Cr 267.716†	9051.6	9271.1	[100] ug/L	12:38:29
1	Cu 324.752†	39056.8	33942.5	[100] ug/L	12:38:29
1	Mn 257.610†	92061.8	94668.3	[100] ug/L	12:38:29
1	Mo 202.031†	1430.8	1456.4	[100] ug/L	12:38:49
1	Ni 231.604†	4043.9	4110.2	[100] ug/L	12:38:49
1	P 214.914†	1031.3	845.0	[500] ug/L	12:38:49
1	Pb 220.353†	748.0	834.8	[100] ug/L	12:38:49
1	S 181.975 Axial†	189.8	152.2	[200] ug/L	12:38:49
1	Sb 206.836†	312.2	289.1	[100] ug/L	12:38:49
1	Se 196.026†	137.0	173.6	[100] ug/L	12:38:49
1	Si 251.611†	15797.3	15857.7	[500] ug/L	12:38:29
1	Sn 189.927†	561.7	578.6	[100] ug/L	12:38:49
1	Ti 334.940†	59873.1	63181.9	[100] ug/L	12:38:29
1	Tl 190.801†	292.2	335.9	[100] ug/L	12:38:49
1	U 409.014†	1586.9	3503.1	[100] ug/L	12:38:29
1	V 292.402†	13179.8	14974.2	[100] ug/L	12:38:29
1	Zn 213.857†	11228.2	10973.9	[100] ug/L	12:38:29
1	SiO2†	16145.6	16219.0	[1069.5] ug/L	12:39:45
2	Sc Radial	5017.1	5017.1	98.0 %	12:38:12
2	Y RADIAL	5393.8	5393.8	97.97 %	12:38:12
2	K 766.490 Radial†	7968.7	5621.9	[1000] ug/L	12:38:07
2	Sr 421.552†	14907.3	15205.9	[100] ug/L	12:38:12
2	Sc 361.383	847146.2	847146.2	98.727 %	12:38:54
2	Y 371.029	713989.1	713989.1	98.121 %	12:38:54
2	Ag 328.068†	22274.2	22204.4	[100] ug/L	12:38:54
2	As 188.979†	207.4	234.0	[100] ug/L	12:39:14
2	B 249.677†	3703.9	4366.8	[100] ug/L	12:38:54
2	Ba 233.527†	13155.6	13333.9	[100] ug/L	12:38:54
2	Be 313.107†	262797.3	270661.2	[100] ug/L	12:38:54
2	Cd 226.502†	9031.6	9349.8	[100] ug/L	12:38:54
2	Co 228.616†	4791.3	4930.3	[100] ug/L	12:39:14
2	Cr 267.716†	9227.6	9267.6	[100] ug/L	12:38:54
2	Cu 324.752†	40059.8	34174.0	[100] ug/L	12:38:54
2	Mn 257.610†	94098.4	94882.2	[100] ug/L	12:38:54
2	Mo 202.031†	1441.8	1438.8	[100] ug/L	12:39:14
2	Ni 231.604†	4052.0	4037.2	[100] ug/L	12:39:14
2	P 214.914†	1038.8	831.9	[500] ug/L	12:39:14
2	Pb 220.353†	781.5	853.8	[100] ug/L	12:39:14
2	S 181.975 Axial†	183.5	142.0	[200] ug/L	12:39:14
2	Sb 206.836†	325.7	296.5	[100] ug/L	12:39:14
2	Se 196.026†	121.5	155.1	[100] ug/L	12:39:14
2	Si 251.611†	16155.0	15902.7	[500] ug/L	12:38:54
2	Sn 189.927†	583.6	589.5	[100] ug/L	12:39:14
2	Ti 334.940†	61190.2	63313.5	[100] ug/L	12:38:54
2	Tl 190.801†	288.7	326.5	[100] ug/L	12:39:14
2	U 409.014†	1747.5	3634.0	[100] ug/L	12:38:54

2	V 292.402†	13335.0	14866.7	[100]	ug/L	12:38:54
2	Zn 213.857†	11395.6	10917.9	[100]	ug/L	12:38:54
2	SiO2†	16023.8	15771.4	[1069.5]	ug/L	12:39:50
3	Sc Radial	5038.6	5038.6	98.4	%	12:38:22
3	Y RADIAL	5396.6	5396.6	98.02	%	12:38:22
3	K 766.490 Radial†	7896.9	5514.4	[1000]	ug/L	12:38:17
3	Sr 421.552†	15115.8	15353.1	[100]	ug/L	12:38:22
3	Sc 361.383	839954.8	839954.8	97.889	%	12:39:20
3	Y 371.029	708260.3	708260.3	97.333	%	12:39:20
3	Ag 328.068†	22077.1	22196.2	[100]	ug/L	12:39:20
3	As 188.979†	210.6	239.1	[100]	ug/L	12:39:40
3	B 249.677†	3716.3	4411.6	[100]	ug/L	12:39:20
3	Ba 233.527†	13010.8	13300.0	[100]	ug/L	12:39:20
3	Be 313.107†	261053.3	271158.6	[100]	ug/L	12:39:20
3	Cd 226.502†	8913.5	9307.4	[100]	ug/L	12:39:20
3	Co 228.616†	4825.4	5006.7	[100]	ug/L	12:39:40
3	Cr 267.716†	9169.0	9287.8	[100]	ug/L	12:39:20
3	Cu 324.752†	39580.7	34032.0	[100]	ug/L	12:39:20
3	Mn 257.610†	93356.1	94939.9	[100]	ug/L	12:39:20
3	Mo 202.031†	1443.1	1452.6	[100]	ug/L	12:39:40
3	Ni 231.604†	4074.4	4095.2	[100]	ug/L	12:39:40
3	P 214.914†	1041.6	843.7	[500]	ug/L	12:39:40
3	Pb 220.353†	761.2	839.8	[100]	ug/L	12:39:40
3	S 181.975 Axial†	185.0	145.1	[200]	ug/L	12:39:40
3	Sb 206.836†	315.3	288.6	[100]	ug/L	12:39:40
3	Se 196.026†	132.1	167.0	[100]	ug/L	12:39:40
3	Si 251.611†	15986.8	15870.9	[500]	ug/L	12:39:20
3	Sn 189.927†	572.9	583.6	[100]	ug/L	12:39:40
3	Ti 334.940†	60890.5	63538.0	[100]	ug/L	12:39:20
3	Tl 190.801†	310.5	351.3	[100]	ug/L	12:39:40
3	U 409.014†	1639.2	3538.5	[100]	ug/L	12:39:20
3	V 292.402†	13215.0	14859.8	[100]	ug/L	12:39:20
3	Zn 213.857†	11325.5	10945.1	[100]	ug/L	12:39:20
3	SiO2†	16169.6	16059.3	[1069.5]	ug/L	12:39:55

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	839258.8	8257.45	0.98%	97.808 %
Sc Radial	5007.2	37.35	0.75%	97.8 %
Y 371.029	707971.9	6166.49	0.87%	97.294 %
Y RADIAL	5375.2	34.70	0.65%	97.63 %
Ag 328.068†	22212.0	20.72	0.09%	[100] ug/L
As 188.979†	235.7	2.94	1.25%	[100] ug/L
B 249.677†	4391.7	22.78	0.52%	[100] ug/L
Ba 233.527†	13329.5	27.66	0.21%	[100] ug/L
Be 313.107†	270891.2	250.78	0.09%	[100] ug/L
Cd 226.502†	9344.4	34.62	0.37%	[100] ug/L
Co 228.616†	4980.7	43.63	0.88%	[100] ug/L
Cr 267.716†	9275.5	10.76	0.12%	[100] ug/L
Cu 324.752†	34049.5	116.76	0.34%	[100] ug/L
K 766.490 Radial†	5604.6	82.95	1.48%	[1000] ug/L
Mn 257.610†	94830.1	143.09	0.15%	[100] ug/L
Mo 202.031†	1449.3	9.25	0.64%	[100] ug/L
Ni 231.604†	4080.9	38.55	0.94%	[100] ug/L
P 214.914†	840.2	7.26	0.86%	[500] ug/L
Pb 220.353†	842.8	9.82	1.17%	[100] ug/L
S 181.975 Axial†	146.4	5.23	3.57%	[200] ug/L
Sb 206.836†	291.4	4.42	1.52%	[100] ug/L
Se 196.026†	165.2	9.35	5.66%	[100] ug/L
Si 251.611†	15877.1	23.15	0.15%	[500] ug/L
Sn 189.927†	583.9	5.45	0.93%	[100] ug/L
Sr 421.552†	15261.9	79.65	0.52%	[100] ug/L
Ti 334.940†	63344.5	180.05	0.28%	[100] ug/L
Tl 190.801†	337.9	12.50	3.70%	[100] ug/L
U 409.014†	3558.5	67.70	1.90%	[100] ug/L
V 292.402†	14900.2	64.14	0.43%	[100] ug/L
Zn 213.857†	10945.6	27.98	0.26%	[100] ug/L
SiO2†	16016.6	226.85	1.42%	[1069.5] ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 1/12/2010 12:42:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	5024.8	5024.8	98.1 %		12:43:59
1	Y RADIAL	5332.3	5332.3	96.86 %		12:43:59
1	Al 396.153Radial†	6152.3	6276.2	[5000] ug/L		12:43:59
1	Ca 317.933Radial†	3102.1	3142.3	[5000] ug/L		12:44:19
1	K 766.490 Radial†	28813.6	26853.5	[5000] ug/L		12:43:59
1	Mg 279.077 IEC†	158.6	158.5	[5000] ug/L		12:44:19
1	Sr 421.552†	76236.0	77685.3	[500] ug/L		12:43:59
1	Sc 361.383	853673.3	853673.3	99.487 %		12:45:16
1	Y 371.029	710210.0	710210.0	97.601 %		12:45:16
1	Ag 328.068†	108724.9	108928.0	[500] ug/L		12:45:22
1	As 188.979†	1129.2	1159.0	[500] ug/L		12:45:42
1	B 249.677†	21160.4	21884.6	[500] ug/L		12:45:22
1	Ba 233.527†	63662.4	63999.0	[500] ug/L		12:45:22
1	Be 313.107†	1315242.2	1326493.2	[500] ug/L		12:45:16
1	Cd 226.502†	44932.0	45365.1	[500] ug/L		12:45:22
1	Co 228.616†	24426.6	24629.7	[500] ug/L		12:45:22
1	Cr 267.716†	44685.5	44836.8	[500] ug/L		12:45:22
1	Cu 324.752†	170470.9	164946.7	[500] ug/L		12:45:22
1	Mn 257.610†	452541.6	454443.4	[500] ug/L		12:45:16
1	Mo 202.031†	7083.6	7098.5	[500] ug/L		12:45:42
1	Ni 231.604†	20166.3	20203.1	[500] ug/L		12:45:22
1	P 214.914†	4311.5	4113.4	[2500] ug/L		12:45:42
1	Pb 220.353†	4008.6	4091.4	[500] ug/L		12:45:42
1	S 181.975 Axial†	757.4	717.5	[1000] ug/L		12:45:42
1	Sb 206.836†	1460.8	1434.9	[500] ug/L		12:45:42
1	Se 196.026†	766.5	802.5	[500] ug/L		12:45:42
1	Si 251.611†	78914.3	78860.2	[2500] ug/L		12:45:22
1	Sn 189.927†	2840.1	2853.0	[500] ug/L		12:45:42
1	Ti 334.940†	302319.9	305211.7	[500] ug/L		12:45:22
1	Tl 190.801†	1596.1	1638.4	[500] ug/L		12:45:42
1	U 409.014†	15158.5	17100.5	[500] ug/L		12:45:22
1	V 292.402†	71243.7	72970.5	[500] ug/L		12:45:22
1	Zn 213.857†	53644.2	53295.9	[500] ug/L		12:45:22
1	SiO2†	78940.1	78887.7	[5347.5] ug/L		12:46:49
2	Sc Radial	4999.1	4999.1	97.6 %		12:44:24
2	Y RADIAL	5305.7	5305.7	96.37 %		12:44:24
2	Al 396.153Radial†	6184.4	6341.3	[5000] ug/L		12:44:24
2	Ca 317.933Radial†	3089.4	3145.5	[5000] ug/L		12:44:44
2	K 766.490 Radial†	29019.2	27215.0	[5000] ug/L		12:44:24
2	Mg 279.077 IEC†	155.1	155.8	[5000] ug/L		12:44:44
2	Sr 421.552†	75900.9	77741.2	[500] ug/L		12:44:24
2	Sc 361.383	845314.1	845314.1	98.513 %		12:45:47
2	Y 371.029	703393.2	703393.2	96.665 %		12:45:47
2	Ag 328.068†	107544.0	108810.0	[500] ug/L		12:45:53
2	As 188.979†	1121.1	1161.9	[500] ug/L		12:46:13
2	B 249.677†	21048.5	21981.3	[500] ug/L		12:45:53
2	Ba 233.527†	63044.2	64004.3	[500] ug/L		12:45:53
2	Be 313.107†	1305519.1	1329696.6	[500] ug/L		12:45:47
2	Cd 226.502†	44423.7	45295.8	[500] ug/L		12:45:53
2	Co 228.616†	24109.7	24550.8	[500] ug/L		12:45:53
2	Cr 267.716†	44079.0	44665.3	[500] ug/L		12:45:53
2	Cu 324.752†	168419.2	164558.6	[500] ug/L		12:45:53
2	Mn 257.610†	449113.4	455461.6	[500] ug/L		12:45:47
2	Mo 202.031†	7038.5	7123.1	[500] ug/L		12:46:13
2	Ni 231.604†	19903.8	20137.2	[500] ug/L		12:45:53
2	P 214.914†	4276.6	4120.9	[2500] ug/L		12:46:13
2	Pb 220.353†	4002.3	4124.8	[500] ug/L		12:46:13
2	S 181.975 Axial†	748.5	715.9	[1000] ug/L		12:46:13
2	Sb 206.836†	1460.0	1448.6	[500] ug/L		12:46:13

2	Se 196.026†	758.0	801.5	[500]	ug/L	12:46:13
2	Si 251.611†	77838.3	78552.3	[2500]	ug/L	12:45:53
2	Sn 189.927†	2818.7	2859.6	[500]	ug/L	12:46:13
2	Ti 334.940†	299213.6	305063.5	[500]	ug/L	12:45:53
2	Tl 190.801†	1588.3	1646.4	[500]	ug/L	12:46:13
2	U 409.014†	15019.1	17109.6	[500]	ug/L	12:45:53
2	V 292.402†	70419.3	72841.8	[500]	ug/L	12:45:53
2	Zn 213.857†	53069.6	53245.9	[500]	ug/L	12:45:53
2	SiO2†	79601.2	80343.5	[5347.5]	ug/L	12:46:54
3	Sc Radial	4975.7	4975.7	97.2	%	12:44:49
3	Y RADIAL	5287.9	5287.9	96.05	%	12:44:49
3	Al 396.153Radial†	6153.4	6339.1	[5000]	ug/L	12:44:49
3	Ca 317.933Radial†	3107.8	3179.2	[5000]	ug/L	12:45:09
3	K 766.490 Radial†	28709.1	27035.4	[5000]	ug/L	12:44:49
3	Mg 279.077 IEC†	154.2	155.6	[5000]	ug/L	12:45:09
3	Sr 421.552†	75347.5	77536.6	[500]	ug/L	12:44:49
3	Sc 361.383	848277.4	848277.4	98.859	%	12:46:18
3	Y 371.029	706280.3	706280.3	97.061	%	12:46:18
3	Ag 328.068†	109062.4	109964.6	[500]	ug/L	12:46:24
3	As 188.979†	1115.6	1152.4	[500]	ug/L	12:46:44
3	B 249.677†	21335.7	22197.1	[500]	ug/L	12:46:24
3	Ba 233.527†	63826.1	64571.6	[500]	ug/L	12:46:24
3	Be 313.107†	1309469.9	1329063.7	[500]	ug/L	12:46:18
3	Cd 226.502†	44903.5	45623.5	[500]	ug/L	12:46:24
3	Co 228.616†	24436.7	24796.0	[500]	ug/L	12:46:24
3	Cr 267.716†	44771.0	45209.0	[500]	ug/L	12:46:24
3	Cu 324.752†	170788.8	166358.3	[500]	ug/L	12:46:24
3	Mn 257.610†	449789.1	454552.5	[500]	ug/L	12:46:18
3	Mo 202.031†	7050.2	7110.0	[500]	ug/L	12:46:44
3	Ni 231.604†	20173.9	20339.8	[500]	ug/L	12:46:24
3	P 214.914†	4273.1	4102.1	[2500]	ug/L	12:46:44
3	Pb 220.353†	3990.6	4098.9	[500]	ug/L	12:46:44
3	S 181.975 Axial†	756.0	720.8	[1000]	ug/L	12:46:44
3	Sb 206.836†	1465.4	1448.9	[500]	ug/L	12:46:44
3	Se 196.026†	748.4	789.1	[500]	ug/L	12:46:44
3	Si 251.611†	78816.4	79265.7	[2500]	ug/L	12:46:24
3	Sn 189.927†	2819.4	2850.2	[500]	ug/L	12:46:44
3	Ti 334.940†	303078.9	307912.4	[500]	ug/L	12:46:24
3	Tl 190.801†	1587.5	1640.0	[500]	ug/L	12:46:44
3	U 409.014†	15152.5	17191.3	[500]	ug/L	12:46:24
3	V 292.402†	71541.8	73727.6	[500]	ug/L	12:46:24
3	Zn 213.857†	53692.3	53687.6	[500]	ug/L	12:46:24
3	SiO2†	78726.8	79176.7	[5347.5]	ug/L	12:46:59

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	849088.2	4238.18	0.50%	98.953 %
Sc Radial	4999.8	24.53	0.49%	97.6 %
Y 371.029	706627.8	3421.65	0.48%	97.109 %
Y RADIAL	5308.6	22.32	0.42%	96.43 %
Ag 328.068†	109234.2	635.28	0.58%	[500] ug/L
Al 396.153Radial†	6318.9	36.98	0.59%	[5000] ug/L
As 188.979†	1157.8	4.87	0.42%	[500] ug/L
B 249.677†	22021.0	160.03	0.73%	[500] ug/L
Ba 233.527†	64191.6	329.11	0.51%	[500] ug/L
Be 313.107†	1328417.8	1696.54	0.13%	[500] ug/L
Ca 317.933Radial†	3155.7	20.48	0.65%	[5000] ug/L
Cd 226.502†	45428.1	172.75	0.38%	[500] ug/L
Co 228.616†	24658.8	125.20	0.51%	[500] ug/L
Cr 267.716†	44903.7	277.97	0.62%	[500] ug/L
Cu 324.752†	165287.9	947.11	0.57%	[500] ug/L
K 766.490 Radial†	27034.6	180.76	0.67%	[5000] ug/L
Mg 279.077 IEC†	156.7	1.63	1.04%	[5000] ug/L
Mn 257.610†	454819.2	559.06	0.12%	[500] ug/L
Mo 202.031†	7110.5	12.31	0.17%	[500] ug/L
Ni 231.604†	20226.7	103.35	0.51%	[500] ug/L
P 214.914†	4112.1	9.45	0.23%	[2500] ug/L
Pb 220.353†	4105.1	17.55	0.43%	[500] ug/L
S 181.975 Axial†	718.1	2.50	0.35%	[1000] ug/L

Sb 206.836†	1444.1	7.97	0.55%	[500]	ug/L
Se 196.026†	797.7	7.45	0.93%	[500]	ug/L
Si 251.611†	78892.8	357.79	0.45%	[2500]	ug/L
Sn 189.927†	2854.3	4.81	0.17%	[500]	ug/L
Sr 421.552†	77654.4	105.75	0.14%	[500]	ug/L
Ti 334.940†	306062.5	1603.73	0.52%	[500]	ug/L
Tl 190.801†	1641.6	4.23	0.26%	[500]	ug/L
U 409.014†	17133.8	50.00	0.29%	[500]	ug/L
V 292.402†	73180.0	478.58	0.65%	[500]	ug/L
Zn 213.857†	53409.8	241.86	0.45%	[500]	ug/L
SiO2†	79469.3	770.71	0.97%	[5347.5]	ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 1/12/2010 12:49:10

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	5073.8	5073.8	99.1 %	12:51:03
1	Y RADIAL	5395.5	5395.5	98.00 %	12:51:03
1	Al 396.153Radial†	12636.1	12759.7	[10000] ug/L	12:51:03
1	Ca 317.933Radial†	6355.5	6395.3	[10000] ug/L	12:51:03
1	Fe 238.204 Radial†	1175.7	1175.1	[10000] ug/L	12:51:23
1	K 766.490 Radial†	56644.9	54659.7	[10000] ug/L	12:51:03
1	Mg 279.077 IEC†	312.7	312.6	[10000] ug/L	12:51:23
1	Na 589.592 Radial†	33015.3	34630.9	[10000] ug/L	12:51:03
1	Sr 421.552†	155081.2	156512.5	[1000] ug/L	12:51:03
1	Sc 361.383	846221.3	846221.3	98.619 %	12:52:22
1	Y 371.029	702372.7	702372.7	96.524 %	12:52:22
1	Ag 328.068†	215472.0	218132.3	[1000] ug/L	12:52:22
1	As 188.979†	2274.9	2330.7	[1000] ug/L	12:52:42
1	B 249.677†	43506.0	44730.3	[1000] ug/L	12:52:22
1	Ba 233.527†	127574.2	129369.3	[1000] ug/L	12:52:22
1	Be 313.107†	2606013.2	2646981.7	[1000] ug/L	12:52:22
1	Cd 226.502†	89753.5	91212.1	[1000] ug/L	12:52:22
1	Co 228.616†	48698.0	49457.2	[1000] ug/L	12:52:22
1	Cr 267.716†	89203.4	90373.6	[1000] ug/L	12:52:22
1	Cu 324.752†	338573.0	336911.8	[1000] ug/L	12:52:22
1	Mn 257.610†	901500.9	913695.5	[1000] ug/L	12:52:22
1	Mo 202.031†	14055.5	14230.7	[1000] ug/L	12:52:42
1	Ni 231.604†	39986.4	40479.3	[1000] ug/L	12:52:22
1	P 214.914†	8392.1	8289.3	[5000] ug/L	12:52:42
1	Pb 220.353†	8032.6	8207.3	[1000] ug/L	12:52:42
1	S 181.975 Axial†	1448.9	1425.4	[2000] ug/L	12:52:42
1	Sb 206.836†	2925.5	2933.1	[1000] ug/L	12:52:42
1	Se 196.026†	1524.3	1577.7	[1000] ug/L	12:52:42
1	Si 251.611†	156650.6	158383.7	[5000] ug/L	12:52:22
1	Sn 189.927†	5628.5	5705.7	[1000] ug/L	12:52:42
1	Ti 334.940†	618431.1	628425.6	[1000] ug/L	12:52:22
1	Tl 190.801†	3215.6	3294.7	[1000] ug/L	12:52:42
1	U 409.014†	31667.8	33975.2	[1000] ug/L	12:52:22
1	V 292.402†	144570.6	147954.9	[1000] ug/L	12:52:22
1	Zn 213.857†	105965.2	106824.5	[1000] ug/L	12:52:22
1	SiO2†	155379.5	157096.4	[10695] ug/L	12:53:43
2	Sc Radial	4988.0	4988.0	97.4 %	12:51:28
2	Y RADIAL	5295.4	5295.4	96.19 %	12:51:28
2	Al 396.153Radial†	12473.8	12812.4	[10000] ug/L	12:51:28
2	Ca 317.933Radial†	6265.5	6413.2	[10000] ug/L	12:51:28
2	Fe 238.204 Radial†	1167.7	1187.2	[10000] ug/L	12:51:48
2	K 766.490 Radial†	56111.6	55095.4	[10000] ug/L	12:51:28
2	Mg 279.077 IEC†	306.0	311.2	[10000] ug/L	12:51:48
2	Na 589.592 Radial†	32315.6	34485.7	[10000] ug/L	12:51:28
2	Sr 421.552†	152761.7	156823.2	[1000] ug/L	12:51:28
2	Sc 361.383	829653.5	829653.5	96.688 %	12:52:50
2	Y 371.029	689200.7	689200.7	94.714 %	12:52:50
2	Ag 328.068†	210949.1	217817.7	[1000] ug/L	12:52:50
2	As 188.979†	2263.1	2364.6	[1000] ug/L	12:53:10
2	B 249.677†	42543.7	44616.1	[1000] ug/L	12:52:50
2	Ba 233.527†	125027.3	129318.4	[1000] ug/L	12:52:50
2	Be 313.107†	2548706.4	2640481.8	[1000] ug/L	12:52:50
2	Cd 226.502†	87671.2	90875.9	[1000] ug/L	12:52:50
2	Co 228.616†	47630.8	49339.6	[1000] ug/L	12:52:50
2	Cr 267.716†	87278.9	90189.5	[1000] ug/L	12:52:50
2	Cu 324.752†	330942.7	335876.0	[1000] ug/L	12:52:50
2	Mn 257.610†	882482.0	912279.8	[1000] ug/L	12:52:50
2	Mo 202.031†	14035.4	14494.5	[1000] ug/L	12:53:10
2	Ni 231.604†	39104.5	40376.9	[1000] ug/L	12:52:50

2	P 214.914†	8354.0	8419.9	[5000]	ug/L	12:53:10
2	Pb 220.353†	8001.6	8337.8	[1000]	ug/L	12:53:10
2	S 181.975 Axial†	1446.5	1452.2	[2000]	ug/L	12:53:10
2	Sb 206.836†	2922.6	2989.3	[1000]	ug/L	12:53:10
2	Se 196.026†	1513.1	1596.9	[1000]	ug/L	12:53:10
2	Si 251.611†	153175.1	157961.2	[5000]	ug/L	12:52:50
2	Sn 189.927†	5598.9	5789.0	[1000]	ug/L	12:53:10
2	Ti 334.940†	605255.5	627321.5	[1000]	ug/L	12:52:50
2	Tl 190.801†	3200.5	3344.2	[1000]	ug/L	12:53:10
2	U 409.014†	30971.9	33896.6	[1000]	ug/L	12:52:50
2	V 292.402†	141521.2	147728.4	[1000]	ug/L	12:52:50
2	Zn 213.857†	103413.8	106331.4	[1000]	ug/L	12:52:50
2	SiO2†	154297.4	159123.5	[10695]	ug/L	12:53:48
3	Sc Radial	4905.8	4905.8	95.8	%	12:51:53
3	Y RADIAL	5231.6	5231.6	95.03	%	12:51:53
3	Al 396.153Radial†	12396.0	12945.8	[10000]	ug/L	12:51:53
3	Ca 317.933Radial†	6210.7	6463.8	[10000]	ug/L	12:51:53
3	Fe 238.204 Radial†	1166.1	1205.7	[10000]	ug/L	12:52:13
3	K 766.490 Radial†	55653.3	55582.2	[10000]	ug/L	12:51:53
3	Mg 279.077 IEC†	307.5	318.0	[10000]	ug/L	12:52:13
3	Na 589.592 Radial†	32040.7	34754.5	[10000]	ug/L	12:51:53
3	Sr 421.552†	151046.8	157660.4	[1000]	ug/L	12:51:53
3	Sc 361.383	837776.7	837776.7	97.635	%	12:53:18
3	Y 371.029	696980.4	696980.4	95.783	%	12:53:18
3	Ag 328.068†	212955.6	217757.3	[1000]	ug/L	12:53:18
3	As 188.979†	2260.5	2339.2	[1000]	ug/L	12:53:38
3	B 249.677†	43056.4	44714.5	[1000]	ug/L	12:53:18
3	Ba 233.527†	125824.6	128881.3	[1000]	ug/L	12:53:18
3	Be 313.107†	2576418.8	2643306.4	[1000]	ug/L	12:53:18
3	Cd 226.502†	88246.5	90585.9	[1000]	ug/L	12:53:18
3	Co 228.616†	47773.6	49008.1	[1000]	ug/L	12:53:18
3	Cr 267.716†	87944.1	89995.6	[1000]	ug/L	12:53:18
3	Cu 324.752†	334486.9	336187.3	[1000]	ug/L	12:53:18
3	Mn 257.610†	889040.1	910147.0	[1000]	ug/L	12:53:18
3	Mo 202.031†	14029.4	14347.6	[1000]	ug/L	12:53:38
3	Ni 231.604†	39438.0	40326.3	[1000]	ug/L	12:53:18
3	P 214.914†	8369.8	8352.2	[5000]	ug/L	12:53:38
3	Pb 220.353†	8025.6	8282.2	[1000]	ug/L	12:53:38
3	S 181.975 Axial†	1442.7	1433.8	[2000]	ug/L	12:53:38
3	Sb 206.836†	2921.0	2958.4	[1000]	ug/L	12:53:38
3	Se 196.026†	1513.0	1581.7	[1000]	ug/L	12:53:38
3	Si 251.611†	154313.1	157590.6	[5000]	ug/L	12:53:18
3	Sn 189.927†	5613.7	5748.0	[1000]	ug/L	12:53:38
3	Ti 334.940†	610672.3	626799.7	[1000]	ug/L	12:53:18
3	Tl 190.801†	3206.3	3318.1	[1000]	ug/L	12:53:38
3	U 409.014†	31143.7	33762.0	[1000]	ug/L	12:53:18
3	V 292.402†	142883.2	147704.2	[1000]	ug/L	12:53:18
3	Zn 213.857†	104218.9	106118.9	[1000]	ug/L	12:53:18
3	SiO2†	155832.1	159148.0	[10695]	ug/L	12:53:54

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	837883.8	8284.44	0.99%	97.647 %
Sc Radial	4989.2	83.99	1.68%	97.4 %
Y 371.029	696184.6	6621.96	0.95%	95.674 %
Y RADIAL	5307.5	82.60	1.56%	96.41 %
Ag 328.068†	217902.4	201.37	0.09%	[1000] ug/L
Al 396.153Radial†	12839.3	95.92	0.75%	[10000] ug/L
As 188.979†	2344.8	17.64	0.75%	[1000] ug/L
B 249.677†	44687.0	61.90	0.14%	[1000] ug/L
Ba 233.527†	129189.7	268.30	0.21%	[1000] ug/L
Be 313.107†	2643589.9	3259.21	0.12%	[1000] ug/L
Ca 317.933Radial†	6424.1	35.53	0.55%	[10000] ug/L
Cd 226.502†	90891.3	313.39	0.34%	[1000] ug/L
Co 228.616†	49268.3	232.87	0.47%	[1000] ug/L
Cr 267.716†	90186.2	189.05	0.21%	[1000] ug/L
Cu 324.752†	336325.1	531.46	0.16%	[1000] ug/L
Fe 238.204 Radial†	1189.3	15.40	1.30%	[10000] ug/L
K 766.490 Radial†	55112.4	461.46	0.84%	[10000] ug/L

Mg 279.077 IEC†	313.9	3.59	1.14%	[10000]	ug/L
Mn 257.610†	912040.8	1786.27	0.20%	[1000]	ug/L
Mo 202.031†	14357.6	132.17	0.92%	[1000]	ug/L
Na 589.592 Radial†	34623.7	134.56	0.39%	[10000]	ug/L
Ni 231.604†	40394.2	77.93	0.19%	[1000]	ug/L
P 214.914†	8353.8	65.29	0.78%	[5000]	ug/L
Pb 220.353†	8275.8	65.50	0.79%	[1000]	ug/L
S 181.975 Axial†	1437.1	13.73	0.96%	[2000]	ug/L
Sb 206.836†	2960.2	28.15	0.95%	[1000]	ug/L
Se 196.026†	1585.4	10.17	0.64%	[1000]	ug/L
Si 251.611†	157978.5	396.80	0.25%	[5000]	ug/L
Sn 189.927†	5747.6	41.66	0.72%	[1000]	ug/L
Sr 421.552†	156998.7	593.76	0.38%	[1000]	ug/L
Ti 334.940†	627515.6	830.15	0.13%	[1000]	ug/L
Tl 190.801†	3319.0	24.73	0.75%	[1000]	ug/L
U 409.014†	33877.9	107.82	0.32%	[1000]	ug/L
V 292.402†	147795.8	138.28	0.09%	[1000]	ug/L
Zn 213.857†	106424.9	361.96	0.34%	[1000]	ug/L
SiO2†	158456.0	1177.48	0.74%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 1/12/2010 12:56:05
 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	4925.6	4925.6	96.2 %	12:58:18
1	Y RADIAL	5219.7	5219.7	94.81 %	12:58:18
1	Al 396.153Radial†	59396.7	61758.0	[50000] ug/L	12:57:58
1	Ca 317.933Radial†	29411.7	30558.7	[50000] ug/L	12:57:58
1	Fe 238.204 Radial†	2264.1	2342.3	[20000] ug/L	12:58:18
1	Mg 279.077 IEC†	1441.9	1496.0	[50000] ug/L	12:58:18
1	Na 589.592 Radial†	65409.6	69311.9	[20000] ug/L	12:57:58
1	Sc 361.383	823484.9	823484.9	95.969 %	12:59:15
1	Y 371.029	680559.9	680559.9	93.527 %	12:59:15
2	Sc Radial	4927.3	4927.3	96.2 %	12:58:43
2	Y RADIAL	5225.0	5225.0	94.91 %	12:58:43
2	Al 396.153Radial†	60710.3	63102.4	[50000] ug/L	12:58:23
2	Ca 317.933Radial†	30130.0	31294.9	[50000] ug/L	12:58:23
2	Fe 238.204 Radial†	2264.9	2342.4	[20000] ug/L	12:58:43
2	Mg 279.077 IEC†	1449.8	1503.8	[50000] ug/L	12:58:43
2	Na 589.592 Radial†	66690.7	70620.6	[20000] ug/L	12:58:23
2	Sc 361.383	822525.3	822525.3	95.857 %	12:59:21
2	Y 371.029	680709.4	680709.4	93.547 %	12:59:21
3	Sc Radial	4863.9	4863.9	95.0 %	12:59:08
3	Y RADIAL	5133.4	5133.4	93.24 %	12:59:08
3	Al 396.153Radial†	59330.4	62471.5	[50000] ug/L	12:58:48
3	Ca 317.933Radial†	29380.1	30913.3	[50000] ug/L	12:58:48
3	Fe 238.204 Radial†	2244.9	2351.9	[20000] ug/L	12:59:08
3	Mg 279.077 IEC†	1435.0	1507.8	[50000] ug/L	12:59:08
3	Na 589.592 Radial†	65029.3	69774.3	[20000] ug/L	12:58:48
3	Sc 361.383	827553.8	827553.8	96.443 %	12:59:27
3	Y 371.029	683978.3	683978.3	93.996 %	12:59:27

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	824521.4	2669.63	0.32%	96.090 %
Sc Radial	4905.6	36.11	0.74%	95.8 %
Y 371.029	681749.2	1931.88	0.28%	93.690 %
Y RADIAL	5192.7	51.42	0.99%	94.32 %
Al 396.153Radial†	62444.0	672.63	1.08%	[50000] ug/L
Ca 317.933Radial†	30922.3	368.21	1.19%	[50000] ug/L
Fe 238.204 Radial†	2345.5	5.54	0.24%	[20000] ug/L
Mg 279.077 IEC†	1502.5	5.98	0.40%	[50000] ug/L
Na 589.592 Radial†	69902.3	663.67	0.95%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	218.0	0.00000	0.999998	
Al 396.153Radial	3	Lin Thru 0	0.0	1.250	0.00000	0.999985	
As 188.979	3	Lin Thru 0	0.0	2.339	0.00000	0.999987	
B 249.677	3	Lin Thru 0	0.0	44.55	0.00000	0.999983	
Ba 233.527	3	Lin Thru 0	0.0	129.1	0.00000	0.999993	
Be 313.107	3	Lin Thru 0	0.0	2647	0.00000	0.999996	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.6195	0.00000	0.999971	
Cd 226.502	3	Lin Thru 0	0.0	90.90	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	49.28	0.00000	0.999999	
Cr 267.716	3	Lin Thru 0	0.0	90.13	0.00000	0.999995	
Cu 324.752	3	Lin Thru 0	0.0	335.2	0.00000	0.999976	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1176	0.00000	0.999984	
K 766.490 Radial	3	Lin Thru 0	0.0	5.491	0.00000	0.999970	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0301	0.00000	0.999956
Mn 257.610	3	Lin Thru 0	0.0	911.9	0.00000	0.999993
Mo 202.031	3	Lin Thru 0	0.0	14.33	0.00000	0.999992
Na 589.592 Radia	2	Lin Thru 0	0.0	3.489	0.00000	0.999993
Ni 231.604	3	Lin Thru 0	0.0	40.41	0.00000	0.999999
P 214.914	3	Lin Thru 0	0.0	1.666	0.00000	0.999980
Pb 220.353	3	Lin Thru 0	0.0	8.264	0.00000	0.999993
S 181.975 Axial	3	Lin Thru 0	0.0	0.7186	0.00000	0.999999
Sb 206.836	3	Lin Thru 0	0.0	2.946	0.00000	0.999952
Se 196.026	3	Lin Thru 0	0.0	1.588	0.00000	0.999990
Si 251.611	3	Lin Thru 0	0.0	31.59	0.00000	1.000000
Sn 189.927	3	Lin Thru 0	0.0	5.741	0.00000	0.999995
Sr 421.552	3	Lin Thru 0	0.0	156.6	0.00000	0.999988
Ti 334.940	3	Lin Thru 0	0.0	624.5	0.00000	0.999951
Tl 190.801	3	Lin Thru 0	0.0	3.312	0.00000	0.999989
U 409.014	3	Lin Thru 0	0.0	33.97	0.00000	0.999981
V 292.402	3	Lin Thru 0	0.0	147.5	0.00000	0.999992
Zn 213.857	3	Lin Thru 0	0.0	106.5	0.00000	0.999996
SiO2	3	Lin Thru 0	0.0	14.83	0.00000	0.999999

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 1/12/2010 13:01:38

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	5010.0	5010.0	97.8 %		13:03:31
1	Y RADIAL	5302.4	5302.4	96.31 %		13:03:31
1	Al 396.153Radial†	6249.1	6393.7	5087.4 ug/L	5087.4 ppb	13:03:31
1	Ca 317.933Radial†	3090.1	3139.4	5067.8 ug/L	5067.8 ppb	13:03:51
1	Fe 238.204 Radial†	603.1	604.9	5158.4 ug/L	5158.4 ppb	13:03:51
1	K 766.490 Radial†	15625.6	13460.2	2447.7 ug/L	2447.7 ppb	13:03:31
1	Mg 279.077 IEC†	159.4	159.9	5309.0 ug/L	5309.0 ppb	13:03:51
1	Na 589.592 Radial†	7188.4	8656.5	2481.4 ug/L	2481.4 ppb	13:03:31
1	Sr 421.552†	79944.0	81704.9	521.61 ug/L	521.61 ppb	13:03:31
1	Sc 361.383	849869.6	849869.6	99.044 %		13:04:49
1	Y 371.029	711496.0	711496.0	97.778 %		13:04:49
1	Ag 328.068†	56675.3	56865.2	264.26 ug/L	264.26 ppb	13:04:49
1	As 188.979†	1071.5	1105.8	476.98 ug/L	476.98 ppb	13:05:09
1	B 249.677†	22366.5	23197.5	518.39 ug/L	518.39 ppb	13:04:49
1	Ba 233.527†	65677.2	66319.6	515.13 ug/L	515.13 ppb	13:04:49
1	Be 313.107†	679307.1	690337.6	261.96 ug/L	261.96 ppb	13:04:49
1	Cd 226.502†	45224.8	45862.9	504.40 ug/L	504.40 ppb	13:04:49
1	Co 228.616†	24639.9	24955.0	506.52 ug/L	506.52 ppb	13:05:09
1	Cr 267.716†	44068.9	44415.2	493.40 ug/L	493.40 ppb	13:04:49
1	Cu 324.752†	175664.4	170957.3	509.98 ug/L	509.98 ppb	13:04:49
1	Mn 257.610†	463792.9	467839.1	513.36 ug/L	513.36 ppb	13:04:49
1	Mo 202.031†	7661.7	7714.0	538.71 ug/L	538.71 ppb	13:05:09
1	Ni 231.604†	20007.9	20134.0	497.95 ug/L	497.95 ppb	13:05:09
1	P 214.914†	4370.8	4192.7	2397.8 ug/L	2397.8 ppb	13:05:09
1	Pb 220.353†	4040.5	4141.7	503.01 ug/L	503.01 ppb	13:05:09
1	S 181.975 Axial†	1809.3	1782.9	2480.3 ug/L	2480.3 ppb	13:05:09
1	Sb 206.836†	1486.2	1467.1	516.63 ug/L	516.63 ppb	13:05:09
1	Se 196.026†	3988.7	4059.3	2573.5 ug/L	2573.5 ppb	13:05:09
1	Si 251.611†	152179.8	153187.8	4842.7 ug/L	4842.7 ppb	13:04:49
1	Sn 189.927†	3059.7	3087.6	538.79 ug/L	538.79 ppb	13:05:09
1	Ti 334.940†	308948.9	313264.6	501.47 ug/L	501.47 ppb	13:04:49
1	Tl 190.801†	1676.3	1726.5	524.68 ug/L	524.68 ppb	13:05:09
1	U 409.014†	15115.1	17124.9	502.45 ug/L	502.45 ppb	13:04:49
1	V 292.402†	72741.6	74803.3	514.59 ug/L	514.59 ppb	13:04:49
1	Zn 213.857†	54741.7	54645.3	508.61 ug/L	508.61 ppb	13:04:49
1	SiO2†	151046.2	152044.9	10241 ug/L	10241 ppb	13:06:06
2	Sc Radial	4856.2	4856.2	94.8 %		13:03:56
2	Y RADIAL	5210.4	5210.4	94.64 %		13:03:56
2	Al 396.153Radial†	6393.7	6748.3	5371.2 ug/L	5371.2 ppb	13:03:56
2	Ca 317.933Radial†	3109.0	3259.3	5261.3 ug/L	5261.3 ppb	13:04:16
2	Fe 238.204 Radial†	609.3	631.0	5380.3 ug/L	5380.3 ppb	13:04:16
2	K 766.490 Radial†	16036.5	14399.0	2618.5 ug/L	2618.5 ppb	13:03:56
2	Mg 279.077 IEC†	159.6	165.2	5487.0 ug/L	5487.0 ppb	13:04:16
2	Na 589.592 Radial†	7358.5	9068.4	2599.5 ug/L	2599.5 ppb	13:03:56
2	Sr 421.552†	81707.1	86150.7	549.99 ug/L	549.99 ppb	13:03:56
2	Sc 361.383	857001.6	857001.6	99.875 %		13:05:15
2	Y 371.029	717341.1	717341.1	98.581 %		13:05:15
2	Ag 328.068†	56911.5	56625.5	263.23 ug/L	263.23 ppb	13:05:15
2	As 188.979†	1072.5	1097.7	473.60 ug/L	473.60 ppb	13:05:35
2	B 249.677†	22569.5	23212.7	518.71 ug/L	518.71 ppb	13:05:15
2	Ba 233.527†	66137.2	66228.4	514.43 ug/L	514.43 ppb	13:05:15
2	Be 313.107†	683745.0	689073.3	261.48 ug/L	261.48 ppb	13:05:15
2	Cd 226.502†	45542.1	45800.6	503.69 ug/L	503.69 ppb	13:05:15
2	Co 228.616†	24634.6	24742.6	502.20 ug/L	502.20 ppb	13:05:35
2	Cr 267.716†	44333.4	44309.8	492.23 ug/L	492.23 ppb	13:05:15
2	Cu 324.752†	176283.6	170101.3	507.44 ug/L	507.44 ppb	13:05:15
2	Mn 257.610†	466933.8	467087.0	512.55 ug/L	512.55 ppb	13:05:15
2	Mo 202.031†	7658.4	7646.4	534.01 ug/L	534.01 ppb	13:05:35
2	Ni 231.604†	20023.8	19981.8	494.18 ug/L	494.18 ppb	13:05:35

2	P 214.914†	4371.1	4156.3	2376.4 ug/L	2376.4 ppb	13:05:35
2	Pb 220.353†	4047.0	4114.2	499.73 ug/L	499.73 ppb	13:05:35
2	S 181.975 Axial†	1824.4	1782.8	2480.0 ug/L	2480.0 ppb	13:05:35
2	Sb 206.836†	1488.1	1456.5	512.87 ug/L	512.87 ppb	13:05:35
2	Se 196.026†	4016.9	4054.0	2570.9 ug/L	2570.9 ppb	13:05:35
2	Si 251.611†	153041.2	152771.6	4829.6 ug/L	4829.6 ppb	13:05:15
2	Sn 189.927†	3060.0	3062.1	534.39 ug/L	534.39 ppb	13:05:35
2	Ti 334.940†	310900.4	312622.7	500.46 ug/L	500.46 ppb	13:05:15
2	Tl 190.801†	1705.2	1741.4	529.17 ug/L	529.17 ppb	13:05:35
2	U 409.014†	15024.8	16907.4	496.02 ug/L	496.02 ppb	13:05:15
2	V 292.402†	73186.5	74637.6	513.36 ug/L	513.36 ppb	13:05:15
2	Zn 213.857†	55101.8	54546.0	507.68 ug/L	507.68 ppb	13:05:15
2	SiO2†	152226.2	151957.2	10235 ug/L	10235 ppb	13:06:12
3	Sc Radial	5354.1	5354.1	105 %		13:04:21
3	Y RADIAL	5682.9	5682.9	103.2 %		13:04:21
3	Al 396.153Radial†	6189.2	5925.8	4714.3 ug/L	4714.3 ppb	13:04:21
3	Ca 317.933Radial†	3090.8	2936.9	4741.0 ug/L	4741.0 ppb	13:04:41
3	Fe 238.204 Radial†	608.0	570.0	4860.8 ug/L	4860.8 ppb	13:04:41
3	K 766.490 Radial†	15736.8	12539.8	2280.3 ug/L	2280.3 ppb	13:04:21
3	Mg 279.077 IEC†	160.5	150.5	4997.9 ug/L	4997.9 ppb	13:04:41
3	Na 589.592 Radial†	7199.1	8194.4	2348.9 ug/L	2348.9 ppb	13:04:21
3	Sr 421.552†	79611.9	76134.7	486.05 ug/L	486.05 ppb	13:04:21
3	Sc 361.383	885353.8	885353.8	103.18 %		13:05:41
3	Y 371.029	740833.6	740833.6	101.81 %		13:05:41
3	Ag 328.068†	55805.0	53728.3	249.68 ug/L	249.68 ppb	13:05:41
3	As 188.979†	1075.8	1066.6	459.96 ug/L	459.96 ppb	13:06:01
3	B 249.677†	22064.4	21999.6	491.62 ug/L	491.62 ppb	13:05:41
3	Ba 233.527†	64638.2	62654.9	486.66 ug/L	486.66 ppb	13:05:41
3	Be 313.107†	666405.7	650344.9	246.79 ug/L	246.79 ppb	13:05:41
3	Cd 226.502†	44523.6	43353.3	476.80 ug/L	476.80 ppb	13:05:41
3	Co 228.616†	24528.8	23850.2	484.12 ug/L	484.12 ppb	13:06:01
3	Cr 267.716†	43335.4	41921.0	465.69 ug/L	465.69 ppb	13:05:41
3	Cu 324.752†	172464.7	160747.8	479.53 ug/L	479.53 ppb	13:05:41
3	Mn 257.610†	456774.6	442269.2	485.30 ug/L	485.30 ppb	13:05:41
3	Mo 202.031†	7633.0	7376.2	515.11 ug/L	515.11 ppb	13:06:01
3	Ni 231.604†	19894.6	19214.5	475.21 ug/L	475.21 ppb	13:06:01
3	P 214.914†	4356.1	4001.5	2290.2 ug/L	2290.2 ppb	13:06:01
3	Pb 220.353†	4037.4	3975.1	482.76 ug/L	482.76 ppb	13:06:01
3	S 181.975 Axial†	1806.7	1707.2	2374.9 ug/L	2374.9 ppb	13:06:01
3	Sb 206.836†	1486.6	1407.3	495.53 ug/L	495.53 ppb	13:06:01
3	Se 196.026†	3998.3	3907.2	2476.8 ug/L	2476.8 ppb	13:06:01
3	Si 251.611†	149921.2	144840.7	4578.8 ug/L	4578.8 ppb	13:05:41
3	Sn 189.927†	3048.2	2952.6	515.21 ug/L	515.21 ppb	13:06:01
3	Ti 334.940†	303449.3	295432.6	472.92 ug/L	472.92 ppb	13:05:41
3	Tl 190.801†	1688.1	1670.2	507.45 ug/L	507.45 ppb	13:06:01
3	U 409.014†	14649.8	16062.2	471.26 ug/L	471.26 ppb	13:05:41
3	V 292.402†	71433.0	70591.5	485.72 ug/L	485.72 ppb	13:05:41
3	Zn 213.857†	53890.4	51605.1	480.28 ug/L	480.28 ppb	13:05:41
3	SiO2†	152938.4	147766.5	9952.6 ug/L	9952.6 ppb	13:06:17

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	864075.0	100.70 %	2.187			2.17%
Sc Radial	5073.4	99.1 %	4.98			5.02%
Y 371.029	723223.6	99.390 %	2.1340			2.15%
Y RADIAL	5398.6	98.06 %	4.551			4.64%
Ag 328.068†	55739.7	259.06 ug/L	8.137	259.06 ppb	8.137	3.14%
QC value within limits for Ag 328.068 Recovery = 103.62%						
Al 396.153Radial†	6356.0	5057.7 ug/L	329.45	5057.7 ppb	329.45	6.51%
QC value within limits for Al 396.153Radial Recovery = 101.15%						
As 188.979†	1090.0	470.18 ug/L	9.010	470.18 ppb	9.010	1.92%
QC value within limits for As 188.979 Recovery = 94.04%						
B 249.677†	22803.3	509.57 ug/L	15.551	509.57 ppb	15.551	3.05%
QC value within limits for B 249.677 Recovery = 101.91%						
Ba 233.527†	65067.6	505.41 ug/L	16.236	505.41 ppb	16.236	3.21%
QC value within limits for Ba 233.527 Recovery = 101.08%						
Be 313.107†	676585.3	256.75 ug/L	8.626	256.75 ppb	8.626	3.36%
QC value within limits for Be 313.107 Recovery = 102.70%						
Ca 317.933Radial†	3111.9	5023.4 ug/L	263.00	5023.4 ppb	263.00	5.24%

QC value within limits for Ca 317.933 Radial Recovery = 100.47%								
Cd	226.502†	45005.6	494.96 ug/L	15.732	494.96 ppb	15.732	3.18%	
QC value within limits for Cd 226.502 Recovery = 98.99%								
Co	228.616†	24515.9	497.61 ug/L	11.888	497.61 ppb	11.888	2.39%	
QC value within limits for Co 228.616 Recovery = 99.52%								
Cr	267.716†	43548.7	483.78 ug/L	15.671	483.78 ppb	15.671	3.24%	
QC value within limits for Cr 267.716 Recovery = 96.76%								
Cu	324.752†	167268.8	498.98 ug/L	16.898	498.98 ppb	16.898	3.39%	
QC value within limits for Cu 324.752 Recovery = 99.80%								
Fe	238.204 Radial†	602.0	5133.2 ug/L	260.70	5133.2 ppb	260.70	5.08%	
QC value within limits for Fe 238.204 Radial Recovery = 102.66%								
K	766.490 Radial†	13466.3	2448.8 ug/L	169.14	2448.8 ppb	169.14	6.91%	
QC value within limits for K 766.490 Radial Recovery = 97.95%								
Mg	279.077 IEC†	158.5	5264.7 ug/L	247.56	5264.7 ppb	247.56	4.70%	
QC value within limits for Mg 279.077 IEC Recovery = 105.29%								
Mn	257.610†	459065.1	503.73 ug/L	15.971	503.73 ppb	15.971	3.17%	
QC value within limits for Mn 257.610 Recovery = 100.75%								
Mo	202.031†	7578.9	529.28 ug/L	12.491	529.28 ppb	12.491	2.36%	
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na	589.592 Radial†	8639.8	2476.6 ug/L	125.34	2476.6 ppb	125.34	5.06%	
QC value within limits for Na 589.592 Radial Recovery = 99.06%								
Ni	231.604†	19776.8	489.11 ug/L	12.188	489.11 ppb	12.188	2.49%	
QC value within limits for Ni 231.604 Recovery = 97.82%								
P	214.914†	4116.8	2354.8 ug/L	56.95	2354.8 ppb	56.95	2.42%	
QC value within limits for P 214.914 Recovery = 94.19%								
Pb	220.353†	4077.0	495.17 ug/L	10.873	495.17 ppb	10.873	2.20%	
QC value within limits for Pb 220.353 Recovery = 99.03%								
S	181.975 Axial†	1757.6	2445.1 ug/L	60.75	2445.1 ppb	60.75	2.48%	
QC value within limits for S 181.975 Axial Recovery = 97.80%								
Sb	206.836†	1443.6	508.35 ug/L	11.254	508.35 ppb	11.254	2.21%	
QC value within limits for Sb 206.836 Recovery = 101.67%								
Se	196.026†	4006.8	2540.4 ug/L	55.11	2540.4 ppb	55.11	2.17%	
QC value within limits for Se 196.026 Recovery = 101.62%								
Si	251.611†	150266.7	4750.4 ug/L	148.75	4750.4 ppb	148.75	3.13%	
QC value within limits for Si 251.611 Recovery = 95.01%								
Sn	189.927†	3034.1	529.47 ug/L	12.537	529.47 ppb	12.537	2.37%	
QC value within limits for Sn 189.927 Recovery = 105.89%								
Sr	421.552†	81330.1	519.22 ug/L	32.039	519.22 ppb	32.039	6.17%	
QC value within limits for Sr 421.552 Recovery = 103.84%								
Ti	334.940†	307106.7	491.62 ug/L	16.198	491.62 ppb	16.198	3.29%	
QC value within limits for Ti 334.940 Recovery = 98.32%								
Tl	190.801†	1712.7	520.43 ug/L	11.464	520.43 ppb	11.464	2.20%	
QC value within limits for Tl 190.801 Recovery = 104.09%								
U	409.014†	16698.2	489.91 ug/L	16.468	489.91 ppb	16.468	3.36%	
QC value within limits for U 409.014 Recovery = 97.98%								
V	292.402†	73344.1	504.56 ug/L	16.328	504.56 ppb	16.328	3.24%	
QC value within limits for V 292.402 Recovery = 100.91%								
Zn	213.857†	53598.8	498.86 ug/L	16.092	498.86 ppb	16.092	3.23%	
QC value within limits for Zn 213.857 Recovery = 99.77%								
SiO2†		150589.6	10143 ug/L	164.6	10143 ppb	164.6	1.62%	
QC value within limits for SiO2 Recovery = 94.84%								
All analyte(s) passed QC.								

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 1/12/2010 13:08:27
 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	5132.5	5132.5	100 %		13:10:20
1	Y RADIAL	5490.0	5490.0	99.72 %		13:10:20
1	Al 396.153Radial†	-3.5	2.7	2.1297 ug/L	2.1297 ppb	13:10:20
1	Ca 317.933Radial†	10.8	-8.4	-13.622 ug/L	-13.622 ppb	13:10:40
1	Fe 238.204 Radial†	10.5	-1.0	-8.8942 ug/L	-8.8942 ppb	13:10:40
1	K 766.490 Radial†	2595.7	78.3	14.260 ug/L	14.260 ppb	13:10:20
1	Mg 279.077 IEC†	4.0	0.9	30.951 ug/L	30.951 ppb	13:10:40
1	Na 589.592 Radial†	-1229.1	82.6	23.676 ug/L	23.676 ppb	13:10:20
1	Sr 421.552†	35.1	25.3	0.1616 ug/L	0.1616 ppb	13:10:20
1	Sc 361.383	827959.4	827959.4	96.491 %		13:11:37
1	Y 371.029	702033.6	702033.6	96.478 %		13:11:37
1	Ag 328.068†	260.3	-87.3	-0.4028 ug/L	-0.4028 ppb	13:11:37
1	As 188.979†	-19.0	4.2	1.8003 ug/L	1.8003 ppb	13:11:57
1	B 249.677†	-343.4	259.2	5.8194 ug/L	5.8194 ppb	13:11:57
1	Ba 233.527†	-8.2	0.1	0.0009 ug/L	0.0009 ppb	13:11:57
1	Be 313.107†	-4481.6	-169.9	-0.0640 ug/L	-0.0640 ppb	13:11:37
1	Cd 226.502†	-186.7	8.2	0.0916 ug/L	0.0916 ppb	13:11:57
1	Co 228.616†	-83.1	-8.9	-0.1811 ug/L	-0.1811 ppb	13:11:57
1	Cr 267.716†	68.2	-8.3	-0.0919 ug/L	-0.0919 ppb	13:11:57
1	Cu 324.752†	6276.5	102.4	0.3044 ug/L	0.3044 ppb	13:11:37
1	Mn 257.610†	414.4	-0.3	-0.0025 ug/L	-0.0025 ppb	13:11:57
1	Mo 202.031†	21.3	0.4	0.0283 ug/L	0.0283 ppb	13:11:57
1	Ni 231.604†	86.0	22.1	0.5465 ug/L	0.5465 ppb	13:11:57
1	P 214.914†	217.7	5.3	3.1247 ug/L	3.1247 ppb	13:11:57
1	Pb 220.353†	-56.7	3.4	0.4131 ug/L	0.4131 ppb	13:11:57
1	S 181.975 Axial†	52.0	10.0	13.876 ug/L	13.876 ppb	13:11:57
1	Sb 206.836†	43.9	12.0	4.1234 ug/L	4.1234 ppb	13:11:57
1	Se 196.026†	-27.1	3.9	2.4547 ug/L	2.4547 ppb	13:11:57
1	Si 251.611†	493.4	50.7	1.6044 ug/L	1.6044 ppb	13:11:57
1	Sn 189.927†	14.1	13.0	2.2582 ug/L	2.2582 ppb	13:11:57
1	Ti 334.940†	-1235.0	54.2	0.0820 ug/L	0.0820 ppb	13:11:37
1	Tl 190.801†	-40.9	-8.3	-2.5110 ug/L	-2.5110 ppb	13:11:57
1	U 409.014†	-1763.7	36.0	1.0612 ug/L	1.0612 ppb	13:11:37
1	V 292.402†	-1282.3	30.7	0.2129 ug/L	0.2129 ppb	13:11:37
1	Zn 213.857†	628.7	26.9	0.2498 ug/L	0.2498 ppb	13:11:57
1	SiO2†	453.9	11.4	0.7697 ug/L	0.7697 ppb	13:12:53
2	Sc Radial	5004.1	5004.1	97.7 %		13:10:45
2	Y RADIAL	5395.8	5395.8	98.01 %		13:10:45
2	Al 396.153Radial†	-4.0	2.1	1.6928 ug/L	1.6928 ppb	13:10:45
2	Ca 317.933Radial†	14.7	-4.2	-6.7989 ug/L	-6.7989 ppb	13:11:05
2	Fe 238.204 Radial†	13.0	1.7	14.568 ug/L	14.568 ppb	13:11:05
2	K 766.490 Radial†	2582.5	131.3	23.898 ug/L	23.898 ppb	13:10:45
2	Mg 279.077 IEC†	3.9	0.9	30.582 ug/L	30.582 ppb	13:11:05
2	Na 589.592 Radial†	-1207.7	73.0	20.920 ug/L	20.920 ppb	13:10:45
2	Sr 421.552†	18.7	9.3	0.0597 ug/L	0.0597 ppb	13:10:45
2	Sc 361.383	837584.2	837584.2	97.612 %		13:12:02
2	Y 371.029	710200.8	710200.8	97.600 %		13:12:02
2	Ag 328.068†	283.3	-66.9	-0.2968 ug/L	-0.2968 ppb	13:12:02
2	As 188.979†	-26.9	-3.6	-1.5477 ug/L	-1.5477 ppb	13:12:22
2	B 249.677†	-347.9	258.7	5.8054 ug/L	5.8054 ppb	13:12:22
2	Ba 233.527†	-27.8	-19.9	-0.1535 ug/L	-0.1535 ppb	13:12:22
2	Be 313.107†	-4427.1	-60.7	-0.0230 ug/L	-0.0230 ppb	13:12:02
2	Cd 226.502†	-192.5	4.4	0.0456 ug/L	0.0456 ppb	13:12:22
2	Co 228.616†	-78.8	-3.5	-0.0734 ug/L	-0.0734 ppb	13:12:22
2	Cr 267.716†	62.0	-15.5	-0.1692 ug/L	-0.1692 ppb	13:12:22
2	Cu 324.752†	6241.4	-8.4	-0.0212 ug/L	-0.0212 ppb	13:12:02
2	Mn 257.610†	424.2	4.8	0.0054 ug/L	0.0054 ppb	13:12:22
2	Mo 202.031†	9.0	-12.4	-0.8649 ug/L	-0.8649 ppb	13:12:22
2	Ni 231.604†	47.2	-18.7	-0.4626 ug/L	-0.4626 ppb	13:12:22

2	P 214.914†	230.4	15.7	9.4149 ug/L	9.4149 ppb	13:12:22
2	Pb 220.353†	-61.9	-1.2	-0.1500 ug/L	-0.1500 ppb	13:12:22
2	S 181.975 Axial†	49.5	6.9	9.5401 ug/L	9.5401 ppb	13:12:22
2	Sb 206.836†	34.5	1.9	0.6349 ug/L	0.6349 ppb	13:12:22
2	Se 196.026†	-32.2	-1.0	-0.5626 ug/L	-0.5626 ppb	13:12:22
2	Si 251.611†	452.1	2.5	0.0909 ug/L	0.0909 ppb	13:12:22
2	Sn 189.927†	0.9	-0.7	-0.1311 ug/L	-0.1311 ppb	13:12:22
2	Ti 334.940†	-1310.7	-8.6	-0.0147 ug/L	-0.0147 ppb	13:12:02
2	Tl 190.801†	-29.6	3.8	1.1356 ug/L	1.1356 ppb	13:12:22
2	U 409.014†	-2003.2	-188.3	-5.5451 ug/L	-5.5451 ppb	13:12:02
2	V 292.402†	-1310.4	17.3	0.0921 ug/L	0.0921 ppb	13:12:02
2	Zn 213.857†	635.6	26.5	0.2507 ug/L	0.2507 ppb	13:12:22
2	SiO2†	503.0	56.3	3.8213 ug/L	3.8213 ppb	13:12:58
3	Sc Radial	4986.9	4986.9	97.4 %		13:11:10
3	Y RADIAL	5371.2	5371.2	97.56 %		13:11:10
3	Al 396.153Radial†	-13.1	-7.3	-5.8687 ug/L	-5.8687 ppb	13:11:10
3	Ca 317.933Radial†	14.0	-4.9	-7.8391 ug/L	-7.8391 ppb	13:11:30
3	Fe 238.204 Radial†	8.9	-2.4	-20.530 ug/L	-20.530 ppb	13:11:30
3	K 766.490 Radial†	2484.6	39.8	7.2541 ug/L	7.2541 ppb	13:11:10
3	Mg 279.077 IEC†	1.1	-1.9	-63.992 ug/L	-63.992 ppb	13:11:30
3	Na 589.592 Radial†	-1249.6	25.7	7.3714 ug/L	7.3714 ppb	13:11:10
3	Sr 421.552†	20.7	11.5	0.0733 ug/L	0.0733 ppb	13:11:10
3	Sc 361.383	838620.9	838620.9	97.733 %		13:12:28
3	Y 371.029	710266.2	710266.2	97.609 %		13:12:28
3	Ag 328.068†	248.9	-102.4	-0.4763 ug/L	-0.4763 ppb	13:12:28
3	As 188.979†	-17.2	6.3	2.6868 ug/L	2.6868 ppb	13:12:48
3	B 249.677†	-351.7	255.2	5.7327 ug/L	5.7327 ppb	13:12:48
3	Ba 233.527†	-12.0	-3.7	-0.0300 ug/L	-0.0300 ppb	13:12:48
3	Be 313.107†	-4461.9	-90.7	-0.0343 ug/L	-0.0343 ppb	13:12:28
3	Cd 226.502†	-186.4	10.9	0.1216 ug/L	0.1216 ppb	13:12:48
3	Co 228.616†	-83.1	-7.8	-0.1577 ug/L	-0.1577 ppb	13:12:48
3	Cr 267.716†	81.8	4.7	0.0520 ug/L	0.0520 ppb	13:12:48
3	Cu 324.752†	6300.0	43.7	0.1305 ug/L	0.1305 ppb	13:12:28
3	Mn 257.610†	421.6	1.6	0.0023 ug/L	0.0023 ppb	13:12:48
3	Mo 202.031†	27.4	6.4	0.4431 ug/L	0.4431 ppb	13:12:48
3	Ni 231.604†	72.5	7.2	0.1777 ug/L	0.1777 ppb	13:12:48
3	P 214.914†	219.0	3.7	2.2500 ug/L	2.2500 ppb	13:12:48
3	Pb 220.353†	-56.5	4.4	0.5349 ug/L	0.5349 ppb	13:12:48
3	S 181.975 Axial†	48.5	5.7	7.9861 ug/L	7.9861 ppb	13:12:48
3	Sb 206.836†	39.6	7.0	2.4467 ug/L	2.4467 ppb	13:12:48
3	Se 196.026†	-28.0	3.4	2.0664 ug/L	2.0664 ppb	13:12:48
3	Si 251.611†	475.1	25.4	0.7990 ug/L	0.7990 ppb	13:12:48
3	Sn 189.927†	19.4	18.2	3.1682 ug/L	3.1682 ppb	13:12:48
3	Ti 334.940†	-1314.6	-10.9	-0.0123 ug/L	-0.0123 ppb	13:12:28
3	Tl 190.801†	-37.2	-4.0	-1.2004 ug/L	-1.2004 ppb	13:12:48
3	U 409.014†	-1901.7	-81.9	-2.4097 ug/L	-2.4097 ppb	13:12:28
3	V 292.402†	-1398.1	-70.8	-0.4757 ug/L	-0.4757 ppb	13:12:28
3	Zn 213.857†	626.8	16.7	0.1571 ug/L	0.1571 ppb	13:12:48
3	SiO2†	489.0	41.3	2.7732 ug/L	2.7732 ppb	13:13:03

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834721.5	97.279 %		0.6851			0.70%
Sc Radial	5041.2	98.4 %		1.55			1.58%
Y 371.029	707500.2	97.229 %		0.6506			0.67%
Y RADIAL	5419.0	98.43 %		1.139			1.16%
Ag 328.068†	-85.5	-0.3920 ug/L		0.09024	-0.3920 ppb	0.09024	23.02%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-0.9	-0.6821 ug/L		4.49703	-0.6821 ppb	4.49703	659.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.3	0.9798 ug/L		2.23329	0.9798 ppb	2.23329	227.94%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	257.7	5.7858 ug/L		0.04657	5.7858 ppb	0.04657	0.80%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-7.8	-0.0609 ug/L		0.08169	-0.0609 ppb	0.08169	134.22%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-107.1	-0.0404 ug/L		0.02118	-0.0404 ppb	0.02118	52.39%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-5.8	-9.4201 ug/L		3.67624	-9.4201 ppb	3.67624	39.03%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	7.8	0.0863 ug/L	0.03831	0.0863 ppb	0.03831	44.41%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-6.8	-0.1374 ug/L	0.05662	-0.1374 ppb	0.05662	41.21%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-6.3	-0.0697 ug/L	0.11226	-0.0697 ppb	0.11226	161.13%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	45.9	0.1379 ug/L	0.16295	0.1379 ppb	0.16295	118.17%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.6	-4.9520 ug/L	17.87815	-4.9520 ppb	17.87815	361.03%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	83.1	15.137 ug/L	8.3568	15.137 ppb	8.3568	55.21%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.0	-0.8197 ug/L	54.70932	-0.8197 ppb	54.70932	>999.9%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	2.0	0.0018 ug/L	0.00401	0.0018 ppb	0.00401	227.92%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-1.9	-0.1312 ug/L	0.66844	-0.1312 ppb	0.66844	509.61%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	60.4	17.322 ug/L	8.7273	17.322 ppb	8.7273	50.38%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	3.5	0.0872 ug/L	0.51061	0.0872 ppb	0.51061	585.72%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	8.2	4.9299 ug/L	3.90870	4.9299 ppb	3.90870	79.29%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	2.2	0.2660 ug/L	0.36539	0.2660 ppb	0.36539	137.36%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	7.5	10.467 ug/L	3.0527	10.467 ppb	3.0527	29.16%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	7.0	2.4017 ug/L	1.74473	2.4017 ppb	1.74473	72.65%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	2.1	1.3195 ug/L	1.64149	1.3195 ppb	1.64149	124.40%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	26.2	0.8314 ug/L	0.75728	0.8314 ppb	0.75728	91.08%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	10.1	1.7651 ug/L	1.70403	1.7651 ppb	1.70403	96.54%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	15.4	0.0982 ug/L	0.05530	0.0982 ppb	0.05530	56.32%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	11.6	0.0183 ug/L	0.05515	0.0183 ppb	0.05515	300.73%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-2.8	-0.8586 ug/L	1.84716	-0.8586 ppb	1.84716	215.14%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-78.1	-2.2978 ug/L	3.30458	-2.2978 ppb	3.30458	143.81%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-7.6	-0.0569 ug/L	0.36767	-0.0569 ppb	0.36767	646.20%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	23.4	0.2192 ug/L	0.05379	0.2192 ppb	0.05379	24.54%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		36.3	2.4548 ug/L	1.55053	2.4548 ppb	1.55053	63.16%		
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: 1/12/2010 13:15:14

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	5072.5	5072.5	99.1 %		13:17:07
1	Y RADIAL	5458.5	5458.5	99.15 %		13:17:07
1	Al 396.153Radial†	261.2	269.9	215.41 ug/L	215.41 ppb	13:17:07
1	Ca 317.933Radial†	152.0	134.2	216.69 ug/L	216.69 ppb	13:17:27
1	Fe 238.204 Radial†	21.9	10.6	90.073 ug/L	90.073 ppb	13:17:27
1	K 766.490 Radial†	3378.5	899.2	163.53 ug/L	163.53 ppb	13:17:07
1	Mg 279.077 IEC†	9.7	6.7	223.91 ug/L	223.91 ppb	13:17:27
1	Na 589.592 Radial†	-206.1	1100.8	315.55 ug/L	315.55 ppb	13:17:07
1	Sr 421.552†	777.9	775.6	4.9502 ug/L	4.9502 ppb	13:17:07
1	Sc 361.383	867851.8	867851.8	101.14 %		13:18:24
1	Y 371.029	732628.4	732628.4	100.68 %		13:18:24
1	Ag 328.068†	1455.1	1081.6	4.9654 ug/L	4.9654 ppb	13:18:29
1	As 188.979†	45.4	68.8	29.453 ug/L	29.453 ppb	13:18:49
1	B 249.677†	1583.3	2180.6	48.915 ug/L	48.915 ppb	13:18:29
1	Ba 233.527†	642.5	643.9	5.0029 ug/L	5.0029 ppb	13:18:49
1	Be 313.107†	8400.4	12780.4	4.8398 ug/L	4.8398 ppb	13:18:29
1	Cd 226.502†	253.8	452.6	4.9829 ug/L	4.9829 ppb	13:18:49
1	Co 228.616†	158.0	233.5	4.7485 ug/L	4.7485 ppb	13:18:49
1	Cr 267.716†	509.0	424.3	4.6951 ug/L	4.6951 ppb	13:18:49
1	Cu 324.752†	9721.0	3209.0	9.5477 ug/L	9.5477 ppb	13:18:29
1	Mn 257.610†	9876.0	9334.9	10.237 ug/L	10.237 ppb	13:18:29
1	Mo 202.031†	159.9	136.5	9.5349 ug/L	9.5349 ppb	13:18:49
1	Ni 231.604†	265.7	195.7	4.8409 ug/L	4.8409 ppb	13:18:49
1	P 214.914†	464.5	238.9	141.23 ug/L	141.23 ppb	13:18:49
1	Pb 220.353†	9.7	71.8	8.7526 ug/L	8.7526 ppb	13:18:49
1	S 181.975 Axial†	122.9	77.6	108.00 ug/L	108.00 ppb	13:18:49
1	Sb 206.836†	63.0	28.8	10.119 ug/L	10.119 ppb	13:18:49
1	Se 196.026†	12.6	44.5	28.330 ug/L	28.330 ppb	13:18:49
1	Si 251.611†	3584.3	3083.3	97.488 ug/L	97.488 ppb	13:18:29
1	Sn 189.927†	58.7	56.4	9.8653 ug/L	9.8653 ppb	13:18:49
1	Ti 334.940†	1725.7	3040.4	4.8541 ug/L	4.8541 ppb	13:18:29
1	Tl 190.801†	39.4	73.1	22.120 ug/L	22.120 ppb	13:18:49
1	U 409.014†	-23.6	1840.5	54.161 ug/L	54.161 ppb	13:18:24
1	V 292.402†	-611.1	755.5	5.3493 ug/L	5.3493 ppb	13:18:29
1	Zn 213.857†	1755.3	1110.9	10.376 ug/L	10.376 ppb	13:18:49
1	SiO2†	3608.3	3108.7	209.41 ug/L	209.41 ppb	13:19:55
2	Sc Radial	5060.1	5060.1	98.8 %		13:17:32
2	Y RADIAL	5452.4	5452.4	99.04 %		13:17:32
2	Al 396.153Radial†	245.7	254.8	203.36 ug/L	203.36 ppb	13:17:32
2	Ca 317.933Radial†	144.1	126.6	204.32 ug/L	204.32 ppb	13:17:52
2	Fe 238.204 Radial†	22.7	11.4	97.409 ug/L	97.409 ppb	13:17:52
2	K 766.490 Radial†	3309.1	837.4	152.28 ug/L	152.28 ppb	13:17:32
2	Mg 279.077 IEC†	12.6	9.7	322.16 ug/L	322.16 ppb	13:17:52
2	Na 589.592 Radial†	-179.5	1127.3	323.13 ug/L	323.13 ppb	13:17:32
2	Sr 421.552†	766.3	765.8	4.8875 ug/L	4.8875 ppb	13:17:32
2	Sc 361.383	857551.6	857551.6	99.939 %		13:18:54
2	Y 371.029	725347.9	725347.9	99.682 %		13:18:54
2	Ag 328.068†	1468.5	1112.3	5.1069 ug/L	5.1069 ppb	13:18:59
2	As 188.979†	41.4	65.4	27.983 ug/L	27.983 ppb	13:19:20
2	B 249.677†	1646.3	2262.4	50.750 ug/L	50.750 ppb	13:18:59
2	Ba 233.527†	627.0	636.0	4.9413 ug/L	4.9413 ppb	13:19:20
2	Be 313.107†	8517.0	12996.9	4.9218 ug/L	4.9218 ppb	13:18:59
2	Cd 226.502†	246.5	448.3	4.9358 ug/L	4.9358 ppb	13:19:20
2	Co 228.616†	166.3	243.7	4.9545 ug/L	4.9545 ppb	13:19:20
2	Cr 267.716†	507.7	429.0	4.7470 ug/L	4.7470 ppb	13:19:20
2	Cu 324.752†	9880.2	3483.8	10.367 ug/L	10.367 ppb	13:18:59
2	Mn 257.610†	9864.5	9440.7	10.350 ug/L	10.350 ppb	13:18:59
2	Mo 202.031†	157.0	135.5	9.4648 ug/L	9.4648 ppb	13:19:20
2	Ni 231.604†	278.8	211.9	5.2417 ug/L	5.2417 ppb	13:19:20

2	P 214.914†	474.0	254.0	150.10 ug/L	150.10 ppb	13:19:20
2	Pb 220.353†	17.2	79.4	9.6676 ug/L	9.6676 ppb	13:19:20
2	S 181.975 Axial†	118.9	75.1	104.50 ug/L	104.50 ppb	13:19:20
2	Sb 206.836†	73.6	40.2	13.978 ug/L	13.978 ppb	13:19:20
2	Se 196.026†	11.2	43.2	27.549 ug/L	27.549 ppb	13:19:20
2	Si 251.611†	3602.3	3143.8	99.405 ug/L	99.405 ppb	13:18:59
2	Sn 189.927†	62.6	61.0	10.654 ug/L	10.654 ppb	13:19:20
2	Ti 334.940†	1773.8	3109.1	4.9540 ug/L	4.9540 ppb	13:18:59
2	Tl 190.801†	28.6	62.7	18.985 ug/L	18.985 ppb	13:19:20
2	U 409.014†	3.3	1867.2	54.945 ug/L	54.945 ppb	13:18:54
2	V 292.402†	-640.2	719.1	5.1041 ug/L	5.1041 ppb	13:18:59
2	Zn 213.857†	1761.7	1138.1	10.627 ug/L	10.627 ppb	13:19:20
2	SiO2†	3588.3	3131.5	210.96 ug/L	210.96 ppb	13:20:00
3	Sc Radial	5313.6	5313.6	104 %		13:17:57
3	Y RADIAL	5695.4	5695.4	103.5 %		13:17:57
3	Al 396.153Radial†	256.2	253.1	201.93 ug/L	201.93 ppb	13:17:57
3	Ca 317.933Radial†	143.5	119.1	192.24 ug/L	192.24 ppb	13:18:18
3	Fe 238.204 Radial†	23.1	10.7	90.971 ug/L	90.971 ppb	13:18:18
3	K 766.490 Radial†	3366.1	732.5	133.19 ug/L	133.19 ppb	13:17:57
3	Mg 279.077 IEC†	11.1	7.7	255.26 ug/L	255.26 ppb	13:18:18
3	Na 589.592 Radial†	-197.0	1119.0	320.76 ug/L	320.76 ppb	13:17:57
3	Sr 421.552†	762.9	725.5	4.6306 ug/L	4.6306 ppb	13:17:57
3	Sc 361.383	855818.5	855818.5	99.737 %		13:19:25
3	Y 371.029	723943.9	723943.9	99.489 %		13:19:25
3	Ag 328.068†	1367.5	1014.0	4.6585 ug/L	4.6585 ppb	13:19:30
3	As 188.979†	53.4	77.5	33.166 ug/L	33.166 ppb	13:19:50
3	B 249.677†	1602.2	2221.5	49.834 ug/L	49.834 ppb	13:19:30
3	Ba 233.527†	621.1	631.3	4.9054 ug/L	4.9054 ppb	13:19:50
3	Be 313.107†	8534.7	13031.8	4.9351 ug/L	4.9351 ppb	13:19:30
3	Cd 226.502†	247.1	449.4	4.9469 ug/L	4.9469 ppb	13:19:50
3	Co 228.616†	165.2	242.9	4.9398 ug/L	4.9398 ppb	13:19:50
3	Cr 267.716†	497.0	419.3	4.6413 ug/L	4.6413 ppb	13:19:50
3	Cu 324.752†	9737.0	3360.2	10.001 ug/L	10.001 ppb	13:19:30
3	Mn 257.610†	9958.5	9554.9	10.477 ug/L	10.477 ppb	13:19:30
3	Mo 202.031†	163.9	142.7	9.9685 ug/L	9.9685 ppb	13:19:50
3	Ni 231.604†	255.4	189.1	4.6763 ug/L	4.6763 ppb	13:19:50
3	P 214.914†	469.5	250.4	148.04 ug/L	148.04 ppb	13:19:50
3	Pb 220.353†	32.4	94.7	11.520 ug/L	11.520 ppb	13:19:50
3	S 181.975 Axial†	111.1	67.5	93.935 ug/L	93.935 ppb	13:19:50
3	Sb 206.836†	61.2	27.9	9.8257 ug/L	9.8257 ppb	13:19:50
3	Se 196.026†	18.7	50.7	32.271 ug/L	32.271 ppb	13:19:50
3	Si 251.611†	3583.7	3132.5	99.041 ug/L	99.041 ppb	13:19:30
3	Sn 189.927†	60.9	59.4	10.379 ug/L	10.379 ppb	13:19:50
3	Ti 334.940†	1792.6	3131.4	4.9954 ug/L	4.9954 ppb	13:19:30
3	Tl 190.801†	21.4	55.5	16.814 ug/L	16.814 ppb	13:19:50
3	U 409.014†	-127.5	1736.0	51.086 ug/L	51.086 ppb	13:19:25
3	V 292.402†	-605.6	752.5	5.3299 ug/L	5.3299 ppb	13:19:30
3	Zn 213.857†	1750.5	1130.4	10.559 ug/L	10.559 ppb	13:19:50
3	SiO2†	3596.2	3146.6	211.96 ug/L	211.96 ppb	13:20:05

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860407.3	100.27 %	0.758			0.76%
Sc Radial	5148.7	101 %	2.8			2.78%
Y 371.029	727306.7	99.951 %	0.6407			0.64%
Y RADIAL	5535.4	100.5 %	2.52			2.50%
Ag 328.068†	1069.3	4.9103 ug/L	0.22926	4.9103 ppb	0.22926	4.67%
QC value within limits for Ag 328.068 Recovery = 98.21%						
Al 396.153Radial†	259.3	206.90 ug/L	7.402	206.90 ppb	7.402	3.58%
QC value within limits for Al 396.153Radial Recovery = 103.45%						
As 188.979†	70.5	30.201 ug/L	2.6710	30.201 ppb	2.6710	8.84%
QC value within limits for As 188.979 Recovery = 100.67%						
B 249.677†	2221.5	49.833 ug/L	0.9173	49.833 ppb	0.9173	1.84%
QC value within limits for B 249.677 Recovery = 99.67%						
Ba 233.527†	637.0	4.9499 ug/L	0.04930	4.9499 ppb	0.04930	1.00%
QC value within limits for Ba 233.527 Recovery = 99.00%						
Be 313.107†	12936.4	4.8989 ug/L	0.05163	4.8989 ppb	0.05163	1.05%
QC value within limits for Be 313.107 Recovery = 97.98%						
Ca 317.933Radial†	126.6	204.42 ug/L	12.226	204.42 ppb	12.226	5.98%

QC value within limits for Ca 317.933 Radial Recovery = 102.21%							
Cd 226.502†	450.1	4.9552 ug/L	0.02461	4.9552 ppb	0.02461	0.50%	
QC value within limits for Cd 226.502 Recovery = 99.10%							
Co 228.616†	240.0	4.8809 ug/L	0.11492	4.8809 ppb	0.11492	2.35%	
QC value within limits for Co 228.616 Recovery = 97.62%							
Cr 267.716†	424.2	4.6945 ug/L	0.05284	4.6945 ppb	0.05284	1.13%	
QC value within limits for Cr 267.716 Recovery = 93.89%							
Cu 324.752†	3351.0	9.9718 ug/L	0.41050	9.9718 ppb	0.41050	4.12%	
QC value within limits for Cu 324.752 Recovery = 99.72%							
Fe 238.204 Radial†	10.9	92.818 ug/L	4.0015	92.818 ppb	4.0015	4.31%	
QC value within limits for Fe 238.204 Radial Recovery = 92.82%							
K 766.490 Radial†	823.0	149.67 ug/L	15.339	149.67 ppb	15.339	10.25%	
QC value within limits for K 766.490 Radial Recovery = 99.78%							
Mg 279.077 IEC†	8.0	267.11 ug/L	50.184	267.11 ppb	50.184	18.79%	
QC value within limits for Mg 279.077 IEC Recovery = 89.04%							
Mn 257.610†	9443.5	10.355 ug/L	0.1201	10.355 ppb	0.1201	1.16%	
QC value within limits for Mn 257.610 Recovery = 103.55%							
Mo 202.031†	138.2	9.6561 ug/L	0.27283	9.6561 ppb	0.27283	2.83%	
QC value within limits for Mo 202.031 Recovery = 96.56%							
Na 589.592 Radial†	1115.7	319.81 ug/L	3.881	319.81 ppb	3.881	1.21%	
QC value within limits for Na 589.592 Radial Recovery = 106.60%							
Ni 231.604†	198.9	4.9196 ug/L	0.29084	4.9196 ppb	0.29084	5.91%	
QC value within limits for Ni 231.604 Recovery = 98.39%							
P 214.914†	247.8	146.46 ug/L	4.638	146.46 ppb	4.638	3.17%	
QC value within limits for P 214.914 Recovery = 97.64%							
Pb 220.353†	82.0	9.9802 ug/L	1.41008	9.9802 ppb	1.41008	14.13%	
QC value within limits for Pb 220.353 Recovery = 99.80%							
S 181.975 Axial†	73.4	102.14 ug/L	7.322	102.14 ppb	7.322	7.17%	
QC value within limits for S 181.975 Axial Recovery = 102.14%							
Sb 206.836†	32.3	11.307 ug/L	2.3171	11.307 ppb	2.3171	20.49%	
QC value within limits for Sb 206.836 Recovery = 113.07%							
Se 196.026†	46.2	29.383 ug/L	2.5306	29.383 ppb	2.5306	8.61%	
QC value within limits for Se 196.026 Recovery = 97.94%							
Si 251.611†	3119.9	98.645 ug/L	1.0184	98.645 ppb	1.0184	1.03%	
QC value within limits for Si 251.611 Recovery = 98.64%							
Sn 189.927†	58.9	10.299 ug/L	0.4003	10.299 ppb	0.4003	3.89%	
QC value within limits for Sn 189.927 Recovery = 102.99%							
Sr 421.552†	755.6	4.8228 ug/L	0.16938	4.8228 ppb	0.16938	3.51%	
QC value within limits for Sr 421.552 Recovery = 96.46%							
Ti 334.940†	3093.6	4.9345 ug/L	0.07263	4.9345 ppb	0.07263	1.47%	
QC value within limits for Ti 334.940 Recovery = 98.69%							
Tl 190.801†	63.8	19.306 ug/L	2.6676	19.306 ppb	2.6676	13.82%	
QC value within limits for Tl 190.801 Recovery = 96.53%							
U 409.014†	1814.6	53.398 ug/L	2.0395	53.398 ppb	2.0395	3.82%	
QC value within limits for U 409.014 Recovery = 106.80%							
V 292.402†	742.4	5.2611 ug/L	0.13633	5.2611 ppb	0.13633	2.59%	
QC value within limits for V 292.402 Recovery = 105.22%							
Zn 213.857†	1126.5	10.521 ug/L	0.1299	10.521 ppb	0.1299	1.23%	
QC value within limits for Zn 213.857 Recovery = 105.21%							
SiO2†	3128.9	210.78 ug/L	1.284	210.78 ppb	1.284	0.61%	
QC value within limits for SiO2 Recovery = 98.96%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 1/12/2010 13:22:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc Radial	4817.3	4817.3	94.1	%			13:24:15
1	Y RADIAL	5136.5	5136.5	93.30	%			13:24:15
1	Al 396.153Radial†	573761.5	609935.9	487810	ug/L	487810	ppb	13:24:10
1	Ca 317.933Radial†	263181.8	279752.8	451590	ug/L	451590	ppb	13:24:10
1	Fe 238.204 Radial†	19492.7	20709.9	176090	ug/L	176090	ppb	13:24:15
1	K 766.490 Radial†	2332.2	-32.3	-156.94	ug/L	-156.94	ppb	13:24:15
1	Mg 279.077 IEC†	13027.3	13845.4	459580	ug/L	459580	ppb	13:24:15
1	Na 589.592 Radial†	-1051.6	191.0	54.759	ug/L	54.759	ppb	13:24:15
1	Sr 421.552†	558.9	584.4	0.3588	ug/L	0.3588	ppb	13:24:15
1	Sc 361.383	725568.7	725568.7	84.558	%			13:24:42
1	Y 371.029	596091.4	596091.4	81.919	%			13:24:42
1	Ag 328.068†	-9801.9	-11948.9	-3.8464	ug/L	-3.8464	ppb	13:24:42
1	As 188.979†	-98.7	-92.8	1.4302	ug/L	1.4302	ppb	13:25:02
1	B 249.677†	552.5	1268.5	-0.1280	ug/L	-0.1280	ppb	13:24:42
1	Ba 233.527†	-409.5	-475.7	1.7152	ug/L	1.7152	ppb	13:25:02
1	Be 313.107†	-4390.5	-717.6	-0.3234	ug/L	-0.3234	ppb	13:24:42
1	Cd 226.502†	1262.3	1694.5	0.4589	ug/L	0.4589	ppb	13:25:02
1	Co 228.616†	-7.2	68.7	-1.1464	ug/L	-1.1464	ppb	13:25:02
1	Cr 267.716†	-105.8	-204.0	1.1749	ug/L	1.1749	ppb	13:25:02
1	Cu 324.752†	4073.8	-1584.7	4.5768	ug/L	4.5768	ppb	13:24:42
1	Mn 257.610†	2225.8	2202.4	1.0087	ug/L	1.0087	ppb	13:24:42
1	Mo 202.031†	-210.2	-270.2	0.1861	ug/L	0.1861	ppb	13:25:02
1	Ni 231.604†	178.8	144.5	3.5745	ug/L	3.5745	ppb	13:25:02
1	P 214.914†	175.5	-12.7	-27.404	ug/L	-27.404	ppb	13:25:02
1	Pb 220.353†	-746.8	-821.0	5.8603	ug/L	5.8603	ppb	13:25:02
1	S 181.975 Axial†	88.7	61.0	-6.5613	ug/L	-6.5613	ppb	13:25:02
1	Sb 206.836†	52.2	28.3	-2.6917	ug/L	-2.6917	ppb	13:25:02
1	Se 196.026†	-801.7	-916.1	-28.770	ug/L	-28.770	ppb	13:25:02
1	Si 251.611†	536.8	174.1	5.7445	ug/L	5.7445	ppb	13:25:02
1	Sn 189.927†	-354.7	-421.2	5.4411	ug/L	5.4411	ppb	13:25:02
1	Ti 334.940†	-13276.1	-14366.5	0.7789	ug/L	0.7789	ppb	13:24:42
1	Tl 190.801†	-86.6	-68.3	-20.848	ug/L	-20.848	ppb	13:25:02
1	U 409.014†	-724.9	1006.6	9.5634	ug/L	9.5634	ppb	13:24:42
1	V 292.402†	1329.7	2932.2	-0.0103	ug/L	-0.0103	ppb	13:25:02
1	Zn 213.857†	2869.2	2768.5	8.8907	ug/L	8.8907	ppb	13:25:02
1	SiO2†	553.7	195.7	13.716	ug/L	13.716	ppb	13:25:58
2	Sc Radial	4532.2	4532.2	88.5	%			13:24:25
2	Y RADIAL	4831.5	4831.5	87.76	%			13:24:25
2	Al 396.153Radial†	569974.3	644014.7	515070	ug/L	515070	ppb	13:24:20
2	Ca 317.933Radial†	261076.2	294968.3	476160	ug/L	476160	ppb	13:24:20
2	Fe 238.204 Radial†	19365.5	21869.3	185950	ug/L	185950	ppb	13:24:25
2	K 766.490 Radial†	2347.6	141.0	-133.60	ug/L	-133.60	ppb	13:24:25
2	Mg 279.077 IEC†	13011.0	14698.0	487880	ug/L	487880	ppb	13:24:25
2	Na 589.592 Radial†	-1055.5	116.2	33.320	ug/L	33.320	ppb	13:24:25
2	Sr 421.552†	557.8	620.6	0.4065	ug/L	0.4065	ppb	13:24:25
2	Sc 361.383	725883.6	725883.6	84.595	%			13:25:07
2	Y 371.029	598473.2	598473.2	82.246	%			13:25:07
2	Ag 328.068†	-9770.6	-11907.0	-0.8017	ug/L	-0.8017	ppb	13:25:07
2	As 188.979†	-83.1	-74.3	11.621	ug/L	11.621	ppb	13:25:28
2	B 249.677†	446.6	1143.0	-4.5455	ug/L	-4.5455	ppb	13:25:07
2	Ba 233.527†	-430.3	-500.1	1.8255	ug/L	1.8255	ppb	13:25:28
2	Be 313.107†	-4402.1	-729.1	-0.3275	ug/L	-0.3275	ppb	13:25:07
2	Cd 226.502†	1261.3	1692.7	-0.5778	ug/L	-0.5778	ppb	13:25:28
2	Co 228.616†	-26.5	46.0	-1.7482	ug/L	-1.7482	ppb	13:25:28
2	Cr 267.716†	-106.6	-204.9	1.3539	ug/L	1.3539	ppb	13:25:28
2	Cu 324.752†	4055.2	-1608.8	5.0234	ug/L	5.0234	ppb	13:25:07
2	Mn 257.610†	2147.2	2108.4	0.7218	ug/L	0.7218	ppb	13:25:07
2	Mo 202.031†	-202.6	-261.1	1.8824	ug/L	1.8824	ppb	13:25:28
2	Ni 231.604†	186.3	153.3	3.7922	ug/L	3.7922	ppb	13:25:28

2	P 214.914†	163.3	-27.2	-37.227 ug/L	-37.227 ppb	13:25:28
2	Pb 220.353†	-734.6	-806.2	13.514 ug/L	13.514 ppb	13:25:28
2	S 181.975 Axial†	71.3	40.4	-40.277 ug/L	-40.277 ppb	13:25:28
2	Sb 206.836†	66.0	44.6	2.2667 ug/L	2.2667 ppb	13:25:28
2	Se 196.026†	-790.5	-902.4	10.571 ug/L	10.571 ppb	13:25:28
2	Si 251.611†	513.5	146.3	4.8566 ug/L	4.8566 ppb	13:25:28
2	Sn 189.927†	-345.0	-409.5	11.765 ug/L	11.765 ppb	13:25:28
2	Ti 334.940†	-13222.6	-14296.4	1.9126 ug/L	1.9126 ppb	13:25:07
2	Tl 190.801†	-73.8	-53.2	-16.283 ug/L	-16.283 ppb	13:25:28
2	U 409.014†	-548.8	1215.1	14.578 ug/L	14.578 ppb	13:25:07
2	V 292.402†	1292.1	2887.2	-1.3472 ug/L	-1.3472 ppb	13:25:28
2	Zn 213.857†	2899.3	2802.7	8.2535 ug/L	8.2535 ppb	13:25:28
2	SiO2†	485.3	114.7	8.2324 ug/L	8.2324 ppb	13:26:03
3	Sc Radial	4556.3	4556.3	89.0 %		13:24:35
3	Y RADIAL	4845.5	4845.5	88.01 %		13:24:35
3	Al 396.153Radial†	574684.7	645901.0	516570 ug/L	516570 ppb	13:24:30
3	Ca 317.933Radial†	263299.9	295906.7	477670 ug/L	477670 ppb	13:24:30
3	Fe 238.204 Radial†	19544.2	21954.3	186670 ug/L	186670 ppb	13:24:35
3	K 766.490 Radial†	2223.6	-12.4	-162.04 ug/L	-162.04 ppb	13:24:35
3	Mg 279.077 IEC†	13090.4	14709.4	488260 ug/L	488260 ppb	13:24:35
3	Na 589.592 Radial†	-1000.1	184.9	52.998 ug/L	52.998 ppb	13:24:35
3	Sr 421.552†	533.4	589.7	0.1984 ug/L	0.1984 ppb	13:24:35
3	Sc 361.383	732421.7	732421.7	85.357 %		13:25:33
3	Y 371.029	603682.2	603682.2	82.962 %		13:25:33
3	Ag 328.068†	-9954.9	-12019.7	-1.1058 ug/L	-1.1058 ppb	13:25:33
3	As 188.979†	-92.7	-84.6	7.3885 ug/L	7.3885 ppb	13:25:53
3	B 249.677†	464.1	1158.8	-4.3089 ug/L	-4.3089 ppb	13:25:33
3	Ba 233.527†	-457.7	-527.6	1.6354 ug/L	1.6354 ppb	13:25:53
3	Be 313.107†	-4441.3	-728.6	-0.3266 ug/L	-0.3266 ppb	13:25:33
3	Cd 226.502†	1315.0	1742.3	-0.1065 ug/L	-0.1065 ppb	13:25:53
3	Co 228.616†	-15.9	58.6	-1.5033 ug/L	-1.5033 ppb	13:25:53
3	Cr 267.716†	-75.5	-167.4	1.7832 ug/L	1.7832 ppb	13:25:53
3	Cu 324.752†	4010.8	-1703.6	4.7776 ug/L	4.7776 ppb	13:25:33
3	Mn 257.610†	2194.4	2141.0	0.8135 ug/L	0.8135 ppb	13:25:33
3	Mo 202.031†	-208.3	-265.7	1.6370 ug/L	1.6370 ppb	13:25:53
3	Ni 231.604†	186.8	151.8	3.7565 ug/L	3.7565 ppb	13:25:53
3	P 214.914†	171.5	-19.4	-32.722 ug/L	-32.722 ppb	13:25:53
3	Pb 220.353†	-737.7	-802.1	14.324 ug/L	14.324 ppb	13:25:53
3	S 181.975 Axial†	82.3	52.5	-23.694 ug/L	-23.694 ppb	13:25:53
3	Sb 206.836†	65.5	43.3	1.6863 ug/L	1.6863 ppb	13:25:53
3	Se 196.026†	-826.6	-936.3	-8.5818 ug/L	-8.5818 ppb	13:25:53
3	Si 251.611†	531.4	161.9	5.3548 ug/L	5.3548 ppb	13:25:53
3	Sn 189.927†	-380.4	-447.4	5.4380 ug/L	5.4380 ppb	13:25:53
3	Ti 334.940†	-13186.1	-14114.1	2.3783 ug/L	2.3783 ppb	13:25:33
3	Tl 190.801†	-86.9	-67.7	-20.655 ug/L	-20.655 ppb	13:25:53
3	U 409.014†	-487.0	1293.3	16.797 ug/L	16.797 ppb	13:25:33
3	V 292.402†	1338.7	2928.1	-1.1804 ug/L	-1.1804 ppb	13:25:53
3	Zn 213.857†	2895.0	2767.0	7.8493 ug/L	7.8493 ppb	13:25:53
3	SiO2†	561.9	199.3	13.947 ug/L	13.947 ppb	13:26:08

Mean Data: ICSEA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	727958.0	84.837 %	0.4509			0.53%
Sc Radial	4635.3	90.5 %	3.09			3.41%
Y 371.029	599415.6	82.375 %	0.5335			0.65%
Y RADIAL	4937.9	89.69 %	3.128			3.49%
Ag 328.068†	-11958.6	-1.9180 ug/L	1.67700	-1.9180 ppb	1.67700	87.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	633283.9	506480 ug/L	16188.9	506480 ppb	16188.9	3.20%
QC value within limits for Al 396.153Radial Recovery = 101.30%						
As 188.979†	-83.9	6.8132 ug/L	5.11967	6.8132 ppb	5.11967	75.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1190.1	-2.9941 ug/L	2.48497	-2.9941 ppb	2.48497	83.00%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-501.2	1.7254 ug/L	0.09545	1.7254 ppb	0.09545	5.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-725.1	-0.3258 ug/L	0.00216	-0.3258 ppb	0.00216	0.66%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	290209.2	468470 ug/L	14637.6	468470 ppb	14637.6	3.12%

QC value within limits for Ca 317.933 Radial Recovery = 93.69%

Cd 226.502†	1709.8	-0.0751 ug/L	0.51910	-0.0751 ppb	0.51910	690.96%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	57.8	-1.4660 ug/L	0.30261	-1.4660 ppb	0.30261	20.64%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-192.1	1.4373 ug/L	0.31258	1.4373 ppb	0.31258	21.75%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1632.3	4.7926 ug/L	0.22368	4.7926 ppb	0.22368	4.67%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	21511.2	182910 ug/L	5911.6	182910 ppb	5911.6	3.23%
QC value within limits for Fe 238.204 Radial Recovery = 91.45%						
K 766.490 Radial†	32.1	-150.86 ug/L	15.165	-150.86 ppb	15.165	10.05%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	14417.6	478580 ug/L	16449.3	478580 ppb	16449.3	3.44%
QC value within limits for Mg 279.077 IEC Recovery = 95.72%						
Mn 257.610†	2150.6	0.8480 ug/L	0.14657	0.8480 ppb	0.14657	17.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-265.7	1.2352 ug/L	0.91677	1.2352 ppb	0.91677	74.22%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	164.1	47.026 ug/L	11.9018	47.026 ppb	11.9018	25.31%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	149.9	3.7077 ug/L	0.11676	3.7077 ppb	0.11676	3.15%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-19.8	-32.451 ug/L	4.9171	-32.451 ppb	4.9171	15.15%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-809.7	11.233 ug/L	4.6703	11.233 ppb	4.6703	41.58%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	51.3	-23.511 ug/L	16.8587	-23.511 ppb	16.8587	71.71%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	38.8	0.4204 ug/L	2.71073	0.4204 ppb	2.71073	644.73%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-918.3	-8.9269 ug/L	19.67264	-8.9269 ppb	19.67264	220.38%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	160.8	5.3186 ug/L	0.44505	5.3186 ppb	0.44505	8.37%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-426.0	7.5479 ug/L	3.65171	7.5479 ppb	3.65171	48.38%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	598.2	0.3212 ug/L	0.10905	0.3212 ppb	0.10905	33.95%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-14259.0	1.6899 ug/L	0.82264	1.6899 ppb	0.82264	48.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-63.1	-19.262 ug/L	2.5816	-19.262 ppb	2.5816	13.40%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1171.7	13.646 ug/L	3.7058	13.646 ppb	3.7058	27.16%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2915.8	-0.8460 ug/L	0.72849	-0.8460 ppb	0.72849	86.11%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2779.4	8.3312 ug/L	0.52500	8.3312 ppb	0.52500	6.30%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	169.9	11.965 ug/L	3.2345	11.965 ppb	3.2345	27.03%
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: 1/12/2010 13:28:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4483.1	4483.1	87.5 %		13:30:18
1	Y RADIAL	4796.8	4796.8	87.13 %		13:30:18
1	Al 396.153Radial†	588773.8	672553.3	537870 ug/L	537870 ppb	13:30:13
1	Ca 317.933Radial†	267848.1	305939.5	493870 ug/L	493870 ppb	13:30:13
1	Fe 238.204 Radial†	19620.8	22400.9	190480 ug/L	190480 ppb	13:30:18
1	K 766.490 Radial†	29237.9	30886.4	5456.5 ug/L	5456.5 ppb	13:30:13
1	Mg 279.077 IEC†	13218.4	15096.1	501100 ug/L	501100 ppb	13:30:18
1	Na 589.592 Radial†	15704.0	19247.3	5517.2 ug/L	5517.2 ppb	13:30:18
1	Sr 421.552†	70989.9	81080.9	513.98 ug/L	513.98 ppb	13:30:13
1	Sc 361.383	728554.1	728554.1	84.906 %		13:30:46
1	Y 371.029	599175.1	599175.1	82.342 %		13:30:46
1	Ag 328.068†	41297.9	48282.5	278.34 ug/L	278.34 ppb	13:30:46
1	As 188.979†	961.9	1156.8	542.32 ug/L	542.32 ppb	13:31:06
1	B 249.677†	20152.8	24350.5	514.31 ug/L	514.31 ppb	13:30:46
1	Ba 233.527†	54514.4	64214.1	504.50 ug/L	504.50 ppb	13:30:46
1	Be 313.107†	554513.1	657565.3	249.58 ug/L	249.58 ppb	13:30:46
1	Cd 226.502†	38105.3	45081.0	476.64 ug/L	476.64 ppb	13:30:46
1	Co 228.616†	19201.7	22692.4	457.82 ug/L	457.82 ppb	13:31:06
1	Cr 267.716†	37235.8	43776.3	489.93 ug/L	489.93 ppb	13:30:46
1	Cu 324.752†	163863.6	186591.7	566.41 ug/L	566.41 ppb	13:30:46
1	Mn 257.610†	379976.1	447095.8	488.63 ug/L	488.63 ppb	13:30:46
1	Mo 202.031†	5939.3	6973.5	507.24 ug/L	507.24 ppb	13:31:06
1	Ni 231.604†	15803.9	18546.3	458.68 ug/L	458.68 ppb	13:31:06
1	P 214.914†	3851.6	4316.0	2443.3 ug/L	2443.3 ppb	13:31:06
1	Pb 220.353†	2580.7	3101.7	492.55 ug/L	492.55 ppb	13:31:06
1	S 181.975 Axial†	1760.3	2029.3	2723.3 ug/L	2723.3 ppb	13:31:06
1	Sb 206.836†	1398.3	1613.4	551.65 ug/L	551.65 ppb	13:31:06
1	Se 196.026†	2668.6	3175.0	2594.5 ug/L	2594.5 ppb	13:31:06
1	Si 251.611†	144426.4	169640.9	5364.2 ug/L	5364.2 ppb	13:30:46
1	Sn 189.927†	2102.0	2474.1	517.13 ug/L	517.13 ppb	13:31:06
1	Ti 334.940†	263115.4	311224.4	524.08 ug/L	524.08 ppb	13:30:46
1	Tl 190.801†	1244.6	1500.0	456.30 ug/L	456.30 ppb	13:31:06
1	U 409.014†	14047.4	18408.5	519.12 ug/L	519.12 ppb	13:30:46
1	V 292.402†	65105.1	78038.8	515.35 ug/L	515.35 ppb	13:30:46
1	Zn 213.857†	48504.3	56502.4	508.25 ug/L	508.25 ppb	13:30:46
1	SiO2†	145640.3	171072.3	11525 ug/L	11525 ppb	13:32:03
2	Sc Radial	4519.8	4519.8	88.3 %		13:30:28
2	Y RADIAL	4815.9	4815.9	87.47 %		13:30:28
2	Al 396.153Radial†	589213.6	667579.2	533890 ug/L	533890 ppb	13:30:23
2	Ca 317.933Radial†	268892.3	304633.1	491760 ug/L	491760 ppb	13:30:23
2	Fe 238.204 Radial†	19571.4	22162.6	188460 ug/L	188460 ppb	13:30:28
2	K 766.490 Radial†	29239.5	30616.6	5408.1 ug/L	5408.1 ppb	13:30:23
2	Mg 279.077 IEC†	13185.6	14936.1	495790 ug/L	495790 ppb	13:30:28
2	Na 589.592 Radial†	15810.6	19222.2	5510.0 ug/L	5510.0 ppb	13:30:28
2	Sr 421.552†	70914.1	80335.2	509.23 ug/L	509.23 ppb	13:30:23
2	Sc 361.383	733184.3	733184.3	85.446 %		13:31:12
2	Y 371.029	601639.4	601639.4	82.681 %		13:31:12
2	Ag 328.068†	41438.9	48140.3	277.06 ug/L	277.06 ppb	13:31:12
2	As 188.979†	949.7	1135.4	532.71 ug/L	532.71 ppb	13:31:32
2	B 249.677†	20470.6	24572.5	519.63 ug/L	519.63 ppb	13:31:12
2	Ba 233.527†	55046.5	64431.4	506.13 ug/L	506.13 ppb	13:31:12
2	Be 313.107†	558335.9	657914.9	249.71 ug/L	249.71 ppb	13:31:12
2	Cd 226.502†	38347.7	45081.4	476.85 ug/L	476.85 ppb	13:31:12
2	Co 228.616†	19231.3	22584.3	455.65 ug/L	455.65 ppb	13:31:32
2	Cr 267.716†	37544.6	43860.8	490.83 ug/L	490.83 ppb	13:31:12
2	Cu 324.752†	165234.9	186977.8	567.45 ug/L	567.45 ppb	13:31:12
2	Mn 257.610†	383214.3	448059.5	489.71 ug/L	489.71 ppb	13:31:12
2	Mo 202.031†	5957.7	6950.9	505.49 ug/L	505.49 ppb	13:31:32
2	Ni 231.604†	15844.2	18476.0	456.95 ug/L	456.95 ppb	13:31:32

2	P 214.914†	3892.3	4335.0	2455.1 ug/L	2455.1 ppb	13:31:32
2	Pb 220.353†	2577.9	3079.2	489.04 ug/L	489.04 ppb	13:31:32
2	S 181.975 Axial†	1767.4	2024.6	2717.5 ug/L	2717.5 ppb	13:31:32
2	Sb 206.836†	1403.1	1608.7	550.05 ug/L	550.05 ppb	13:31:32
2	Se 196.026†	2681.3	3170.1	2585.2 ug/L	2585.2 ppb	13:31:32
2	Si 251.611†	145779.9	170150.8	5380.4 ug/L	5380.4 ppb	13:31:12
2	Sn 189.927†	2100.2	2456.3	513.65 ug/L	513.65 ppb	13:31:32
2	Ti 334.940†	265327.2	311856.0	525.24 ug/L	525.24 ppb	13:31:12
2	Tl 190.801†	1266.0	1515.7	461.07 ug/L	461.07 ppb	13:31:32
2	U 409.014†	14171.0	18448.7	520.53 ug/L	520.53 ppb	13:31:12
2	V 292.402†	65611.5	78147.2	516.29 ug/L	516.29 ppb	13:31:12
2	Zn 213.857†	48899.9	56604.7	509.42 ug/L	509.42 ppb	13:31:12
2	SiO2†	145779.6	170152.0	11463 ug/L	11463 ppb	13:32:09
3	Sc Radial	4490.9	4490.9	87.7 %		13:30:38
3	Y RADIAL	4789.9	4789.9	87.00 %		13:30:38
3	Al 396.153Radial†	586923.1	669266.9	535240 ug/L	535240 ppb	13:30:33
3	Ca 317.933Radial†	267727.2	305266.7	492780 ug/L	492780 ppb	13:30:33
3	Fe 238.204 Radial†	19497.5	22221.1	188960 ug/L	188960 ppb	13:30:38
3	K 766.490 Radial†	29149.7	30727.5	5427.9 ug/L	5427.9 ppb	13:30:33
3	Mg 279.077 IEC†	13142.9	14983.6	497370 ug/L	497370 ppb	13:30:38
3	Na 589.592 Radial†	15586.7	19082.2	5469.9 ug/L	5469.9 ppb	13:30:38
3	Sr 421.552†	70636.8	80536.5	510.51 ug/L	510.51 ppb	13:30:33
3	Sc 361.383	734264.3	734264.3	85.571 %		13:31:38
3	Y 371.029	603129.9	603129.9	82.886 %		13:31:38
3	Ag 328.068†	41696.1	48369.6	278.27 ug/L	278.27 ppb	13:31:38
3	As 188.979†	955.2	1140.2	534.87 ug/L	534.87 ppb	13:31:58
3	B 249.677†	20625.3	24718.1	522.82 ug/L	522.82 ppb	13:31:38
3	Ba 233.527†	55192.3	64507.1	506.73 ug/L	506.73 ppb	13:31:38
3	Be 313.107†	560643.0	659649.8	250.37 ug/L	250.37 ppb	13:31:38
3	Cd 226.502†	38435.1	45117.4	477.19 ug/L	477.19 ppb	13:31:38
3	Co 228.616†	19090.4	22386.5	451.61 ug/L	451.61 ppb	13:31:58
3	Cr 267.716†	37631.0	43897.2	491.24 ug/L	491.24 ppb	13:31:38
3	Cu 324.752†	166044.4	187639.4	569.46 ug/L	569.46 ppb	13:31:38
3	Mn 257.610†	384387.6	448770.9	490.47 ug/L	490.47 ppb	13:31:38
3	Mo 202.031†	5901.3	6874.7	500.22 ug/L	500.22 ppb	13:31:58
3	Ni 231.604†	15681.5	18258.6	451.57 ug/L	451.57 ppb	13:31:58
3	P 214.914†	3816.0	4239.1	2396.9 ug/L	2396.9 ppb	13:31:58
3	Pb 220.353†	2552.5	3045.0	485.18 ug/L	485.18 ppb	13:31:58
3	S 181.975 Axial†	1730.8	1978.7	2653.4 ug/L	2653.4 ppb	13:31:58
3	Sb 206.836†	1402.5	1605.6	548.81 ug/L	548.81 ppb	13:31:58
3	Se 196.026†	2658.5	3138.9	2567.0 ug/L	2567.0 ppb	13:31:58
3	Si 251.611†	146215.5	170408.8	5388.6 ug/L	5388.6 ppb	13:31:38
3	Sn 189.927†	2091.6	2442.6	511.43 ug/L	511.43 ppb	13:31:58
3	Ti 334.940†	266337.0	312579.2	526.41 ug/L	526.41 ppb	13:31:38
3	Tl 190.801†	1227.9	1469.0	447.00 ug/L	447.00 ppb	13:31:58
3	U 409.014†	14160.0	18411.5	519.38 ug/L	519.38 ppb	13:31:38
3	V 292.402†	65764.9	78213.5	516.60 ug/L	516.60 ppb	13:31:38
3	Zn 213.857†	49091.7	56744.5	510.71 ug/L	510.71 ppb	13:31:38
3	SiO2†	146206.7	170400.2	11480 ug/L	11480 ppb	13:32:14

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	732000.9	85.308 %	0.3535			0.41%
Sc Radial	4497.9	87.8 %	0.38			0.43%
Y 371.029	601314.8	82.636 %	0.2745			0.33%
Y RADIAL	4800.9	87.20 %	0.244			0.28%
Ag 328.068†	48264.1	277.89 ug/L	0.717	277.89 ppb	0.717	0.26%
QC value within limits for Ag 328.068 Recovery = 111.16%						
Al 396.153Radial†	669799.8	535660 ug/L	2022.9	535660 ppb	2022.9	0.38%
QC value within limits for Al 396.153Radial Recovery = 107.13%						
As 188.979†	1144.1	536.63 ug/L	5.044	536.63 ppb	5.044	0.94%
QC value within limits for As 188.979 Recovery = 107.33%						
B 249.677†	24547.1	518.92 ug/L	4.302	518.92 ppb	4.302	0.83%
QC value within limits for B 249.677 Recovery = 103.78%						
Ba 233.527†	64384.2	505.79 ug/L	1.151	505.79 ppb	1.151	0.23%
QC value within limits for Ba 233.527 Recovery = 101.16%						
Be 313.107†	658376.7	249.88 ug/L	0.424	249.88 ppb	0.424	0.17%
QC value within limits for Be 313.107 Recovery = 99.95%						
Ca 317.933Radial†	305279.8	492800 ug/L	1054.6	492800 ppb	1054.6	0.21%

QC value within limits for Ca 317.933 Radial Recovery = 98.56%							
Cd	226.502†	45093.2	476.89 ug/L	0.279	476.89 ppb	0.279	0.06%
QC value within limits for Cd 226.502 Recovery = 95.38%							
Co	228.616†	22554.4	455.03 ug/L	3.149	455.03 ppb	3.149	0.69%
QC value within limits for Co 228.616 Recovery = 91.01%							
Cr	267.716†	43844.8	490.67 ug/L	0.671	490.67 ppb	0.671	0.14%
QC value within limits for Cr 267.716 Recovery = 98.13%							
Cu	324.752†	187069.6	567.77 ug/L	1.547	567.77 ppb	1.547	0.27%
QC value within limits for Cu 324.752 Recovery = 113.55%							
Fe	238.204 Radial†	22261.6	189300 ug/L	1056.1	189300 ppb	1056.1	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 94.65%							
K	766.490 Radial†	30743.5	5430.8 ug/L	24.35	5430.8 ppb	24.35	0.45%
QC value within limits for K 766.490 Radial Recovery = 108.62%							
Mg	279.077 IEC†	15005.3	498090 ug/L	2727.0	498090 ppb	2727.0	0.55%
QC value within limits for Mg 279.077 IEC Recovery = 99.62%							
Mn	257.610†	447975.4	489.60 ug/L	0.924	489.60 ppb	0.924	0.19%
QC value within limits for Mn 257.610 Recovery = 97.92%							
Mo	202.031†	6933.0	504.32 ug/L	3.653	504.32 ppb	3.653	0.72%
QC value within limits for Mo 202.031 Recovery = 100.86%							
Na	589.592 Radial†	19183.9	5499.1 ug/L	25.50	5499.1 ppb	25.50	0.46%
QC value within limits for Na 589.592 Radial Recovery = 109.98%							
Ni	231.604†	18427.0	455.73 ug/L	3.711	455.73 ppb	3.711	0.81%
QC value within limits for Ni 231.604 Recovery = 91.15%							
P	214.914†	4296.7	2431.7 ug/L	30.76	2431.7 ppb	30.76	1.27%
QC value within limits for P 214.914 Recovery = 97.27%							
Pb	220.353†	3075.3	488.92 ug/L	3.684	488.92 ppb	3.684	0.75%
QC value within limits for Pb 220.353 Recovery = 97.78%							
S	181.975 Axial†	2010.9	2698.1 ug/L	38.79	2698.1 ppb	38.79	1.44%
QC value within limits for S 181.975 Axial Recovery = 107.92%							
Sb	206.836†	1609.3	550.17 ug/L	1.425	550.17 ppb	1.425	0.26%
QC value within limits for Sb 206.836 Recovery = 110.03%							
Se	196.026†	3161.3	2582.2 ug/L	13.96	2582.2 ppb	13.96	0.54%
QC value within limits for Se 196.026 Recovery = 103.29%							
Si	251.611†	170066.8	5377.7 ug/L	12.41	5377.7 ppb	12.41	0.23%
QC value within limits for Si 251.611 Recovery = 107.55%							
Sn	189.927†	2457.7	514.07 ug/L	2.871	514.07 ppb	2.871	0.56%
QC value within limits for Sn 189.927 Recovery = 102.81%							
Sr	421.552†	80650.9	511.24 ug/L	2.456	511.24 ppb	2.456	0.48%
QC value within limits for Sr 421.552 Recovery = 102.25%							
Ti	334.940†	311886.5	525.24 ug/L	1.163	525.24 ppb	1.163	0.22%
QC value within limits for Ti 334.940 Recovery = 105.05%							
Tl	190.801†	1494.9	454.79 ug/L	7.156	454.79 ppb	7.156	1.57%
QC value within limits for Tl 190.801 Recovery = 90.96%							
U	409.014†	18422.9	519.68 ug/L	0.751	519.68 ppb	0.751	0.14%
QC value within limits for U 409.014 Recovery = 103.94%							
V	292.402†	78133.2	516.08 ug/L	0.653	516.08 ppb	0.653	0.13%
QC value within limits for V 292.402 Recovery = 103.22%							
Zn	213.857†	56617.2	509.46 ug/L	1.232	509.46 ppb	1.232	0.24%
QC value within limits for Zn 213.857 Recovery = 101.89%							
SiO2†		170541.5	11490 ug/L	32.1	11490 ppb	32.1	0.28%
QC value within limits for SiO2 Recovery = 107.43%							
All analyte(s) passed QC.							

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 1/12/2010 13:34:24

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	4464.7	4464.7	87.2 %		13:36:22
1	Y RADIAL	4798.4	4798.4	87.16 %		13:36:22
1	Al 396.153Radial†	556865.1	638718.0	510830 ug/L	510830 ppb	13:36:17
1	Ca 317.933Radial†	254440.1	291817.9	471070 ug/L	471070 ppb	13:36:17
1	Fe 238.204 Radial†	45321.3	51971.0	441900 ug/L	441900 ppb	13:36:22
1	K 766.490 Radial†	2855.7	763.9	-211.40 ug/L	-211.40 ppb	13:36:17
1	Mg 279.077 IEC†	12918.2	14813.8	491460 ug/L	491460 ppb	13:36:22
1	Na 589.592 Radial†	1503666.2	1725980.3	494750 ug/L	494750 ppb	13:36:17
1	Sr 421.552†	783.4	888.8	2.1573 ug/L	2.1573 ppb	13:36:22
1	Sc 361.383	711484.0	711484.0	82.917 %		13:36:50
1	Y 371.029	586561.8	586561.8	80.609 %		13:36:50
1	Ag 328.068†	-22744.9	-27788.2	-2.8534 ug/L	-2.8534 ppb	13:36:50
1	As 188.979†	-190.9	-206.3	15.228 ug/L	15.228 ppb	13:37:10
1	B 249.677†	1770.1	2749.9	-10.056 ug/L	-10.056 ppb	13:36:50
1	Ba 233.527†	-1228.4	-1472.9	2.1142 ug/L	2.1142 ppb	13:37:10
1	Be 313.107†	-11159.1	-8983.6	-3.4478 ug/L	-3.4478 ppb	13:36:50
1	Cd 226.502†	3288.9	4168.1	3.1407 ug/L	3.1407 ppb	13:37:10
1	Co 228.616†	178.2	292.1	-0.5092 ug/L	-0.5092 ppb	13:37:10
1	Cr 267.716†	-46.2	-134.7	1.1808 ug/L	1.1808 ppb	13:37:10
1	Cu 324.752†	1406.3	-4706.3	1.0193 ug/L	1.0193 ppb	13:36:50
1	Mn 257.610†	-17768.8	-21859.6	-0.4414 ug/L	-0.4414 ppb	13:36:50
1	Mo 202.031†	-483.9	-605.2	-2.3204 ug/L	-2.3204 ppb	13:37:10
1	Ni 231.604†	244.3	227.7	5.6305 ug/L	5.6305 ppb	13:37:10
1	P 214.914†	530.6	419.6	25.974 ug/L	25.974 ppb	13:37:10
1	Pb 220.353†	-535.1	-583.2	14.911 ug/L	14.911 ppb	13:37:10
1	S 181.975 Axial†	108.6	87.1	25.489 ug/L	25.489 ppb	13:37:10
1	Sb 206.836†	55.6	33.6	1.3220 ug/L	1.3220 ppb	13:37:10
1	Se 196.026†	-1843.4	-2191.2	-41.309 ug/L	-41.309 ppb	13:37:10
1	Si 251.611†	-324.8	-852.4	-26.465 ug/L	-26.465 ppb	13:37:10
1	Sn 189.927†	-371.7	-450.0	8.1703 ug/L	8.1703 ppb	13:37:10
1	Ti 334.940†	-13324.4	-14735.5	-6.3885 ug/L	-6.3885 ppb	13:36:50
1	Tl 190.801†	-103.1	-90.2	-27.648 ug/L	-27.648 ppb	13:37:10
1	U 409.014†	422307.1	511179.2	14998 ug/L	14998 ppb	13:36:50
1	V 292.402†	3420.1	5484.4	3.1854 ug/L	3.1854 ppb	13:37:10
1	Zn 213.857†	5572.3	6095.7	14.338 ug/L	14.338 ppb	13:37:10
1	SiO2†	-237.5	-745.4	-49.127 ug/L	-49.127 ppb	13:38:07
2	Sc Radial	4409.0	4409.0	86.1 %		13:36:32
2	Y RADIAL	4715.4	4715.4	85.65 %		13:36:32
2	Al 396.153Radial†	566394.5	657857.3	526140 ug/L	526140 ppb	13:36:27
2	Ca 317.933Radial†	258654.0	300400.0	484920 ug/L	484920 ppb	13:36:27
2	Fe 238.204 Radial†	44605.9	51796.9	440420 ug/L	440420 ppb	13:36:32
2	K 766.490 Radial†	2767.4	702.7	-232.49 ug/L	-232.49 ppb	13:36:27
2	Mg 279.077 IEC†	12686.9	14732.5	488760 ug/L	488760 ppb	13:36:32
2	Na 589.592 Radial†	1525827.1	1773513.9	508380 ug/L	508380 ppb	13:36:27
2	Sr 421.552†	730.7	839.0	1.7355 ug/L	1.7355 ppb	13:36:32
2	Sc 361.383	719543.3	719543.3	83.856 %		13:37:16
2	Y 371.029	593151.9	593151.9	81.515 %		13:37:16
2	Ag 328.068†	-23042.1	-27835.2	-3.7792 ug/L	-3.7792 ppb	13:37:16
2	As 188.979†	-183.0	-194.4	19.979 ug/L	19.979 ppb	13:37:36
2	B 249.677†	1835.7	2804.2	-8.5991 ug/L	-8.5991 ppb	13:37:16
2	Ba 233.527†	-1336.1	-1584.8	1.2023 ug/L	1.2023 ppb	13:37:36
2	Be 313.107†	-11191.8	-8871.9	-3.4040 ug/L	-3.4040 ppb	13:37:16
2	Cd 226.502†	3260.0	4089.3	2.4363 ug/L	2.4363 ppb	13:37:36
2	Co 228.616†	215.3	334.0	0.3626 ug/L	0.3626 ppb	13:37:36
2	Cr 267.716†	-117.7	-219.3	0.1922 ug/L	0.1922 ppb	13:37:36
2	Cu 324.752†	1283.4	-4871.9	0.4186 ug/L	0.4186 ppb	13:37:16
2	Mn 257.610†	-18335.1	-22294.9	-0.9546 ug/L	-0.9546 ppb	13:37:16
2	Mo 202.031†	-484.1	-599.0	-1.8333 ug/L	-1.8333 ppb	13:37:36
2	Ni 231.604†	249.5	230.5	5.6999 ug/L	5.6999 ppb	13:37:36

2	P 214.914†	555.8	442.5	44.828 ug/L	44.828 ppb	13:37:36
2	Pb 220.353†	-510.9	-547.1	23.241 ug/L	23.241 ppb	13:37:36
2	S 181.975 Axial†	91.5	65.3	-7.7785 ug/L	-7.7785 ppb	13:37:36
2	Sb 206.836†	58.2	36.0	1.6658 ug/L	1.6658 ppb	13:37:36
2	Se 196.026†	-1884.9	-2215.7	-60.376 ug/L	-60.376 ppb	13:37:36
2	Si 251.611†	-341.0	-867.3	-26.942 ug/L	-26.942 ppb	13:37:36
2	Sn 189.927†	-388.7	-465.2	7.8128 ug/L	7.8128 ppb	13:37:36
2	Ti 334.940†	-13119.9	-14311.7	-3.6294 ug/L	-3.6294 ppb	13:37:16
2	Tl 190.801†	-95.2	-79.5	-24.405 ug/L	-24.405 ppb	13:37:36
2	U 409.014†	428548.5	512917.6	15049 ug/L	15049 ppb	13:37:16
2	V 292.402†	3449.2	5472.9	3.3994 ug/L	3.3994 ppb	13:37:36
2	Zn 213.857†	5608.9	6064.0	14.185 ug/L	14.185 ppb	13:37:36
2	SiO2†	-365.3	-894.6	-59.204 ug/L	-59.204 ppb	13:38:12
3	Sc Radial	4450.5	4450.5	86.9 %		13:36:43
3	Y RADIAL	4751.9	4751.9	86.31 %		13:36:43
3	Al 396.153Radial†	571201.7	657256.8	525660 ug/L	525660 ppb	13:36:38
3	Ca 317.933Radial†	259752.4	298863.7	482440 ug/L	482440 ppb	13:36:38
3	Fe 238.204 Radial†	44822.5	51563.2	438430 ug/L	438430 ppb	13:36:43
3	K 766.490 Radial†	2810.0	721.7	-227.83 ug/L	-227.83 ppb	13:36:38
3	Mg 279.077 IEC†	12795.3	14719.9	488350 ug/L	488350 ppb	13:36:43
3	Na 589.592 Radial†	1537296.0	1770191.5	507430 ug/L	507430 ppb	13:36:38
3	Sr 421.552†	748.6	851.6	1.8346 ug/L	1.8346 ppb	13:36:43
3	Sc 361.383	715943.4	715943.4	83.436 %		13:37:41
3	Y 371.029	590304.5	590304.5	81.123 %		13:37:41
3	Ag 328.068†	-23205.4	-28169.2	-5.9238 ug/L	-5.9238 ppb	13:37:41
3	As 188.979†	-195.0	-209.8	12.899 ug/L	12.899 ppb	13:38:02
3	B 249.677†	1931.3	2929.8	-5.4572 ug/L	-5.4572 ppb	13:37:41
3	Ba 233.527†	-1316.3	-1569.1	1.2654 ug/L	1.2654 ppb	13:38:02
3	Be 313.107†	-11292.7	-9059.9	-3.4760 ug/L	-3.4760 ppb	13:37:41
3	Cd 226.502†	3298.2	4154.6	3.3612 ug/L	3.3612 ppb	13:38:02
3	Co 228.616†	206.7	325.0	0.2132 ug/L	0.2132 ppb	13:38:02
3	Cr 267.716†	-56.0	-146.1	0.9636 ug/L	0.9636 ppb	13:38:02
3	Cu 324.752†	1308.1	-4834.7	0.4197 ug/L	0.4197 ppb	13:37:41
3	Mn 257.610†	-18005.6	-22009.8	-0.8210 ug/L	-0.8210 ppb	13:37:41
3	Mo 202.031†	-460.9	-574.0	-0.2765 ug/L	-0.2765 ppb	13:38:02
3	Ni 231.604†	242.8	223.9	5.5378 ug/L	5.5378 ppb	13:38:02
3	P 214.914†	563.3	454.9	53.677 ug/L	53.677 ppb	13:38:02
3	Pb 220.353†	-503.3	-541.1	24.009 ug/L	24.009 ppb	13:38:02
3	S 181.975 Axial†	114.3	93.1	31.104 ug/L	31.104 ppb	13:38:02
3	Sb 206.836†	46.6	22.4	-2.9306 ug/L	-2.9306 ppb	13:38:02
3	Se 196.026†	-1872.1	-2211.8	-63.781 ug/L	-63.781 ppb	13:38:02
3	Si 251.611†	-302.7	-823.5	-25.576 ug/L	-25.576 ppb	13:38:02
3	Sn 189.927†	-390.8	-470.0	6.5217 ug/L	6.5217 ppb	13:38:02
3	Ti 334.940†	-13264.5	-14563.6	-4.3396 ug/L	-4.3396 ppb	13:37:41
3	Tl 190.801†	-122.8	-113.1	-34.545 ug/L	-34.545 ppb	13:38:02
3	U 409.014†	426654.0	513216.7	15058 ug/L	15058 ppb	13:37:41
3	V 292.402†	3536.6	5598.4	4.6073 ug/L	4.6073 ppb	13:38:02
3	Zn 213.857†	5622.9	6114.5	14.853 ug/L	14.853 ppb	13:38:02
3	SiO2†	-318.5	-840.7	-55.615 ug/L	-55.615 ppb	13:38:17

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	715656.9	83.403 %		0.4705			0.56%
Sc Radial	4441.4	86.7 %		0.57			0.65%
Y 371.029	590006.1	81.082 %		0.4542			0.56%
Y RADIAL	4755.2	86.37 %		0.756			0.88%
Ag 328.068†	-27930.9	-4.1855 ug/L		1.57501	-4.1855 ppb	1.57501	37.63%
Al 396.153Radial†	651277.4	520880 ug/L		8702.2	520880 ppb	8702.2	1.67%
QC value within limits for Al 396.153Radial Recovery = 104.18%							
As 188.979†	-203.5	16.036 ug/L		3.6084	16.036 ppb	3.6084	22.50%
B 249.677†	2828.0	-8.0375 ug/L		2.35037	-8.0375 ppb	2.35037	29.24%
Ba 233.527†	-1542.2	1.5273 ug/L		0.50926	1.5273 ppb	0.50926	33.34%
Be 313.107†	-8971.8	-3.4426 ug/L		0.03626	-3.4426 ppb	0.03626	1.05%
Ca 317.933Radial†	297027.2	479480 ug/L		7387.4	479480 ppb	7387.4	1.54%
QC value within limits for Ca 317.933Radial Recovery = 95.90%							
Cd 226.502†	4137.3	2.9794 ug/L		0.48309	2.9794 ppb	0.48309	16.21%
Co 228.616†	317.0	0.0222 ug/L		0.46625	0.0222 ppb	0.46625	>999.9%
Cr 267.716†	-166.7	0.7789 ug/L		0.51955	0.7789 ppb	0.51955	66.71%
Cu 324.752†	-4804.3	0.6192 ug/L		0.34648	0.6192 ppb	0.34648	55.95%

Fe 238.204 Radial†	51777.0	440250 ug/L	1739.6	440250 ppb	1739.6	0.40%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.05%						
K 766.490 Radial†	729.5	-223.91 ug/L	11.080	-223.91 ppb	11.080	4.95%
Mg 279.077 IEC†	14755.4	489520 ug/L	1692.1	489520 ppb	1692.1	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 97.90%						
Mn 257.610†	-22054.8	-0.7390 ug/L	0.26623	-0.7390 ppb	0.26623	36.03%
Mo 202.031†	-592.7	-1.4768 ug/L	1.06758	-1.4768 ppb	1.06758	72.29%
Na 589.592 Radial†	1756561.9	503520 ug/L	7606.7	503520 ppb	7606.7	1.51%
QC value within limits for Na 589.592 Radial Recovery = 100.70%						
Ni 231.604†	227.4	5.6227 ug/L	0.08130	5.6227 ppb	0.08130	1.45%
P 214.914†	439.0	41.493 ug/L	14.1492	41.493 ppb	14.1492	34.10%
Pb 220.353†	-557.1	20.721 ug/L	5.0461	20.721 ppb	5.0461	24.35%
S 181.975 Axial†	81.8	16.271 ug/L	21.0162	16.271 ppb	21.0162	129.16%
Sb 206.836†	30.6	0.0191 ug/L	2.56025	0.0191 ppb	2.56025	>999.9%
Se 196.026†	-2206.2	-55.156 ug/L	12.1116	-55.156 ppb	12.1116	21.96%
Si 251.611†	-847.8	-26.328 ug/L	0.6934	-26.328 ppb	0.6934	2.63%
Sn 189.927†	-461.7	7.5016 ug/L	0.86723	7.5016 ppb	0.86723	11.56%
Sr 421.552†	859.8	1.9091 ug/L	0.22055	1.9091 ppb	0.22055	11.55%
Ti 334.940†	-14536.9	-4.7859 ug/L	1.43264	-4.7859 ppb	1.43264	29.93%
Tl 190.801†	-94.3	-28.866 ug/L	5.1786	-28.866 ppb	5.1786	17.94%
U 409.014†	512437.8	15035 ug/L	32.6	15035 ppb	32.6	0.22%
QC value within limits for U 409.014 Recovery = 100.24%						
V 292.402†	5518.6	3.7307 ug/L	0.76667	3.7307 ppb	0.76667	20.55%
Zn 213.857†	6091.4	14.459 ug/L	0.3497	14.459 ppb	0.3497	2.42%
SiO2†	-826.9	-54.649 ug/L	5.1080	-54.649 ppb	5.1080	9.35%
QC Failed. Continue with analysis.						

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 1/12/2010 13:40:26

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	5006.2	5006.2	97.8 %		13:42:24
1	Y RADIAL	5292.0	5292.0	96.12 %		13:42:24
1	Al 396.153Radial†	588.5	608.2	10.130 ug/L	10.130 ppb	13:42:24
1	Ca 317.933Radial†	27.5	8.9	14.403 ug/L	14.403 ppb	13:42:44
1	Fe 238.204 Radial†	-21.1	-33.2	10.434 ug/L	10.434 ppb	13:42:44
1	K 766.490 Radial†	1587709.7	1621579.2	295280 ug/L	295280 ppb	13:42:19
1	Mg 279.077 IEC†	-6.1	-9.3	-205.20 ug/L	-205.20 ppb	13:42:44
1	Na 589.592 Radial†	-76.6	1230.5	352.73 ug/L	352.73 ppb	13:42:24
1	Sr 421.552†	1478874.0	1512751.4	9658.2 ug/L	9658.2 ppb	13:42:19
1	Sc 361.383	833594.2	833594.2	97.147 %		13:44:02
1	Y 371.029	684561.0	684561.0	94.077 %		13:44:02
1	Ag 328.068†	-8495.5	-9102.0	3.5744 ug/L	3.5744 ppb	13:44:07
1	As 188.979†	22899.7	23596.0	10150 ug/L	10150 ppb	13:44:07
1	B 249.677†	218747.3	225785.6	5040.0 ug/L	5040.0 ppb	13:44:02
1	Ba 233.527†	1769898.7	1821877.9	14138 ug/L	14138 ppb	13:44:02
1	Be 313.107†	7464541.6	7688202.3	2927.3 ug/L	2927.3 ppb	13:43:55
1	Cd 226.502†	860248.9	885710.6	9749.6 ug/L	9749.6 ppb	13:44:02
1	Co 228.616†	467767.9	481580.5	9770.1 ug/L	9770.1 ppb	13:44:02
1	Cr 267.716†	2112081.6	2174021.0	24135 ug/L	24135 ppb	13:44:02
1	Cu 324.752†	6548134.3	6734009.0	20088 ug/L	20088 ppb	13:43:55
1	Mn 257.610†	8350987.4	8595772.9	9426.7 ug/L	9426.7 ppb	13:43:55
1	Mo 202.031†	136763.1	140757.4	9821.5 ug/L	9821.5 ppb	13:44:07
1	Ni 231.604†	386673.4	397960.5	9842.4 ug/L	9842.4 ppb	13:44:02
1	P 214.914†	31467.2	32170.9	14628 ug/L	14628 ppb	13:44:07
1	Pb 220.353†	194857.3	200641.2	24292 ug/L	24292 ppb	13:44:07
1	S 181.975 Axial†	36484.1	37511.5	52203 ug/L	52203 ppb	13:44:07
1	Sb 206.836†	30011.9	30859.7	10827 ug/L	10827 ppb	13:44:07
1	Se 196.026†	15639.3	16130.5	10188 ug/L	10188 ppb	13:44:07
1	Si 251.611†	1500256.3	1543848.6	48752 ug/L	48752 ppb	13:44:02
1	Sn 189.927†	58479.8	60195.3	10486 ug/L	10486 ppb	13:44:07
1	Ti 334.940†	6004470.7	6182118.0	9890.5 ug/L	9890.5 ppb	13:43:55
1	Tl 190.801†	31031.1	31976.4	9719.0 ug/L	9719.0 ppb	13:44:07
1	U 409.014†	-610.0	1236.0	-17.559 ug/L	-17.559 ppb	13:44:07
1	V 292.402†	1443166.5	1486902.8	10206 ug/L	10206 ppb	13:44:02
1	Zn 213.857†	1471504.9	1514089.0	14123 ug/L	14123 ppb	13:44:02
1	SiO2†	1521551.2	1565770.5	105340 ug/L	105340 ppb	13:44:54
2	Sc Radial	4972.9	4972.9	97.1 %		13:42:54
2	Y RADIAL	5231.2	5231.2	95.02 %		13:42:54
2	Al 396.153Radial†	568.3	591.4	-10.105 ug/L	-10.105 ppb	13:42:54
2	Ca 317.933Radial†	27.3	8.9	14.308 ug/L	14.308 ppb	13:43:14
2	Fe 238.204 Radial†	-22.6	-34.9	-3.0238 ug/L	-3.0238 ppb	13:43:14
2	K 766.490 Radial†	1583874.0	1628517.4	296550 ug/L	296550 ppb	13:42:49
2	Mg 279.077 IEC†	-5.9	-9.1	-196.57 ug/L	-196.57 ppb	13:43:14
2	Na 589.592 Radial†	-125.8	1179.3	338.06 ug/L	338.06 ppb	13:42:54
2	Sr 421.552†	1474713.4	1518608.6	9695.6 ug/L	9695.6 ppb	13:42:49
2	Sc 361.383	823486.6	823486.6	95.969 %		13:44:21
2	Y 371.029	676051.6	676051.6	92.907 %		13:44:21
2	Ag 328.068†	-8718.4	-9441.6	2.1097 ug/L	2.1097 ppb	13:44:27
2	As 188.979†	23013.1	24003.6	10325 ug/L	10325 ppb	13:44:27
2	B 249.677†	215907.9	225590.8	5035.5 ug/L	5035.5 ppb	13:44:21
2	Ba 233.527†	1757527.0	1831348.6	14212 ug/L	14212 ppb	13:44:21
2	Be 313.107†	7514387.8	7834453.6	2983.0 ug/L	2983.0 ppb	13:44:15
2	Cd 226.502†	854150.1	890224.5	9799.3 ug/L	9799.3 ppb	13:44:21
2	Co 228.616†	463831.9	483389.2	9806.7 ug/L	9806.7 ppb	13:44:21
2	Cr 267.716†	2095736.6	2183674.9	24242 ug/L	24242 ppb	13:44:21
2	Cu 324.752†	6596230.7	6866858.4	20485 ug/L	20485 ppb	13:44:15
2	Mn 257.610†	8410772.6	8763580.4	9610.7 ug/L	9610.7 ppb	13:44:15
2	Mo 202.031†	137039.0	142772.8	9962.1 ug/L	9962.1 ppb	13:44:27
2	Ni 231.604†	383734.9	399784.0	9887.5 ug/L	9887.5 ppb	13:44:21

2	P 214.914†	31725.4	32837.5	14936 ug/L	14936 ppb	13:44:27
2	Pb 220.353†	195069.0	203323.8	24617 ug/L	24617 ppb	13:44:27
2	S 181.975 Axial†	36587.1	38079.8	52994 ug/L	52994 ppb	13:44:27
2	Sb 206.836†	30179.3	31413.3	11020 ug/L	11020 ppb	13:44:27
2	Se 196.026†	15684.9	16375.7	10342 ug/L	10342 ppb	13:44:27
2	Si 251.611†	1482853.4	1544669.9	48776 ug/L	48776 ppb	13:44:21
2	Sn 189.927†	58669.8	61132.2	10649 ug/L	10649 ppb	13:44:27
2	Ti 334.940†	6049254.2	6304646.3	10087 ug/L	10087 ppb	13:44:15
2	Tl 190.801†	31134.0	32475.6	9872.1 ug/L	9872.1 ppb	13:44:27
2	U 409.014†	-515.5	1326.7	-15.126 ug/L	-15.126 ppb	13:44:27
2	V 292.402†	1428802.1	1490169.0	10230 ug/L	10230 ppb	13:44:21
2	Zn 213.857†	1460915.1	1521646.3	14193 ug/L	14193 ppb	13:44:21
2	SiO2†	1535905.2	1599951.5	107640 ug/L	107640 ppb	13:45:01
3	Sc Radial	4910.6	4910.6	95.9 %		13:43:25
3	Y RADIAL	5187.9	5187.9	94.23 %		13:43:25
3	Al 396.153Radial†	561.3	591.5	-7.2377 ug/L	-7.2377 ppb	13:43:25
3	Ca 317.933Radial†	23.2	5.0	8.0876 ug/L	8.0876 ppb	13:43:45
3	Fe 238.204 Radial†	-20.0	-32.4	17.627 ug/L	17.627 ppb	13:43:45
3	K 766.490 Radial†	1580271.0	1645440.6	299630 ug/L	299630 ppb	13:43:20
3	Mg 279.077 IEC†	-5.2	-8.4	-175.73 ug/L	-175.73 ppb	13:43:45
3	Na 589.592 Radial†	-142.1	1160.7	332.71 ug/L	332.71 ppb	13:43:25
3	Sr 421.552†	1472610.5	1535670.9	9804.5 ug/L	9804.5 ppb	13:43:20
3	Sc 361.383	835061.6	835061.6	97.318 %		13:44:41
3	Y 371.029	686100.8	686100.8	94.288 %		13:44:41
3	Ag 328.068†	-8790.5	-9389.8	2.3599 ug/L	2.3599 ppb	13:44:47
3	As 188.979†	23204.8	23868.1	10267 ug/L	10267 ppb	13:44:47
3	B 249.677†	220158.3	226839.9	5063.5 ug/L	5063.5 ppb	13:44:41
3	Ba 233.527†	1778069.6	1827072.5	14179 ug/L	14179 ppb	13:44:41
3	Be 313.107†	7580665.1	7794023.5	2967.6 ug/L	2967.6 ppb	13:44:35
3	Cd 226.502†	864042.9	888053.1	9775.4 ug/L	9775.4 ppb	13:44:41
3	Co 228.616†	469681.3	482700.5	9792.7 ug/L	9792.7 ppb	13:44:41
3	Cr 267.716†	2120105.2	2178445.3	24184 ug/L	24184 ppb	13:44:41
3	Cu 324.752†	6666298.4	6843584.5	20415 ug/L	20415 ppb	13:44:35
3	Mn 257.610†	8485289.8	8718670.5	9561.5 ug/L	9561.5 ppb	13:44:35
3	Mo 202.031†	138163.1	141948.5	9904.6 ug/L	9904.6 ppb	13:44:47
3	Ni 231.604†	388508.7	399146.9	9871.7 ug/L	9871.7 ppb	13:44:41
3	P 214.914†	32007.5	32669.1	14850 ug/L	14850 ppb	13:44:47
3	Pb 220.353†	196807.3	202292.5	24492 ug/L	24492 ppb	13:44:47
3	S 181.975 Axial†	36966.2	37941.0	52800 ug/L	52800 ppb	13:44:47
3	Sb 206.836†	30379.5	31183.1	10940 ug/L	10940 ppb	13:44:47
3	Se 196.026†	15797.8	16265.2	10273 ug/L	10273 ppb	13:44:47
3	Si 251.611†	1506806.7	1547865.8	48878 ug/L	48878 ppb	13:44:41
3	Sn 189.927†	59214.1	60844.1	10599 ug/L	10599 ppb	13:44:47
3	Ti 334.940†	6105556.4	6275127.9	10039 ug/L	10039 ppb	13:44:35
3	Tl 190.801†	31428.3	32328.4	9827.1 ug/L	9827.1 ppb	13:44:47
3	U 409.014†	-536.5	1312.6	-15.415 ug/L	-15.415 ppb	13:44:47
3	V 292.402†	1449052.6	1490340.6	10230 ug/L	10230 ppb	13:44:41
3	Zn 213.857†	1477927.9	1518027.3	14160 ug/L	14160 ppb	13:44:41
3	SiO2†	1526967.6	1568583.9	105530 ug/L	105530 ppb	13:45:09

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830714.1	96.812 %	0.7344			0.76%
Sc Radial	4963.2	96.9 %	0.95			0.98%
Y 371.029	682237.8	93.757 %	0.7438			0.79%
Y RADIAL	5237.0	95.13 %	0.950			1.00%
Ag 328.068†	-9311.2	2.6813 ug/L	0.78349	2.6813 ppb	0.78349	29.22%
Al 396.153Radial†	597.0	-2.4041 ug/L	10.94916	-2.4041 ppb	10.94916	455.44%
As 188.979†	23822.6	10247 ug/L	89.5	10247 ppb	89.5	0.87%
QC value within limits for As 188.979 Recovery = 102.47%						
B 249.677†	226072.1	5046.3 ug/L	15.08	5046.3 ppb	15.08	0.30%
QC value within limits for B 249.677 Recovery = 100.93%						
Ba 233.527†	1826766.3	14176 ug/L	36.8	14176 ppb	36.8	0.26%
QC value within limits for Ba 233.527 Recovery = 94.51%						
Be 313.107†	7772226.5	2959.3 ug/L	28.77	2959.3 ppb	28.77	0.97%
QC value within limits for Be 313.107 Recovery = 98.64%						
Ca 317.933Radial†	7.6	12.266 ug/L	3.6192	12.266 ppb	3.6192	29.51%
Cd 226.502†	887996.1	9774.8 ug/L	24.85	9774.8 ppb	24.85	0.25%
QC value within limits for Cd 226.502 Recovery = 97.75%						

Co 228.616†	482556.8	9789.8 ug/L	18.47	9789.8 ppb	18.47	0.19%
QC value within limits for Co 228.616 Recovery = 97.90%						
Cr 267.716†	2178713.8	24187 ug/L	53.6	24187 ppb	53.6	0.22%
QC value within limits for Cr 267.716 Recovery = 96.75%						
Cu 324.752†	6814817.3	20330 ug/L	211.6	20330 ppb	211.6	1.04%
QC value within limits for Cu 324.752 Recovery = 101.65%						
Fe 238.204 Radial†	-33.5	8.3456 ug/L	10.48241	8.3456 ppb	10.48241	125.60%
K 766.490 Radial†	1631845.7	297150 ug/L	2235.1	297150 ppb	2235.1	0.75%
QC value within limits for K 766.490 Radial Recovery = 99.05%						
Mg 279.077 IEC†	-8.9	-192.50 ug/L	15.153	-192.50 ppb	15.153	7.87%
Mn 257.610†	8692674.6	9533.0 ug/L	95.27	9533.0 ppb	95.27	1.00%
QC value within limits for Mn 257.610 Recovery = 95.33%						
Mo 202.031†	141826.2	9896.0 ug/L	70.70	9896.0 ppb	70.70	0.71%
QC value within limits for Mo 202.031 Recovery = 98.96%						
Na 589.592 Radial†	1190.2	341.17 ug/L	10.369	341.17 ppb	10.369	3.04%
Ni 231.604†	398963.8	9867.2 ug/L	22.89	9867.2 ppb	22.89	0.23%
QC value within limits for Ni 231.604 Recovery = 98.67%						
P 214.914†	32559.2	14805 ug/L	158.7	14805 ppb	158.7	1.07%
QC value within limits for P 214.914 Recovery = 98.70%						
Pb 220.353†	202085.8	24467 ug/L	163.8	24467 ppb	163.8	0.67%
QC value within limits for Pb 220.353 Recovery = 97.87%						
S 181.975 Axial†	37844.1	52666 ug/L	412.3	52666 ppb	412.3	0.78%
QC value within limits for S 181.975 Axial Recovery = 105.33%						
Sb 206.836†	31152.1	10929 ug/L	96.8	10929 ppb	96.8	0.89%
QC value within limits for Sb 206.836 Recovery = 109.29%						
Se 196.026†	16257.1	10268 ug/L	77.5	10268 ppb	77.5	0.75%
QC value within limits for Se 196.026 Recovery = 102.68%						
Si 251.611†	1545461.4	48802 ug/L	66.9	48802 ppb	66.9	0.14%
QC value within limits for Si 251.611 Recovery = 97.60%						
Sn 189.927†	60723.9	10578 ug/L	83.6	10578 ppb	83.6	0.79%
QC value within limits for Sn 189.927 Recovery = 105.78%						
Sr 421.552†	1522343.6	9719.4 ug/L	76.02	9719.4 ppb	76.02	0.78%
QC value within limits for Sr 421.552 Recovery = 97.19%						
Ti 334.940†	6253964.1	10005 ug/L	102.4	10005 ppb	102.4	1.02%
QC value within limits for Ti 334.940 Recovery = 100.05%						
Tl 190.801†	32260.1	9806.1 ug/L	78.65	9806.1 ppb	78.65	0.80%
QC value within limits for Tl 190.801 Recovery = 98.06%						
U 409.014†	1291.8	-16.033 ug/L	1.3293	-16.033 ppb	1.3293	8.29%
V 292.402†	1489137.5	10222 ug/L	14.0	10222 ppb	14.0	0.14%
QC value within limits for V 292.402 Recovery = 102.22%						
Zn 213.857†	1517920.8	14159 ug/L	35.1	14159 ppb	35.1	0.25%
QC value within limits for Zn 213.857 Recovery = 94.39%						
SiO2†	1578101.9	106170 ug/L	1278.2	106170 ppb	1278.2	1.20%
QC value within limits for SiO2 Recovery = 99.23%						
All analyte(s) passed QC.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/12/2010 13:47:18
 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	5177.0	5177.0	101 %		13:49:10
1	Y RADIAL	5491.9	5491.9	99.75 %		13:49:10
1	Al 396.153Radial†	6429.9	6366.4	5067.5 ug/L	5067.5 ppb	13:49:10
1	Ca 317.933Radial†	3189.4	3135.7	5061.8 ug/L	5061.8 ppb	13:49:30
1	Fe 238.204 Radial†	612.7	594.5	5069.6 ug/L	5069.6 ppb	13:49:30
1	K 766.490 Radial†	32445.2	29582.2	5380.8 ug/L	5380.8 ppb	13:49:10
1	Mg 279.077 IEC†	160.4	155.6	5166.8 ug/L	5166.8 ppb	13:49:30
1	Na 589.592 Radial†	33017.2	33968.4	9737.1 ug/L	9737.1 ppb	13:49:10
1	Sr 421.552†	77720.7	76868.9	490.73 ug/L	490.73 ppb	13:49:10
1	Sc 361.383	868006.0	868006.0	101.16 %		13:50:28
1	Y 371.029	719503.4	719503.4	98.879 %		13:50:28
1	Ag 328.068†	110283.0	108663.7	501.73 ug/L	501.73 ppb	13:50:33
1	As 188.979†	1206.4	1216.6	524.31 ug/L	524.31 ppb	13:50:53
1	B 249.677†	22879.4	23232.6	519.21 ug/L	519.21 ppb	13:50:33
1	Ba 233.527†	64660.3	63928.8	496.57 ug/L	496.57 ppb	13:50:33
1	Be 313.107†	1334592.0	1323792.1	501.27 ug/L	501.27 ppb	13:50:28
1	Cd 226.502†	45743.9	45422.0	499.56 ug/L	499.56 ppb	13:50:33
1	Co 228.616†	24816.8	24610.0	499.45 ug/L	499.45 ppb	13:50:33
1	Cr 267.716†	45137.2	44541.7	494.78 ug/L	494.78 ppb	13:50:33
1	Cu 324.752†	173290.2	164904.5	491.92 ug/L	491.92 ppb	13:50:33
1	Mn 257.610†	461133.5	455425.9	499.74 ug/L	499.74 ppb	13:50:28
1	Mo 202.031†	7263.1	7158.3	499.93 ug/L	499.93 ppb	13:50:53
1	Ni 231.604†	20382.2	20081.9	496.66 ug/L	496.66 ppb	13:50:33
1	P 214.914†	4438.4	4167.2	2386.6 ug/L	2386.6 ppb	13:50:53
1	Pb 220.353†	4126.8	4141.7	502.94 ug/L	502.94 ppb	13:50:53
1	S 181.975 Axial†	790.6	737.7	1025.7 ug/L	1025.7 ppb	13:50:53
1	Sb 206.836†	1551.2	1500.0	526.51 ug/L	526.51 ppb	13:50:53
1	Se 196.026†	785.3	808.3	525.85 ug/L	525.85 ppb	13:50:53
1	Si 251.611†	80367.7	78987.2	2494.3 ug/L	2494.3 ppb	13:50:33
1	Sn 189.927†	2918.6	2883.5	503.24 ug/L	503.24 ppb	13:50:53
1	Ti 334.940†	307172.1	304990.6	488.24 ug/L	488.24 ppb	13:50:33
1	Tl 190.801†	1654.0	1669.2	507.24 ug/L	507.24 ppb	13:50:53
1	U 409.014†	15380.6	17068.5	500.79 ug/L	500.79 ppb	13:50:33
1	V 292.402†	72145.6	72679.6	499.64 ug/L	499.64 ppb	13:50:33
1	Zn 213.857†	54676.8	53426.3	497.21 ug/L	497.21 ppb	13:50:33
1	SiO2†	79766.5	78394.6	5274.0 ug/L	5274.0 ppb	13:52:00
2	Sc Radial	5246.9	5246.9	102 %		13:49:36
2	Y RADIAL	5550.3	5550.3	100.8 %		13:49:36
2	Al 396.153Radial†	6503.6	6353.7	5057.4 ug/L	5057.4 ppb	13:49:36
2	Ca 317.933Radial†	3182.1	3086.5	4982.4 ug/L	4982.4 ppb	13:49:56
2	Fe 238.204 Radial†	609.3	583.1	4972.9 ug/L	4972.9 ppb	13:49:56
2	K 766.490 Radial†	32524.2	29232.0	5317.1 ug/L	5317.1 ppb	13:49:36
2	Mg 279.077 IEC†	157.8	150.9	5012.1 ug/L	5012.1 ppb	13:49:56
2	Na 589.592 Radial†	33169.4	33682.2	9655.0 ug/L	9655.0 ppb	13:49:36
2	Sr 421.552†	78280.3	76391.7	487.69 ug/L	487.69 ppb	13:49:36
2	Sc 361.383	873768.5	873768.5	101.83 %		13:50:59
2	Y 371.029	726636.0	726636.0	99.859 %		13:50:59
2	Ag 328.068†	112260.1	109886.3	507.33 ug/L	507.33 ppb	13:51:04
2	As 188.979†	1204.6	1206.9	520.20 ug/L	520.20 ppb	13:51:24
2	B 249.677†	23422.9	23617.3	527.84 ug/L	527.84 ppb	13:51:04
2	Ba 233.527†	66029.4	64851.8	503.74 ug/L	503.74 ppb	13:51:04
2	Be 313.107†	1350630.0	1330841.1	503.95 ug/L	503.95 ppb	13:50:59
2	Cd 226.502†	46798.8	46159.7	507.69 ug/L	507.69 ppb	13:51:04
2	Co 228.616†	25366.3	24987.8	507.10 ug/L	507.10 ppb	13:51:04
2	Cr 267.716†	46167.2	45258.8	502.74 ug/L	502.74 ppb	13:51:04
2	Cu 324.752†	176530.6	166956.9	498.04 ug/L	498.04 ppb	13:51:04
2	Mn 257.610†	464653.6	455876.5	500.23 ug/L	500.23 ppb	13:50:59
2	Mo 202.031†	7288.2	7135.6	498.34 ug/L	498.34 ppb	13:51:24
2	Ni 231.604†	20903.5	20461.0	506.04 ug/L	506.04 ppb	13:51:04

2	P 214.914†	4454.2	4153.9	2377.1 ug/L	2377.1 ppb	13:51:24
2	Pb 220.353†	4149.5	4137.2	502.38 ug/L	502.38 ppb	13:51:24
2	S 181.975 Axial†	788.2	730.2	1015.2 ug/L	1015.2 ppb	13:51:24
2	Sb 206.836†	1572.0	1510.3	529.94 ug/L	529.94 ppb	13:51:24
2	Se 196.026†	782.6	800.6	520.67 ug/L	520.67 ppb	13:51:24
2	Si 251.611†	81994.6	80061.0	2528.3 ug/L	2528.3 ppb	13:51:04
2	Sn 189.927†	2924.6	2870.4	500.94 ug/L	500.94 ppb	13:51:24
2	Ti 334.940†	313457.4	309160.4	494.91 ug/L	494.91 ppb	13:51:04
2	Tl 190.801†	1659.7	1664.0	505.68 ug/L	505.68 ppb	13:51:24
2	U 409.014†	15766.7	17347.3	509.00 ug/L	509.00 ppb	13:51:04
2	V 292.402†	73683.6	73719.6	506.69 ug/L	506.69 ppb	13:51:04
2	Zn 213.857†	55806.5	54179.3	504.22 ug/L	504.22 ppb	13:51:04
2	SiO2†	80255.5	78354.8	5271.4 ug/L	5271.4 ppb	13:52:06
3	Sc Radial	5130.0	5130.0	100 %		13:50:01
3	Y RADIAL	5423.6	5423.6	98.51 %		13:50:01
3	Al 396.153Radial†	6390.8	6385.7	5083.1 ug/L	5083.1 ppb	13:50:01
3	Ca 317.933Radial†	3186.0	3161.1	5102.9 ug/L	5102.9 ppb	13:50:21
3	Fe 238.204 Radial†	607.0	594.4	5069.1 ug/L	5069.1 ppb	13:50:21
3	K 766.490 Radial†	31597.0	29029.5	5280.2 ug/L	5280.2 ppb	13:50:01
3	Mg 279.077 IEC†	160.9	157.6	5233.5 ug/L	5233.5 ppb	13:50:21
3	Na 589.592 Radial†	32421.8	33673.3	9652.5 ug/L	9652.5 ppb	13:50:01
3	Sr 421.552†	76645.0	76499.5	488.38 ug/L	488.38 ppb	13:50:01
3	Sc 361.383	868771.5	868771.5	101.25 %		13:51:30
3	Y 371.029	720865.1	720865.1	99.066 %		13:51:30
3	Ag 328.068†	111191.5	109465.0	505.41 ug/L	505.41 ppb	13:51:35
3	As 188.979†	1187.7	1197.0	515.99 ug/L	515.99 ppb	13:51:55
3	B 249.677†	23084.9	23415.7	523.31 ug/L	523.31 ppb	13:51:35
3	Ba 233.527†	65402.3	64605.4	501.82 ug/L	501.82 ppb	13:51:35
3	Be 313.107†	1336110.4	1324129.2	501.41 ug/L	501.41 ppb	13:51:30
3	Cd 226.502†	46413.6	46043.6	506.40 ug/L	506.40 ppb	13:51:35
3	Co 228.616†	25140.8	24908.4	505.49 ug/L	505.49 ppb	13:51:35
3	Cr 267.716†	45601.4	44960.8	499.43 ug/L	499.43 ppb	13:51:35
3	Cu 324.752†	174463.8	165912.6	494.93 ug/L	494.93 ppb	13:51:35
3	Mn 257.610†	462230.6	456107.9	500.48 ug/L	500.48 ppb	13:51:30
3	Mo 202.031†	7205.2	7094.8	495.50 ug/L	495.50 ppb	13:51:55
3	Ni 231.604†	20662.1	20340.6	503.06 ug/L	503.06 ppb	13:51:35
3	P 214.914†	4407.1	4132.5	2365.0 ug/L	2365.0 ppb	13:51:55
3	Pb 220.353†	4122.2	4133.6	501.94 ug/L	501.94 ppb	13:51:55
3	S 181.975 Axial†	779.2	725.7	1008.9 ug/L	1008.9 ppb	13:51:55
3	Sb 206.836†	1537.6	1485.2	521.36 ug/L	521.36 ppb	13:51:55
3	Se 196.026†	789.4	811.7	527.97 ug/L	527.97 ppb	13:51:55
3	Si 251.611†	81240.0	79778.8	2519.4 ug/L	2519.4 ppb	13:51:35
3	Sn 189.927†	2902.8	2865.4	500.09 ug/L	500.09 ppb	13:51:55
3	Ti 334.940†	309892.7	307410.1	492.10 ug/L	492.10 ppb	13:51:35
3	Tl 190.801†	1655.0	1668.7	507.09 ug/L	507.09 ppb	13:51:55
3	U 409.014†	15673.8	17344.6	508.91 ug/L	508.91 ppb	13:51:35
3	V 292.402†	72819.4	73282.2	503.67 ug/L	503.67 ppb	13:51:35
3	Zn 213.857†	55205.1	53900.5	501.61 ug/L	501.61 ppb	13:51:35
3	SiO2†	80144.5	78698.4	5294.6 ug/L	5294.6 ppb	13:52:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	870182.0	101.41 %	0.365			0.36%
Sc Radial	5184.6	101 %	1.1			1.13%
Y 371.029	722334.8	99.268 %	0.5204			0.52%
Y RADIAL	5488.6	99.69 %	1.152			1.16%
Ag 328.068†	109338.3	504.82 ug/L	2.847	504.82 ppb	2.847	0.56%
QC value within limits for Ag 328.068 Recovery = 100.96%						
Al 396.153Radial†	6368.6	5069.3 ug/L	12.97	5069.3 ppb	12.97	0.26%
QC value within limits for Al 396.153Radial Recovery = 101.39%						
As 188.979†	1206.8	520.17 ug/L	4.158	520.17 ppb	4.158	0.80%
QC value within limits for As 188.979 Recovery = 104.03%						
B 249.677†	23421.9	523.45 ug/L	4.316	523.45 ppb	4.316	0.82%
QC value within limits for B 249.677 Recovery = 104.69%						
Ba 233.527†	64462.0	500.71 ug/L	3.709	500.71 ppb	3.709	0.74%
QC value within limits for Ba 233.527 Recovery = 100.14%						
Be 313.107†	1326254.1	502.21 ug/L	1.509	502.21 ppb	1.509	0.30%
QC value within limits for Be 313.107 Recovery = 100.44%						
Ca 317.933Radial†	3127.8	5049.0 ug/L	61.26	5049.0 ppb	61.26	1.21%

QC value within limits for Ca 317.933 Radial Recovery = 100.98%							
Cd 226.502†	45875.1	504.55 ug/L	4.371	504.55 ppb	4.371	0.87%	
QC value within limits for Cd 226.502 Recovery = 100.91%							
Co 228.616†	24835.4	504.02 ug/L	4.033	504.02 ppb	4.033	0.80%	
QC value within limits for Co 228.616 Recovery = 100.80%							
Cr 267.716†	44920.4	498.99 ug/L	4.000	498.99 ppb	4.000	0.80%	
QC value within limits for Cr 267.716 Recovery = 99.80%							
Cu 324.752†	165924.7	494.96 ug/L	3.057	494.96 ppb	3.057	0.62%	
QC value within limits for Cu 324.752 Recovery = 98.99%							
Fe 238.204 Radial†	590.6	5037.2 ug/L	55.64	5037.2 ppb	55.64	1.10%	
QC value within limits for Fe 238.204 Radial Recovery = 100.74%							
K 766.490 Radial†	29281.2	5326.1 ug/L	50.90	5326.1 ppb	50.90	0.96%	
QC value within limits for K 766.490 Radial Recovery = 106.52%							
Mg 279.077 IEC†	154.7	5137.5 ug/L	113.61	5137.5 ppb	113.61	2.21%	
QC value within limits for Mg 279.077 IEC Recovery = 102.75%							
Mn 257.610†	455803.4	500.15 ug/L	0.379	500.15 ppb	0.379	0.08%	
QC value within limits for Mn 257.610 Recovery = 100.03%							
Mo 202.031†	7129.6	497.92 ug/L	2.244	497.92 ppb	2.244	0.45%	
QC value within limits for Mo 202.031 Recovery = 99.58%							
Na 589.592 Radial†	33774.6	9681.5 ug/L	48.12	9681.5 ppb	48.12	0.50%	
QC value within limits for Na 589.592 Radial Recovery = 96.82%							
Ni 231.604†	20294.5	501.92 ug/L	4.791	501.92 ppb	4.791	0.95%	
QC value within limits for Ni 231.604 Recovery = 100.38%							
P 214.914†	4151.2	2376.2 ug/L	10.82	2376.2 ppb	10.82	0.46%	
QC value within limits for P 214.914 Recovery = 95.05%							
Pb 220.353†	4137.5	502.42 ug/L	0.499	502.42 ppb	0.499	0.10%	
QC value within limits for Pb 220.353 Recovery = 100.48%							
S 181.975 Axial†	731.2	1016.6 ug/L	8.47	1016.6 ppb	8.47	0.83%	
QC value within limits for S 181.975 Axial Recovery = 101.66%							
Sb 206.836†	1498.5	525.94 ug/L	4.316	525.94 ppb	4.316	0.82%	
QC value within limits for Sb 206.836 Recovery = 105.19%							
Se 196.026†	806.9	524.83 ug/L	3.758	524.83 ppb	3.758	0.72%	
QC value within limits for Se 196.026 Recovery = 104.97%							
Si 251.611†	79609.0	2514.0 ug/L	17.64	2514.0 ppb	17.64	0.70%	
QC value within limits for Si 251.611 Recovery = 100.56%							
Sn 189.927†	2873.1	501.42 ug/L	1.628	501.42 ppb	1.628	0.32%	
QC value within limits for Sn 189.927 Recovery = 100.28%							
Sr 421.552†	76586.7	488.93 ug/L	1.597	488.93 ppb	1.597	0.33%	
QC value within limits for Sr 421.552 Recovery = 97.79%							
Ti 334.940†	307187.1	491.75 ug/L	3.350	491.75 ppb	3.350	0.68%	
QC value within limits for Ti 334.940 Recovery = 98.35%							
Tl 190.801†	1667.3	506.67 ug/L	0.861	506.67 ppb	0.861	0.17%	
QC value within limits for Tl 190.801 Recovery = 101.33%							
U 409.014†	17253.5	506.23 ug/L	4.711	506.23 ppb	4.711	0.93%	
QC value within limits for U 409.014 Recovery = 101.25%							
V 292.402†	73227.1	503.34 ug/L	3.535	503.34 ppb	3.535	0.70%	
QC value within limits for V 292.402 Recovery = 100.67%							
Zn 213.857†	53835.4	501.01 ug/L	3.543	501.01 ppb	3.543	0.71%	
QC value within limits for Zn 213.857 Recovery = 100.20%							
SiO2†	78482.6	5280.0 ug/L	12.73	5280.0 ppb	12.73	0.24%	
QC value within limits for SiO2 Recovery = 98.74%							
All analyte(s) passed QC.							

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/12/2010 13:54:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5283.0	5283.0	103 %		13:56:13
1	Y RADIAL	5629.2	5629.2	102.2 %		13:56:13
1	Al 396.153Radial†	-0.8	5.4	4.3122 ug/L	4.3122 ppb	13:56:13
1	Ca 317.933Radial†	19.3	-0.5	-0.8525 ug/L	-0.8525 ppb	13:56:33
1	Fe 238.204 Radial†	10.3	-1.6	-13.552 ug/L	-13.552 ppb	13:56:33
1	K 766.490 Radial†	3375.3	760.2	138.41 ug/L	138.41 ppb	13:56:13
1	Mg 279.077 IEC†	3.5	0.3	10.291 ug/L	10.291 ppb	13:56:33
1	Na 589.592 Radial†	-1042.0	298.8	85.664 ug/L	85.664 ppb	13:56:13
1	Sr 421.552†	12.0	1.9	0.0120 ug/L	0.0120 ppb	13:56:13
1	Sc 361.383	878242.6	878242.6	102.35 %		13:57:30
1	Y 371.029	742332.4	742332.4	102.02 %		13:57:30
1	Ag 328.068†	249.8	-113.0	-0.5251 ug/L	-0.5251 ppb	13:57:35
1	As 188.979†	6.4	30.2	12.903 ug/L	12.903 ppb	13:57:55
1	B 249.677†	250.5	859.8	19.301 ug/L	19.301 ppb	13:57:55
1	Ba 233.527†	-33.5	-24.2	-0.1875 ug/L	-0.1875 ppb	13:57:55
1	Be 313.107†	-4604.1	-23.7	-0.0087 ug/L	-0.0087 ppb	13:57:35
1	Cd 226.502†	-126.3	78.2	0.8624 ug/L	0.8624 ppb	13:57:55
1	Co 228.616†	-73.4	5.5	0.1130 ug/L	0.1130 ppb	13:57:55
1	Cr 267.716†	105.7	24.3	0.2685 ug/L	0.2685 ppb	13:57:55
1	Cu 324.752†	6522.3	-29.9	-0.0918 ug/L	-0.0918 ppb	13:57:35
1	Mn 257.610†	444.3	4.3	0.0030 ug/L	0.0030 ppb	13:57:55
1	Mo 202.031†	29.2	6.9	0.4816 ug/L	0.4816 ppb	13:57:55
1	Ni 231.604†	49.0	-19.2	-0.4742 ug/L	-0.4742 ppb	13:57:55
1	P 214.914†	243.3	17.4	10.501 ug/L	10.501 ppb	13:57:55
1	Pb 220.353†	-42.3	20.9	2.5313 ug/L	2.5313 ppb	13:57:55
1	S 181.975 Axial†	53.2	8.1	11.227 ug/L	11.227 ppb	13:57:55
1	Sb 206.836†	52.2	17.5	6.0162 ug/L	6.0162 ppb	13:57:55
1	Se 196.026†	-32.5	0.3	0.1206 ug/L	0.1206 ppb	13:57:55
1	Si 251.611†	615.9	141.1	4.4605 ug/L	4.4605 ppb	13:57:55
1	Sn 189.927†	20.8	18.7	3.2497 ug/L	3.2497 ppb	13:57:55
1	Ti 334.940†	-1286.4	77.3	0.1214 ug/L	0.1214 ppb	13:57:35
1	Tl 190.801†	-29.2	5.5	1.6651 ug/L	1.6651 ppb	13:57:55
1	U 409.014†	-1797.5	107.7	3.1713 ug/L	3.1713 ppb	13:57:30
1	V 292.402†	-1381.9	9.5	0.0801 ug/L	0.0801 ppb	13:57:35
1	Zn 213.857†	774.8	132.3	1.2465 ug/L	1.2465 ppb	13:57:55
1	SiO2†	573.2	101.0	6.7985 ug/L	6.7985 ppb	13:59:01
2	Sc Radial	5251.1	5251.1	103 %		13:56:38
2	Y RADIAL	5580.4	5580.4	101.4 %		13:56:38
2	Al 396.153Radial†	-16.7	-10.1	-8.0961 ug/L	-8.0961 ppb	13:56:38
2	Ca 317.933Radial†	19.3	-0.4	-0.6202 ug/L	-0.6202 ppb	13:56:58
2	Fe 238.204 Radial†	8.8	-2.9	-24.849 ug/L	-24.849 ppb	13:56:58
2	K 766.490 Radial†	3309.8	716.2	130.39 ug/L	130.39 ppb	13:56:38
2	Mg 279.077 IEC†	4.8	1.7	54.846 ug/L	54.846 ppb	13:56:58
2	Na 589.592 Radial†	-1004.2	329.6	94.482 ug/L	94.482 ppb	13:56:38
2	Sr 421.552†	2.6	-7.2	-0.0459 ug/L	-0.0459 ppb	13:56:38
2	Sc 361.383	880232.0	880232.0	102.58 %		13:58:00
2	Y 371.029	742313.3	742313.3	102.01 %		13:58:00
2	Ag 328.068†	307.0	-57.8	-0.2741 ug/L	-0.2741 ppb	13:58:05
2	As 188.979†	3.5	27.3	11.683 ug/L	11.683 ppb	13:58:25
2	B 249.677†	224.8	834.2	18.729 ug/L	18.729 ppb	13:58:25
2	Ba 233.527†	-11.7	-2.8	-0.0221 ug/L	-0.0221 ppb	13:58:25
2	Be 313.107†	-4573.0	16.8	0.0066 ug/L	0.0066 ppb	13:58:05
2	Cd 226.502†	-153.0	52.5	0.5798 ug/L	0.5798 ppb	13:58:25
2	Co 228.616†	-79.5	-0.3	-0.0051 ug/L	-0.0051 ppb	13:58:25
2	Cr 267.716†	99.7	18.2	0.2008 ug/L	0.2008 ppb	13:58:25
2	Cu 324.752†	6327.1	-234.6	-0.7026 ug/L	-0.7026 ppb	13:58:05
2	Mn 257.610†	433.7	-7.0	-0.0124 ug/L	-0.0124 ppb	13:58:25
2	Mo 202.031†	24.0	1.8	0.1234 ug/L	0.1234 ppb	13:58:25
2	Ni 231.604†	48.1	-20.2	-0.4988 ug/L	-0.4988 ppb	13:58:25

2	P 214.914†	232.7	6.5	4.1244 ug/L	4.1244 ppb	13:58:25
2	Pb 220.353†	-37.8	25.4	3.0706 ug/L	3.0706 ppb	13:58:25
2	S 181.975 Axial†	55.0	9.8	13.600 ug/L	13.600 ppb	13:58:25
2	Sb 206.836†	53.8	19.0	6.4880 ug/L	6.4880 ppb	13:58:25
2	Se 196.026†	-28.1	4.7	2.8759 ug/L	2.8759 ppb	13:58:25
2	Si 251.611†	591.1	115.5	3.6560 ug/L	3.6560 ppb	13:58:25
2	Sn 189.927†	17.4	15.3	2.6675 ug/L	2.6675 ppb	13:58:25
2	Ti 334.940†	-1298.0	68.8	0.1043 ug/L	0.1043 ppb	13:58:05
2	Tl 190.801†	-19.4	15.2	4.5912 ug/L	4.5912 ppb	13:58:25
2	U 409.014†	-1818.5	91.1	2.6848 ug/L	2.6848 ppb	13:58:00
2	V 292.402†	-1358.4	35.5	0.2527 ug/L	0.2527 ppb	13:58:05
2	Zn 213.857†	776.8	132.6	1.2514 ug/L	1.2514 ppb	13:58:25
2	SiO2†	615.2	140.7	9.4841 ug/L	9.4841 ppb	13:59:06
3	Sc Radial	5285.5	5285.5	103 %		13:57:03
3	Y RADIAL	5655.6	5655.6	102.7 %		13:57:03
3	Al 396.153Radial†	-0.4	5.8	4.6244 ug/L	4.6244 ppb	13:57:03
3	Ca 317.933Radial†	17.1	-2.7	-4.2842 ug/L	-4.2842 ppb	13:57:23
3	Fe 238.204 Radial†	11.0	-0.9	-7.4570 ug/L	-7.4570 ppb	13:57:23
3	K 766.490 Radial†	3264.7	651.5	118.61 ug/L	118.61 ppb	13:57:03
3	Mg 279.077 IEC†	0.8	-2.2	-74.102 ug/L	-74.102 ppb	13:57:23
3	Na 589.592 Radial†	-1042.1	299.2	85.770 ug/L	85.770 ppb	13:57:03
3	Sr 421.552†	-0.5	-10.3	-0.0654 ug/L	-0.0654 ppb	13:57:03
3	Sc 361.383	878888.4	878888.4	102.43 %		13:58:30
3	Y 371.029	740439.6	740439.6	101.76 %		13:58:30
3	Ag 328.068†	243.5	-119.3	-0.5482 ug/L	-0.5482 ppb	13:58:35
3	As 188.979†	4.7	28.5	12.191 ug/L	12.191 ppb	13:58:55
3	B 249.677†	233.2	842.8	18.917 ug/L	18.917 ppb	13:58:55
3	Ba 233.527†	-22.6	-13.5	-0.1039 ug/L	-0.1039 ppb	13:58:55
3	Be 313.107†	-4601.2	-17.6	-0.0063 ug/L	-0.0063 ppb	13:58:35
3	Cd 226.502†	-131.2	73.5	0.8093 ug/L	0.8093 ppb	13:58:55
3	Co 228.616†	-75.2	3.8	0.0776 ug/L	0.0776 ppb	13:58:55
3	Cr 267.716†	98.8	17.5	0.1941 ug/L	0.1941 ppb	13:58:55
3	Cu 324.752†	6531.5	-25.6	-0.0770 ug/L	-0.0770 ppb	13:58:35
3	Mn 257.610†	426.8	-13.1	-0.0121 ug/L	-0.0121 ppb	13:58:55
3	Mo 202.031†	24.2	2.0	0.1384 ug/L	0.1384 ppb	13:58:55
3	Ni 231.604†	42.7	-25.3	-0.6259 ug/L	-0.6259 ppb	13:58:55
3	P 214.914†	232.2	6.4	3.8779 ug/L	3.8779 ppb	13:58:55
3	Pb 220.353†	-43.2	20.0	2.4241 ug/L	2.4241 ppb	13:58:55
3	S 181.975 Axial†	49.6	4.5	6.3006 ug/L	6.3006 ppb	13:58:55
3	Sb 206.836†	57.0	22.2	7.5469 ug/L	7.5469 ppb	13:58:55
3	Se 196.026†	-33.7	-0.9	-0.5866 ug/L	-0.5866 ppb	13:58:55
3	Si 251.611†	595.0	120.3	3.8053 ug/L	3.8053 ppb	13:58:55
3	Sn 189.927†	4.9	3.1	0.5458 ug/L	0.5458 ppb	13:58:55
3	Ti 334.940†	-1282.1	82.4	0.1372 ug/L	0.1372 ppb	13:58:35
3	Tl 190.801†	-35.0	-0.0	-0.0140 ug/L	-0.0140 ppb	13:58:55
3	U 409.014†	-1900.6	8.3	0.2443 ug/L	0.2443 ppb	13:58:30
3	V 292.402†	-1337.5	53.9	0.3673 ug/L	0.3673 ppb	13:58:35
3	Zn 213.857†	758.0	115.4	1.0877 ug/L	1.0877 ppb	13:58:55
3	SiO2†	608.6	135.1	9.1111 ug/L	9.1111 ppb	13:59:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	879121.0	102.45 %	0.118			0.12%
Sc Radial	5273.2	103 %	0.4			0.36%
Y 371.029	741695.1	101.93 %	0.149			0.15%
Y RADIAL	5621.7	102.1 %	0.69			0.68%
Ag 328.068†	-96.7	-0.4492 ug/L	0.15202	-0.4492 ppb	0.15202	33.85%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.4	0.2802 ug/L	7.25575	0.2802 ppb	7.25575	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	28.7	12.259 ug/L	0.6130	12.259 ppb	0.6130	5.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	845.6	18.982 ug/L	0.2918	18.982 ppb	0.2918	1.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-13.5	-0.1045 ug/L	0.08270	-0.1045 ppb	0.08270	79.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-8.2	-0.0028 ug/L	0.00822	-0.0028 ppb	0.00822	292.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.2	-1.9190 ug/L	2.05161	-1.9190 ppb	2.05161	106.91%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	68.1	0.7505 ug/L	0.15017	0.7505 ppb	0.15017	20.01%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	3.0	0.0618 ug/L	0.06064	0.0618 ppb	0.06064	98.06%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	20.0	0.2211 ug/L	0.04116	0.2211 ppb	0.04116	18.61%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-96.7	-0.2905 ug/L	0.35699	-0.2905 ppb	0.35699	122.90%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.8	-15.286 ug/L	8.8246	-15.286 ppb	8.8246	57.73%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	709.3	129.14 ug/L	9.961	129.14 ppb	9.961	7.71%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.1	-2.9882 ug/L	65.49156	-2.9882 ppb	65.49156	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-5.3	-0.0072 ug/L	0.00878	-0.0072 ppb	0.00878	122.67%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.6	0.2478 ug/L	0.20261	0.2478 ppb	0.20261	81.75%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	309.2	88.638 ug/L	5.0607	88.638 ppb	5.0607	5.71%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-21.5	-0.5330 ug/L	0.08142	-0.5330 ppb	0.08142	15.28%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	10.1	6.1677 ug/L	3.75446	6.1677 ppb	3.75446	60.87%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	22.1	2.6754 ug/L	0.34648	2.6754 ppb	0.34648	12.95%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.5	10.376 ug/L	3.7236	10.376 ppb	3.7236	35.89%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	19.6	6.6837 ug/L	0.78389	6.6837 ppb	0.78389	11.73%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.3	0.8033 ug/L	1.82941	0.8033 ppb	1.82941	227.73%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	125.6	3.9739 ug/L	0.42791	3.9739 ppb	0.42791	10.77%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	12.4	2.1543 ug/L	1.42313	2.1543 ppb	1.42313	66.06%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-5.2	-0.0331 ug/L	0.04025	-0.0331 ppb	0.04025	121.54%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	76.2	0.1210 ug/L	0.01644	0.1210 ppb	0.01644	13.59%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	6.9	2.0808 ug/L	2.33055	2.0808 ppb	2.33055	112.00%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	69.0	2.0334 ug/L	1.56845	2.0334 ppb	1.56845	77.13%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	33.0	0.2334 ug/L	0.14458	0.2334 ppb	0.14458	61.95%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	126.8	1.1952 ug/L	0.09315	1.1952 ppb	0.09315	7.79%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	125.6	8.4646 ug/L	1.45487	8.4646 ppb	1.45487	17.19%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

=====
Analysis Begun

Start Time: 1/12/2010 14:12:32

Plasma On Time: 1/11/2010 06:15:31

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\011210.sif

Batch ID:

Results Data Set: 011210

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 1/12/2010 12:24:47

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: LRL

Date Collected: 1/12/2010 14:12:33

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5074.5	5074.5	99.1 %		14:14:26
1	Y RADIAL	5421.9	5421.9	98.48 %		14:14:26
1	Al 396.153Radial†	-7.4	-1.3	0.2854 ug/L	0.2854 ppb	14:14:26

1	Ca 317.933Radial†	-1.8	-21.0	-33.907 ug/L	-33.907 ppb	14:14:46
1	Fe 238.204 Radial†	43162.5	43546.1	370260 ug/L	370260 ppb	14:14:26
1	K 766.490 Radial†	2462.1	-26.9	-4.8692 ug/L	-4.8692 ppb	14:14:26
1	Mg 279.077 IEC†	13.5	10.6	-35.738 ug/L	-35.738 ppb	14:14:46
1	Na 589.592 Radial†	-1085.9	213.1	61.073 ug/L	61.073 ppb	14:14:26
1	Sr 421.552†	97.4	88.5	0.5655 ug/L	0.5655 ppb	14:14:26
1	Sc 361.383	854254.0	854254.0	99.555 %		14:15:44
1	Y 371.029	713373.9	713373.9	98.036 %		14:15:44
1	Ag 328.068†	-25544.9	-26016.2	0.8293 ug/L	0.8293 ppb	14:15:49
1	As 188.979†	-221.5	-198.5	1.9262 ug/L	1.9262 ppb	14:16:09
1	B 249.677†	2578.1	3204.8	11.788 ug/L	11.788 ppb	14:15:49
1	Ba 233.527†	-1448.6	-1446.5	0.1950 ug/L	0.1950 ppb	14:15:49
1	Be 313.107†	-4462.5	-7.8	-0.0030 ug/L	-0.0030 ppb	14:15:49
1	Cd 226.502†	3176.1	3391.9	-0.9192 ug/L	-0.9192 ppb	14:15:49
1	Co 228.616†	178.5	256.6	-0.2074 ug/L	-0.2074 ppb	14:16:09
1	Cr 267.716†	-519.1	-600.4	0.5994 ug/L	0.5994 ppb	14:15:49
1	Cu 324.752†	1222.0	-5175.0	4.1274 ug/L	4.1274 ppb	14:15:49
1	Mn 257.610†	-30129.3	-30693.7	2.8943 ug/L	2.8943 ppb	14:15:44
1	Mo 202.031†	-367.4	-390.6	1.4871 ug/L	1.4871 ppb	14:15:49
1	Ni 231.604†	157.6	91.3	2.2553 ug/L	2.2553 ppb	14:16:09
1	P 214.914†	676.4	459.1	-18.926 ug/L	-18.926 ppb	14:16:09
1	Pb 220.353†	222.3	285.5	-0.8845 ug/L	-0.8845 ppb	14:16:09
1	S 181.975 Axial†	75.1	31.6	43.983 ug/L	43.983 ppb	14:16:09
1	Sb 206.836†	16.1	-17.3	-1.6388 ug/L	-1.6388 ppb	14:16:09
1	Se 196.026†	-1580.6	-1555.6	119.76 ug/L	119.76 ppb	14:16:09
1	Si 251.611†	-557.3	-1020.4	-31.967 ug/L	-31.967 ppb	14:15:49
1	Sn 189.927†	-15.4	-17.1	3.2478 ug/L	3.2478 ppb	14:16:09
1	Ti 334.940†	-1330.4	-2.2	-0.0607 ug/L	-0.0607 ppb	14:15:49
1	Tl 190.801†	-50.1	-16.2	-5.1893 ug/L	-5.1893 ppb	14:16:09
1	U 409.014†	170.4	2035.0	17.713 ug/L	17.713 ppb	14:15:49
1	V 292.402†	7826.5	9221.2	2.1578 ug/L	2.1578 ppb	14:15:49
1	Zn 213.857†	4456.4	3851.7	0.2457 ug/L	0.2457 ppb	14:16:09
1	SiO2†	-599.1	-1060.8	-70.810 ug/L	-70.810 ppb	14:17:16
2	Sc Radial	5138.4	5138.4	100 %		14:14:52
2	Y RADIAL	5462.3	5462.3	99.22 %		14:14:52
2	Al 396.153Radial†	-24.7	-18.4	-13.356 ug/L	-13.356 ppb	14:14:52
2	Ca 317.933Radial†	4.9	-14.3	-23.082 ug/L	-23.082 ppb	14:15:12
2	Fe 238.204 Radial†	43610.8	43451.2	369460 ug/L	369460 ppb	14:14:52
2	K 766.490 Radial†	2573.8	53.6	9.7821 ug/L	9.7821 ppb	14:14:52
2	Mg 279.077 IEC†	12.8	9.7	-64.148 ug/L	-64.148 ppb	14:15:12
2	Na 589.592 Radial†	-1091.4	221.2	63.413 ug/L	63.413 ppb	14:14:52
2	Sr 421.552†	87.6	77.5	0.4951 ug/L	0.4951 ppb	14:14:52
2	Sc 361.383	846726.6	846726.6	98.678 %		14:16:14
2	Y 371.029	707416.3	707416.3	97.217 %		14:16:14
2	Ag 328.068†	-25218.0	-25913.0	1.0481 ug/L	1.0481 ppb	14:16:20
2	As 188.979†	-214.2	-193.2	4.0317 ug/L	4.0317 ppb	14:16:40
2	B 249.677†	2551.6	3200.9	11.833 ug/L	11.833 ppb	14:16:20
2	Ba 233.527†	-1597.3	-1610.1	-1.0961 ug/L	-1.0961 ppb	14:16:20
2	Be 313.107†	-4564.0	-150.5	-0.0571 ug/L	-0.0571 ppb	14:16:20
2	Cd 226.502†	3225.4	3470.3	0.0243 ug/L	0.0243 ppb	14:16:20
2	Co 228.616†	174.4	254.0	-0.2510 ug/L	-0.2510 ppb	14:16:40
2	Cr 267.716†	-558.5	-644.9	0.0925 ug/L	0.0925 ppb	14:16:20
2	Cu 324.752†	1226.5	-5159.5	4.1337 ug/L	4.1337 ppb	14:16:20
2	Mn 257.610†	-30006.5	-30838.3	2.6572 ug/L	2.6572 ppb	14:16:14
2	Mo 202.031†	-381.0	-407.8	0.2287 ug/L	0.2287 ppb	14:16:20
2	Ni 231.604†	114.0	48.5	1.1978 ug/L	1.1978 ppb	14:16:40
2	P 214.914†	655.5	444.0	-27.424 ug/L	-27.424 ppb	14:16:40
2	Pb 220.353†	214.4	279.4	-1.5520 ug/L	-1.5520 ppb	14:16:40
2	S 181.975 Axial†	73.7	30.9	42.955 ug/L	42.955 ppb	14:16:40
2	Sb 206.836†	27.7	-5.3	2.3549 ug/L	2.3549 ppb	14:16:40
2	Se 196.026†	-1563.9	-1552.8	119.15 ug/L	119.15 ppb	14:16:40
2	Si 251.611†	-562.6	-1030.8	-32.280 ug/L	-32.280 ppb	14:16:20
2	Sn 189.927†	-27.8	-29.8	1.0217 ug/L	1.0217 ppb	14:16:40
2	Ti 334.940†	-1374.2	-58.4	-0.1444 ug/L	-0.1444 ppb	14:16:20
2	Tl 190.801†	-57.8	-24.5	-7.6951 ug/L	-7.6951 ppb	14:16:40
2	U 409.014†	-13.9	1849.8	12.354 ug/L	12.354 ppb	14:16:20
2	V 292.402†	7838.6	9303.4	2.8174 ug/L	2.8174 ppb	14:16:20
2	Zn 213.857†	4486.9	3922.4	0.9945 ug/L	0.9945 ppb	14:16:40
2	SiO2†	-616.6	-1083.9	-72.332 ug/L	-72.332 ppb	14:17:21
3	Sc Radial	5205.1	5205.1	102 %		14:15:17
3	Y RADIAL	5566.3	5566.3	101.1 %		14:15:17

3	Al 396.153Radial†	-34.5	-27.7	-20.785 ug/L	-20.785 ppb	14:15:17
3	Ca 317.933Radial†	1.3	-17.9	-28.926 ug/L	-28.926 ppb	14:15:37
3	Fe 238.204 Radial†	44301.7	43574.0	370500 ug/L	370500 ppb	14:15:17
3	K 766.490 Radial†	2530.3	-22.2	-4.0066 ug/L	-4.0066 ppb	14:15:17
3	Mg 279.077 IEC†	8.9	5.7	-197.49 ug/L	-197.49 ppb	14:15:37
3	Na 589.592 Radial†	-1098.0	228.6	65.538 ug/L	65.538 ppb	14:15:17
3	Sr 421.552†	76.3	65.3	0.4170 ug/L	0.4170 ppb	14:15:17
3	Sc 361.383	851438.2	851438.2	99.227 %		14:16:45
3	Y 371.029	711617.7	711617.7	97.795 %		14:16:45
3	Ag 328.068†	-25779.9	-26337.8	-0.5610 ug/L	-0.5610 ppb	14:16:50
3	As 188.979†	-216.8	-194.5	3.7008 ug/L	3.7008 ppb	14:17:10
3	B 249.677†	2425.0	3059.0	8.4786 ug/L	8.4786 ppb	14:16:50
3	Ba 233.527†	-1514.5	-1517.7	-0.3466 ug/L	-0.3466 ppb	14:16:50
3	Be 313.107†	-4531.9	-92.5	-0.0348 ug/L	-0.0348 ppb	14:16:50
3	Cd 226.502†	3232.7	3459.5	-0.2017 ug/L	-0.2017 ppb	14:16:50
3	Co 228.616†	165.1	243.6	-0.4778 ug/L	-0.4778 ppb	14:17:10
3	Cr 267.716†	-471.7	-554.4	1.1176 ug/L	1.1176 ppb	14:16:50
3	Cu 324.752†	1362.1	-5029.7	4.5752 ug/L	4.5752 ppb	14:16:50
3	Mn 257.610†	-30208.1	-30873.3	2.7275 ug/L	2.7275 ppb	14:16:45
3	Mo 202.031†	-388.5	-413.1	-0.0632 ug/L	-0.0632 ppb	14:16:50
3	Ni 231.604†	124.4	58.3	1.4398 ug/L	1.4398 ppb	14:17:10
3	P 214.914†	675.6	460.6	-18.390 ug/L	-18.390 ppb	14:17:10
3	Pb 220.353†	240.5	304.6	1.3852 ug/L	1.3852 ppb	14:17:10
3	S 181.975 Axial†	72.0	28.7	39.984 ug/L	39.984 ppb	14:17:10
3	Sb 206.836†	21.9	-11.4	0.3161 ug/L	0.3161 ppb	14:17:10
3	Se 196.026†	-1567.7	-1547.9	125.34 ug/L	125.34 ppb	14:17:10
3	Si 251.611†	-632.9	-1098.5	-34.420 ug/L	-34.420 ppb	14:16:50
3	Sn 189.927†	-25.0	-26.8	1.5547 ug/L	1.5547 ppb	14:17:10
3	Ti 334.940†	-1285.8	38.4	0.0193 ug/L	0.0193 ppb	14:16:50
3	Tl 190.801†	-43.9	-10.2	-3.3811 ug/L	-3.3811 ppb	14:17:10
3	U 409.014†	57.6	1921.9	14.355 ug/L	14.355 ppb	14:16:50
3	V 292.402†	7971.9	9393.7	3.2556 ug/L	3.2556 ppb	14:16:50
3	Zn 213.857†	4489.8	3900.1	0.6823 ug/L	0.6823 ppb	14:17:10
3	SiO2†	-640.0	-1104.0	-73.676 ug/L	-73.676 ppb	14:17:26

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850806.3	99.153 %		0.4432			0.45%
Sc Radial	5139.3	100 %		1.3			1.27%
Y 371.029	710802.6	97.683 %		0.4207			0.43%
Y RADIAL	5483.5	99.60 %		1.353			1.36%
Ag 328.068†	-26089.0	0.4388 ug/L		0.87277	0.4388 ppb	0.87277	198.90%
Al 396.153Radial†	-15.8	-11.285 ug/L		10.6869	-11.285 ppb	10.6869	94.70%
As 188.979†	-195.4	3.2196 ug/L		1.13219	3.2196 ppb	1.13219	35.17%
B 249.677†	3154.9	10.700 ug/L		1.9236	10.700 ppb	1.9236	17.98%
Ba 233.527†	-1524.8	-0.4159 ug/L		0.64837	-0.4159 ppb	0.64837	155.90%
Be 313.107†	-83.6	-0.0316 ug/L		0.02720	-0.0316 ppb	0.02720	86.01%
Ca 317.933Radial†	-17.7	-28.638 ug/L		5.4181	-28.638 ppb	5.4181	18.92%
Cd 226.502†	3440.6	-0.3655 ug/L		0.49262	-0.3655 ppb	0.49262	134.76%
Co 228.616†	251.4	-0.3121 ug/L		0.14514	-0.3121 ppb	0.14514	46.51%
Cr 267.716†	-599.9	0.6032 ug/L		0.51258	0.6032 ppb	0.51258	84.98%
Cu 324.752†	-5121.4	4.2787 ug/L		0.25673	4.2787 ppb	0.25673	6.00%
Fe 238.204 Radial†	43523.8	370070 ug/L		547.5	370070 ppb	547.5	0.15%
K 766.490 Radial†	1.5	0.3021 ug/L		8.22123	0.3021 ppb	8.22123	>999.9%
Mg 279.077 IEC†	8.7	-99.127 ug/L		86.3640	-99.127 ppb	86.3640	87.13%
Mn 257.610†	-30801.8	2.7597 ug/L		0.12178	2.7597 ppb	0.12178	4.41%
Mo 202.031†	-403.8	0.5509 ug/L		0.82384	0.5509 ppb	0.82384	149.55%
Na 589.592 Radial†	221.0	63.341 ug/L		2.2332	63.341 ppb	2.2332	3.53%
Ni 231.604†	66.0	1.6310 ug/L		0.55406	1.6310 ppb	0.55406	33.97%
P 214.914†	454.6	-21.580 ug/L		5.0680	-21.580 ppb	5.0680	23.48%
Pb 220.353†	289.8	-0.3504 ug/L		1.53974	-0.3504 ppb	1.53974	439.41%
S 181.975 Axial†	30.4	42.307 ug/L		2.0767	42.307 ppb	2.0767	4.91%
Sb 206.836†	-11.3	0.3441 ug/L		1.99699	0.3441 ppb	1.99699	580.43%
Se 196.026†	-1552.1	121.42 ug/L		3.411	121.42 ppb	3.411	2.81%
Si 251.611†	-1049.9	-32.889 ug/L		1.3350	-32.889 ppb	1.3350	4.06%
Sn 189.927†	-24.6	1.9414 ug/L		1.16232	1.9414 ppb	1.16232	59.87%
Sr 421.552†	77.1	0.4926 ug/L		0.07431	0.4926 ppb	0.07431	15.09%
Ti 334.940†	-7.4	-0.0619 ug/L		0.08186	-0.0619 ppb	0.08186	132.21%
Tl 190.801†	-17.0	-5.4218 ug/L		2.16637	-5.4218 ppb	2.16637	39.96%

U 409.014†	1935.6	14.807 ug/L	2.7081	14.807 ppb	2.7081	18.29%
V 292.402†	9306.1	2.7436 ug/L	0.55260	2.7436 ppb	0.55260	20.14%
Zn 213.857†	3891.4	0.6408 ug/L	0.37610	0.6408 ppb	0.37610	58.69%
SiO2†	-1082.9	-72.273 ug/L	1.4337	-72.273 ppb	1.4337	1.98%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/12/2010 14:19:37

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	5165.4	5165.4	101 %		14:21:29
1	Y RADIAL	5478.9	5478.9	99.52 %		14:21:29
1	Al 396.153Radial†	6456.0	6406.7	5099.9 ug/L	5099.9 ppb	14:21:29
1	Ca 317.933Radial†	3227.6	3180.6	5134.3 ug/L	5134.3 ppb	14:21:49
1	Fe 238.204 Radial†	622.3	605.4	5162.8 ug/L	5162.8 ppb	14:21:49
1	K 766.490 Radial†	30275.6	27503.5	5002.2 ug/L	5002.2 ppb	14:21:29
1	Mg 279.077 IEC†	160.5	156.1	5184.0 ug/L	5184.0 ppb	14:21:49
1	Na 589.592 Radial†	33325.2	34347.2	9845.7 ug/L	9845.7 ppb	14:21:29
1	Sr 421.552†	78740.1	78052.7	498.29 ug/L	498.29 ppb	14:21:29
1	Sc 361.383	873197.0	873197.0	101.76 %		14:22:47
1	Y 371.029	724713.7	724713.7	99.595 %		14:22:47
1	Ag 328.068†	112194.1	109893.6	507.41 ug/L	507.41 ppb	14:22:52
1	As 188.979†	1158.8	1162.7	501.48 ug/L	501.48 ppb	14:23:12
1	B 249.677†	22232.7	22462.7	501.90 ug/L	501.90 ppb	14:22:52
1	Ba 233.527†	65881.7	64749.1	502.94 ug/L	502.94 ppb	14:22:52
1	Be 313.107†	1353056.5	1334093.6	505.20 ug/L	505.20 ppb	14:22:47
1	Cd 226.502†	46324.7	45724.0	502.88 ug/L	502.88 ppb	14:22:52
1	Co 228.616†	25275.2	24914.7	505.58 ug/L	505.58 ppb	14:22:52
1	Cr 267.716†	45862.6	44989.2	499.75 ug/L	499.75 ppb	14:22:52
1	Cu 324.752†	176966.9	167499.1	499.66 ug/L	499.66 ppb	14:22:52
1	Mn 257.610†	467219.8	458696.9	503.34 ug/L	503.34 ppb	14:22:47
1	Mo 202.031†	7236.7	7089.7	495.15 ug/L	495.15 ppb	14:23:12
1	Ni 231.604†	20743.8	20317.5	502.49 ug/L	502.49 ppb	14:22:52
1	P 214.914†	4417.3	4120.5	2356.5 ug/L	2356.5 ppb	14:23:12
1	Pb 220.353†	4087.9	4079.2	495.36 ug/L	495.36 ppb	14:23:12
1	S 181.975 Axial†	778.0	720.6	1001.9 ug/L	1001.9 ppb	14:23:12
1	Sb 206.836†	1517.6	1457.8	511.97 ug/L	511.97 ppb	14:23:12
1	Se 196.026†	773.5	792.1	515.93 ug/L	515.93 ppb	14:23:12
1	Si 251.611†	81655.9	79780.8	2519.5 ug/L	2519.5 ppb	14:22:52
1	Sn 189.927†	2903.1	2851.1	497.61 ug/L	497.61 ppb	14:23:12
1	Ti 334.940†	321063.2	316835.9	507.20 ug/L	507.20 ppb	14:22:47
1	Tl 190.801†	1634.0	1639.8	498.50 ug/L	498.50 ppb	14:23:12
1	U 409.014†	15852.9	17442.2	511.77 ug/L	511.77 ppb	14:22:52
1	V 292.402†	73503.8	73590.3	505.73 ug/L	505.73 ppb	14:22:52
1	Zn 213.857†	55427.3	53842.5	501.06 ug/L	501.06 ppb	14:22:52
1	SiO2†	81180.7	79315.4	5336.2 ug/L	5336.2 ppb	14:24:20
2	Sc Radial	5176.4	5176.4	101 %		14:21:54
2	Y RADIAL	5452.2	5452.2	99.03 %		14:21:54
2	Al 396.153Radial†	6456.1	6393.1	5088.7 ug/L	5088.7 ppb	14:21:54
2	Ca 317.933Radial†	3211.5	3157.8	5097.6 ug/L	5097.6 ppb	14:22:14
2	Fe 238.204 Radial†	618.6	600.4	5120.6 ug/L	5120.6 ppb	14:22:14
2	K 766.490 Radial†	30174.4	27339.2	4972.3 ug/L	4972.3 ppb	14:21:54
2	Mg 279.077 IEC†	159.7	155.0	5145.5 ug/L	5145.5 ppb	14:22:14
2	Na 589.592 Radial†	33142.9	34096.3	9773.7 ug/L	9773.7 ppb	14:21:54
2	Sr 421.552†	78439.6	77588.5	495.33 ug/L	495.33 ppb	14:21:54
2	Sc 361.383	867072.7	867072.7	101.05 %		14:23:18
2	Y 371.029	719981.4	719981.4	98.944 %		14:23:18
2	Ag 328.068†	111601.1	110085.4	508.28 ug/L	508.28 ppb	14:23:23
2	As 188.979†	1162.1	1174.0	506.28 ug/L	506.28 ppb	14:23:43
2	B 249.677†	22148.6	22533.8	503.50 ug/L	503.50 ppb	14:23:23
2	Ba 233.527†	65520.9	64849.4	503.72 ug/L	503.72 ppb	14:23:23
2	Be 313.107†	1344931.5	1335444.3	505.72 ug/L	505.72 ppb	14:23:18
2	Cd 226.502†	46147.6	45870.2	504.49 ug/L	504.49 ppb	14:23:23
2	Co 228.616†	25163.1	24979.1	506.91 ug/L	506.91 ppb	14:23:23
2	Cr 267.716†	45730.3	45176.6	501.83 ug/L	501.83 ppb	14:23:23
2	Cu 324.752†	175475.6	167251.6	498.92 ug/L	498.92 ppb	14:23:23
2	Mn 257.610†	465509.3	460247.0	505.03 ug/L	505.03 ppb	14:23:18
2	Mo 202.031†	7285.4	7188.1	502.02 ug/L	502.02 ppb	14:23:43
2	Ni 231.604†	20654.9	20373.4	503.87 ug/L	503.87 ppb	14:23:23

2	P 214.914†	4458.4	4191.8	2399.6 ug/L	2399.6 ppb	14:23:43
2	Pb 220.353†	4131.6	4150.9	504.04 ug/L	504.04 ppb	14:23:43
2	S 181.975 Axial†	783.6	731.6	1017.2 ug/L	1017.2 ppb	14:23:43
2	Sb 206.836†	1524.6	1475.3	518.18 ug/L	518.18 ppb	14:23:43
2	Se 196.026†	788.4	812.2	528.48 ug/L	528.48 ppb	14:23:43
2	Si 251.611†	81229.7	79925.8	2524.0 ug/L	2524.0 ppb	14:23:23
2	Sn 189.927†	2938.6	2906.4	507.24 ug/L	507.24 ppb	14:23:43
2	Ti 334.940†	319463.0	317480.8	508.23 ug/L	508.23 ppb	14:23:18
2	Tl 190.801†	1646.9	1663.9	505.81 ug/L	505.81 ppb	14:23:43
2	U 409.014†	15835.4	17534.9	514.50 ug/L	514.50 ppb	14:23:23
2	V 292.402†	73065.7	73666.9	506.36 ug/L	506.36 ppb	14:23:23
2	Zn 213.857†	55154.7	53957.5	502.13 ug/L	502.13 ppb	14:23:23
2	SiO2†	81481.7	80176.8	5394.1 ug/L	5394.1 ppb	14:24:25
3	Sc Radial	5144.3	5144.3	100 %		14:22:19
3	Y RADIAL	5481.7	5481.7	99.57 %		14:22:19
3	Al 396.153Radial†	6414.1	6391.2	5087.1 ug/L	5087.1 ppb	14:22:19
3	Ca 317.933Radial†	3193.9	3160.2	5101.4 ug/L	5101.4 ppb	14:22:39
3	Fe 238.204 Radial†	617.3	602.9	5142.1 ug/L	5142.1 ppb	14:22:39
3	K 766.490 Radial†	30188.8	27540.3	5009.0 ug/L	5009.0 ppb	14:22:19
3	Mg 279.077 IEC†	161.4	157.6	5234.9 ug/L	5234.9 ppb	14:22:39
3	Na 589.592 Radial†	32996.6	34155.8	9790.8 ug/L	9790.8 ppb	14:22:19
3	Sr 421.552†	78218.4	77853.9	497.02 ug/L	497.02 ppb	14:22:19
3	Sc 361.383	861996.1	861996.1	100.46 %		14:23:49
3	Y 371.029	715819.1	715819.1	98.372 %		14:23:49
3	Ag 328.068†	113080.8	112208.9	518.06 ug/L	518.06 ppb	14:23:54
3	As 188.979†	1160.3	1179.0	508.41 ug/L	508.41 ppb	14:24:14
3	B 249.677†	22511.2	23023.8	514.47 ug/L	514.47 ppb	14:23:54
3	Ba 233.527†	66297.4	66004.1	512.69 ug/L	512.69 ppb	14:23:54
3	Be 313.107†	1335323.4	1333718.5	505.06 ug/L	505.06 ppb	14:23:49
3	Cd 226.502†	46770.0	46758.7	514.27 ug/L	514.27 ppb	14:23:54
3	Co 228.616†	25469.5	25430.8	516.08 ug/L	516.08 ppb	14:23:54
3	Cr 267.716†	46078.3	45789.6	508.64 ug/L	508.64 ppb	14:23:54
3	Cu 324.752†	177871.1	170658.9	509.08 ug/L	509.08 ppb	14:23:54
3	Mn 257.610†	462603.6	460067.6	504.83 ug/L	504.83 ppb	14:23:49
3	Mo 202.031†	7271.2	7216.4	503.99 ug/L	503.99 ppb	14:24:14
3	Ni 231.604†	20978.9	20816.4	514.83 ug/L	514.83 ppb	14:23:54
3	P 214.914†	4432.9	4192.4	2397.5 ug/L	2397.5 ppb	14:24:14
3	Pb 220.353†	4121.4	4164.9	505.73 ug/L	505.73 ppb	14:24:14
3	S 181.975 Axial†	778.2	730.8	1016.1 ug/L	1016.1 ppb	14:24:14
3	Sb 206.836†	1531.7	1491.3	523.67 ug/L	523.67 ppb	14:24:14
3	Se 196.026†	776.2	804.7	523.81 ug/L	523.81 ppb	14:24:14
3	Si 251.611†	82138.0	81303.4	2567.6 ug/L	2567.6 ppb	14:23:54
3	Sn 189.927†	2916.9	2901.9	506.46 ug/L	506.46 ppb	14:24:14
3	Ti 334.940†	317265.8	317155.5	507.70 ug/L	507.70 ppb	14:23:49
3	Tl 190.801†	1629.8	1656.5	503.50 ug/L	503.50 ppb	14:24:14
3	U 409.014†	15980.1	17771.2	521.44 ug/L	521.44 ppb	14:23:54
3	V 292.402†	74033.3	75056.0	515.82 ug/L	515.82 ppb	14:23:54
3	Zn 213.857†	55830.3	54951.5	511.38 ug/L	511.38 ppb	14:23:54
3	SiO2†	82582.4	81747.4	5500.0 ug/L	5500.0 ppb	14:24:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867421.9	101.09 %	0.654			0.65%
Sc Radial	5162.0	101 %	0.3			0.32%
Y 371.029	720171.4	98.970 %	0.6116			0.62%
Y RADIAL	5470.9	99.37 %	0.296			0.30%
Ag 328.068†	110729.3	511.25 ug/L	5.914	511.25 ppb	5.914	1.16%
QC value within limits for Ag 328.068 Recovery = 102.25%						
Al 396.153Radial†	6397.0	5091.9 ug/L	6.99	5091.9 ppb	6.99	0.14%
QC value within limits for Al 396.153Radial Recovery = 101.84%						
As 188.979†	1171.9	505.39 ug/L	3.553	505.39 ppb	3.553	0.70%
QC value within limits for As 188.979 Recovery = 101.08%						
B 249.677†	22673.4	506.62 ug/L	6.842	506.62 ppb	6.842	1.35%
QC value within limits for B 249.677 Recovery = 101.32%						
Ba 233.527†	65200.8	506.45 ug/L	5.416	506.45 ppb	5.416	1.07%
QC value within limits for Ba 233.527 Recovery = 101.29%						
Be 313.107†	1334418.8	505.33 ug/L	0.344	505.33 ppb	0.344	0.07%
QC value within limits for Be 313.107 Recovery = 101.07%						
Ca 317.933Radial†	3166.2	5111.1 ug/L	20.17	5111.1 ppb	20.17	0.39%

QC value within limits for Ca 317.933Radial Recovery = 102.22%							
Cd 226.502†	46117.6	507.21 ug/L	6.166	507.21 ppb	6.166	1.22%	
QC value within limits for Cd 226.502 Recovery = 101.44%							
Co 228.616†	25108.2	509.52 ug/L	5.716	509.52 ppb	5.716	1.12%	
QC value within limits for Co 228.616 Recovery = 101.90%							
Cr 267.716†	45318.5	503.41 ug/L	4.650	503.41 ppb	4.650	0.92%	
QC value within limits for Cr 267.716 Recovery = 100.68%							
Cu 324.752†	168469.9	502.55 ug/L	5.665	502.55 ppb	5.665	1.13%	
QC value within limits for Cu 324.752 Recovery = 100.51%							
Fe 238.204 Radial†	602.9	5141.8 ug/L	21.12	5141.8 ppb	21.12	0.41%	
QC value within limits for Fe 238.204 Radial Recovery = 102.84%							
K 766.490 Radial†	27461.0	4994.5 ug/L	19.50	4994.5 ppb	19.50	0.39%	
QC value within limits for K 766.490 Radial Recovery = 99.89%							
Mg 279.077 IEC†	156.2	5188.1 ug/L	44.84	5188.1 ppb	44.84	0.86%	
QC value within limits for Mg 279.077 IEC Recovery = 103.76%							
Mn 257.610†	459670.5	504.40 ug/L	0.928	504.40 ppb	0.928	0.18%	
QC value within limits for Mn 257.610 Recovery = 100.88%							
Mo 202.031†	7164.8	500.39 ug/L	4.640	500.39 ppb	4.640	0.93%	
QC value within limits for Mo 202.031 Recovery = 100.08%							
Na 589.592 Radial†	34199.8	9803.4 ug/L	37.58	9803.4 ppb	37.58	0.38%	
QC value within limits for Na 589.592 Radial Recovery = 98.03%							
Ni 231.604†	20502.4	507.06 ug/L	6.761	507.06 ppb	6.761	1.33%	
QC value within limits for Ni 231.604 Recovery = 101.41%							
P 214.914†	4168.2	2384.5 ug/L	24.31	2384.5 ppb	24.31	1.02%	
QC value within limits for P 214.914 Recovery = 95.38%							
Pb 220.353†	4131.7	501.71 ug/L	5.568	501.71 ppb	5.568	1.11%	
QC value within limits for Pb 220.353 Recovery = 100.34%							
S 181.975 Axial†	727.7	1011.7 ug/L	8.55	1011.7 ppb	8.55	0.84%	
QC value within limits for S 181.975 Axial Recovery = 101.17%							
Sb 206.836†	1474.8	517.94 ug/L	5.850	517.94 ppb	5.850	1.13%	
QC value within limits for Sb 206.836 Recovery = 103.59%							
Se 196.026†	803.0	522.74 ug/L	6.344	522.74 ppb	6.344	1.21%	
QC value within limits for Se 196.026 Recovery = 104.55%							
Si 251.611†	80336.7	2537.0 ug/L	26.56	2537.0 ppb	26.56	1.05%	
QC value within limits for Si 251.611 Recovery = 101.48%							
Sn 189.927†	2886.5	503.77 ug/L	5.345	503.77 ppb	5.345	1.06%	
QC value within limits for Sn 189.927 Recovery = 100.75%							
Sr 421.552†	77831.7	496.88 ug/L	1.487	496.88 ppb	1.487	0.30%	
QC value within limits for Sr 421.552 Recovery = 99.38%							
Ti 334.940†	317157.4	507.71 ug/L	0.515	507.71 ppb	0.515	0.10%	
QC value within limits for Ti 334.940 Recovery = 101.54%							
Tl 190.801†	1653.4	502.60 ug/L	3.736	502.60 ppb	3.736	0.74%	
QC value within limits for Tl 190.801 Recovery = 100.52%							
U 409.014†	17582.8	515.91 ug/L	4.985	515.91 ppb	4.985	0.97%	
QC value within limits for U 409.014 Recovery = 103.18%							
V 292.402†	74104.4	509.30 ug/L	5.650	509.30 ppb	5.650	1.11%	
QC value within limits for V 292.402 Recovery = 101.86%							
Zn 213.857†	54250.5	504.85 ug/L	5.674	504.85 ppb	5.674	1.12%	
QC value within limits for Zn 213.857 Recovery = 100.97%							
SiO2†	80413.2	5410.1 ug/L	83.06	5410.1 ppb	83.06	1.54%	
QC value within limits for SiO2 Recovery = 101.17%							
All analyte(s) passed QC.							

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/12/2010 14:26:39

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	5299.8	5299.8	103 %		14:28:32
1	Y RADIAL	5679.7	5679.7	103.2 %		14:28:32
1	Al 396.153Radial†	11.9	17.6	14.098 ug/L	14.098 ppb	14:28:32
1	Ca 317.933Radial†	21.5	1.6	2.5893 ug/L	2.5893 ppb	14:28:52
1	Fe 238.204 Radial†	10.3	-1.6	-13.893 ug/L	-13.893 ppb	14:28:52
1	K 766.490 Radial†	2753.6	149.1	27.129 ug/L	27.129 ppb	14:28:32
1	Mg 279.077 IEC†	2.9	-0.3	-8.9269 ug/L	-8.9269 ppb	14:28:52
1	Na 589.592 Radial†	-1156.5	191.4	54.864 ug/L	54.864 ppb	14:28:32
1	Sr 421.552†	-7.5	-17.0	-0.1085 ug/L	-0.1085 ppb	14:28:32
1	Sc 361.383	888071.5	888071.5	103.50 %		14:29:49
1	Y 371.029	748407.4	748407.4	102.85 %		14:29:49
1	Ag 328.068†	283.3	-83.3	-0.3822 ug/L	-0.3822 ppb	14:29:54
1	As 188.979†	-13.7	10.7	4.5805 ug/L	4.5805 ppb	14:30:14
1	B 249.677†	-271.8	352.5	7.9130 ug/L	7.9130 ppb	14:30:14
1	Ba 233.527†	-23.5	-14.2	-0.1079 ug/L	-0.1079 ppb	14:30:14
1	Be 313.107†	-4601.7	28.4	0.0111 ug/L	0.0111 ppb	14:29:54
1	Cd 226.502†	-175.9	31.7	0.3497 ug/L	0.3497 ppb	14:30:14
1	Co 228.616†	-65.3	14.2	0.2878 ug/L	0.2878 ppb	14:30:14
1	Cr 267.716†	87.2	5.3	0.0598 ug/L	0.0598 ppb	14:30:14
1	Cu 324.752†	6455.3	-165.2	-0.4938 ug/L	-0.4938 ppb	14:29:54
1	Mn 257.610†	426.6	-17.6	-0.0203 ug/L	-0.0203 ppb	14:30:14
1	Mo 202.031†	23.0	0.6	0.0397 ug/L	0.0397 ppb	14:30:14
1	Ni 231.604†	63.0	-6.1	-0.1515 ug/L	-0.1515 ppb	14:30:14
1	P 214.914†	242.3	13.8	8.4286 ug/L	8.4286 ppb	14:30:14
1	Pb 220.353†	-48.9	15.0	1.8164 ug/L	1.8164 ppb	14:30:14
1	S 181.975 Axial†	40.9	-4.3	-6.0330 ug/L	-6.0330 ppb	14:30:14
1	Sb 206.836†	54.2	19.0	6.4705 ug/L	6.4705 ppb	14:30:14
1	Se 196.026†	-25.2	7.7	4.8146 ug/L	4.8146 ppb	14:30:14
1	Si 251.611†	496.7	19.2	0.6084 ug/L	0.6084 ppb	14:30:14
1	Sn 189.927†	13.9	11.8	2.0503 ug/L	2.0503 ppb	14:30:14
1	Ti 334.940†	-1261.8	115.0	0.1850 ug/L	0.1850 ppb	14:29:54
1	Tl 190.801†	-37.6	-2.3	-0.6916 ug/L	-0.6916 ppb	14:30:14
1	U 409.014†	-1918.5	10.2	0.3024 ug/L	0.3024 ppb	14:29:49
1	V 292.402†	-1248.6	153.3	1.0425 ug/L	1.0425 ppb	14:29:54
1	Zn 213.857†	659.1	12.2	0.1171 ug/L	0.1171 ppb	14:30:14
1	SiO2†	516.6	40.2	2.7077 ug/L	2.7077 ppb	14:31:20
2	Sc Radial	4945.9	4945.9	96.6 %		14:28:57
2	Y RADIAL	5290.9	5290.9	96.10 %		14:28:57
2	Al 396.153Radial†	-35.8	-30.8	-24.671 ug/L	-24.671 ppb	14:28:57
2	Ca 317.933Radial†	15.9	-2.7	-4.3682 ug/L	-4.3682 ppb	14:29:17
2	Fe 238.204 Radial†	11.3	0.2	1.7015 ug/L	1.7015 ppb	14:29:17
2	K 766.490 Radial†	2731.1	316.2	57.575 ug/L	57.575 ppb	14:28:57
2	Mg 279.077 IEC†	-1.3	-4.4	-145.00 ug/L	-145.00 ppb	14:29:17
2	Na 589.592 Radial†	-1145.4	123.0	35.258 ug/L	35.258 ppb	14:28:57
2	Sr 421.552†	9.2	-0.2	-0.0011 ug/L	-0.0011 ppb	14:28:57
2	Sc 361.383	873629.9	873629.9	101.81 %		14:30:19
2	Y 371.029	737481.5	737481.5	101.35 %		14:30:19
2	Ag 328.068†	309.4	-53.2	-0.2409 ug/L	-0.2409 ppb	14:30:24
2	As 188.979†	-17.3	7.0	2.9863 ug/L	2.9863 ppb	14:30:44
2	B 249.677†	-280.2	339.9	7.6283 ug/L	7.6283 ppb	14:30:44
2	Ba 233.527†	-6.4	2.3	0.0197 ug/L	0.0197 ppb	14:30:44
2	Be 313.107†	-4742.9	-183.8	-0.0691 ug/L	-0.0691 ppb	14:30:24
2	Cd 226.502†	-165.9	38.7	0.4254 ug/L	0.4254 ppb	14:30:44
2	Co 228.616†	-67.1	11.4	0.2303 ug/L	0.2303 ppb	14:30:44
2	Cr 267.716†	101.9	21.1	0.2345 ug/L	0.2345 ppb	14:30:44
2	Cu 324.752†	6518.0	-0.5	-0.0021 ug/L	-0.0021 ppb	14:30:24
2	Mn 257.610†	382.2	-54.5	-0.0536 ug/L	-0.0536 ppb	14:30:44
2	Mo 202.031†	22.3	0.3	0.0219 ug/L	0.0219 ppb	14:30:44
2	Ni 231.604†	46.0	-21.9	-0.5412 ug/L	-0.5412 ppb	14:30:44

2	P 214.914†	233.7	9.2	5.5331 ug/L	5.5331 ppb	14:30:44
2	Pb 220.353†	-52.7	10.4	1.2581 ug/L	1.2581 ppb	14:30:44
2	S 181.975 Axial†	53.4	8.6	11.966 ug/L	11.966 ppb	14:30:44
2	Sb 206.836†	50.5	16.2	5.5171 ug/L	5.5171 ppb	14:30:44
2	Se 196.026†	-37.1	-4.4	-2.7470 ug/L	-2.7470 ppb	14:30:44
2	Si 251.611†	494.9	25.4	0.8047 ug/L	0.8047 ppb	14:30:44
2	Sn 189.927†	12.7	10.8	1.8755 ug/L	1.8755 ppb	14:30:44
2	Ti 334.940†	-1260.3	96.3	0.1648 ug/L	0.1648 ppb	14:30:24
2	Tl 190.801†	-42.0	-7.2	-2.1661 ug/L	-2.1661 ppb	14:30:44
2	U 409.014†	-1848.9	47.9	1.4087 ug/L	1.4087 ppb	14:30:19
2	V 292.402†	-1262.5	119.7	0.8110 ug/L	0.8110 ppb	14:30:24
2	Zn 213.857†	658.4	22.0	0.2100 ug/L	0.2100 ppb	14:30:44
2	SiO2†	528.1	59.6	4.0211 ug/L	4.0211 ppb	14:31:25
3	Sc Radial	5301.5	5301.5	104 %		14:29:22
3	Y RADIAL	5668.5	5668.5	103.0 %		14:29:22
3	Al 396.153Radial†	4.5	10.5	8.4290 ug/L	8.4290 ppb	14:29:22
3	Ca 317.933Radial†	18.3	-1.5	-2.4806 ug/L	-2.4806 ppb	14:29:42
3	Fe 238.204 Radial†	8.9	-3.0	-25.270 ug/L	-25.270 ppb	14:29:42
3	K 766.490 Radial†	2809.8	202.6	36.868 ug/L	36.868 ppb	14:29:22
3	Mg 279.077 IEC†	2.2	-0.9	-31.388 ug/L	-31.388 ppb	14:29:42
3	Na 589.592 Radial†	-1149.7	198.3	56.846 ug/L	56.846 ppb	14:29:22
3	Sr 421.552†	3.4	-6.5	-0.0414 ug/L	-0.0414 ppb	14:29:22
3	Sc 361.383	861442.9	861442.9	100.39 %		14:30:49
3	Y 371.029	727136.0	727136.0	99.927 %		14:30:49
3	Ag 328.068†	239.3	-118.7	-0.5519 ug/L	-0.5519 ppb	14:30:54
3	As 188.979†	-23.2	0.8	0.3533 ug/L	0.3533 ppb	14:31:14
3	B 249.677†	-300.6	315.7	7.0900 ug/L	7.0900 ppb	14:31:14
3	Ba 233.527†	-16.0	-7.3	-0.0565 ug/L	-0.0565 ppb	14:31:14
3	Be 313.107†	-4683.0	-190.0	-0.0716 ug/L	-0.0716 ppb	14:30:54
3	Cd 226.502†	-171.9	30.4	0.3374 ug/L	0.3374 ppb	14:31:14
3	Co 228.616†	-79.1	-1.5	-0.0317 ug/L	-0.0317 ppb	14:31:14
3	Cr 267.716†	75.5	-3.8	-0.0424 ug/L	-0.0424 ppb	14:31:14
3	Cu 324.752†	6394.5	-32.9	-0.1005 ug/L	-0.1005 ppb	14:30:54
3	Mn 257.610†	399.7	-31.6	-0.0359 ug/L	-0.0359 ppb	14:31:14
3	Mo 202.031†	15.0	-6.7	-0.4685 ug/L	-0.4685 ppb	14:31:14
3	Ni 231.604†	42.2	-25.0	-0.6176 ug/L	-0.6176 ppb	14:31:14
3	P 214.914†	224.6	3.5	2.1308 ug/L	2.1308 ppb	14:31:14
3	Pb 220.353†	-49.6	12.8	1.5557 ug/L	1.5557 ppb	14:31:14
3	S 181.975 Axial†	53.6	9.5	13.225 ug/L	13.225 ppb	14:31:14
3	Sb 206.836†	43.1	9.5	3.2170 ug/L	3.2170 ppb	14:31:14
3	Se 196.026†	-35.2	-3.0	-1.9765 ug/L	-1.9765 ppb	14:31:14
3	Si 251.611†	509.2	46.6	1.4796 ug/L	1.4796 ppb	14:31:14
3	Sn 189.927†	7.1	5.4	0.9433 ug/L	0.9433 ppb	14:31:14
3	Ti 334.940†	-1276.6	62.6	0.1017 ug/L	0.1017 ppb	14:30:54
3	Tl 190.801†	-39.9	-5.7	-1.7167 ug/L	-1.7167 ppb	14:31:14
3	U 409.014†	-1812.7	58.2	1.7173 ug/L	1.7173 ppb	14:30:49
3	V 292.402†	-1303.5	61.4	0.4158 ug/L	0.4158 ppb	14:30:54
3	Zn 213.857†	664.8	37.6	0.3592 ug/L	0.3592 ppb	14:31:14
3	SiO2†	531.3	70.2	4.7488 ug/L	4.7488 ppb	14:31:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	874381.4	101.90 %	1.554			1.52%
Sc Radial	5182.4	101 %	4.0			3.95%
Y 371.029	737674.9	101.38 %	1.462			1.44%
Y RADIAL	5546.4	100.7 %	4.02			3.99%
Ag 328.068†	-85.1	-0.3917 ug/L	0.15572	-0.3917 ppb	0.15572	39.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.9	-0.7148 ug/L	20.93968	-0.7148 ppb	20.93968	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.2	2.6400 ug/L	2.13479	2.6400 ppb	2.13479	80.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	336.0	7.5437 ug/L	0.41796	7.5437 ppb	0.41796	5.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-6.4	-0.0482 ug/L	0.06422	-0.0482 ppb	0.06422	133.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-115.1	-0.0432 ug/L	0.04705	-0.0432 ppb	0.04705	108.99%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.9	-1.4198 ug/L	3.59799	-1.4198 ppb	3.59799	253.41%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	33.6	0.3708 ug/L	0.04764	0.3708 ppb	0.04764	12.85%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	8.0	0.1621 ug/L	0.17032	0.1621 ppb	0.17032	105.06%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	7.5	0.0840 ug/L	0.14005	0.0840 ppb	0.14005	166.78%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-66.2	-0.1988 ug/L	0.26015	-0.1988 ppb	0.26015	130.86%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-1.5	-12.487 ug/L	13.5407	-12.487 ppb	13.5407	108.44%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	222.6	40.524 ug/L	15.5489	40.524 ppb	15.5489	38.37%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-1.9	-61.771 ug/L	72.9468	-61.771 ppb	72.9468	118.09%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-34.6	-0.0366 ug/L	0.01667	-0.0366 ppb	0.01667	45.54%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	-1.9	-0.1356 ug/L	0.28845	-0.1356 ppb	0.28845	212.66%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	170.9	48.989 ug/L	11.9330	48.989 ppb	11.9330	24.36%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-17.6	-0.4368 ug/L	0.24997	-0.4368 ppb	0.24997	57.23%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	8.8	5.3642 ug/L	3.15228	5.3642 ppb	3.15228	58.77%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	12.7	1.5434 ug/L	0.27931	1.5434 ppb	0.27931	18.10%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	4.6	6.3861 ug/L	10.77363	6.3861 ppb	10.77363	168.71%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	14.9	5.0682 ug/L	1.67253	5.0682 ppb	1.67253	33.00%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	0.1	0.0303 ug/L	4.16112	0.0303 ppb	4.16112	>999.9%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	30.4	0.9642 ug/L	0.45699	0.9642 ppb	0.45699	47.40%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	9.3	1.6230 ug/L	0.59509	1.6230 ppb	0.59509	36.67%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-7.9	-0.0503 ug/L	0.05425	-0.0503 ppb	0.05425	107.78%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	91.3	0.1505 ug/L	0.04345	0.1505 ppb	0.04345	28.87%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	-5.0	-1.5248 ug/L	0.75574	-1.5248 ppb	0.75574	49.56%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	38.8	1.1428 ug/L	0.74398	1.1428 ppb	0.74398	65.10%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	111.5	0.7564 ug/L	0.31689	0.7564 ppb	0.31689	41.89%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	23.9	0.2288 ug/L	0.12214	0.2288 ppb	0.12214	53.40%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	56.7	3.8258 ug/L	1.03448	3.8258 ppb	1.03448	27.04%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 4
 Sample ID: 1202006002|937469|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 38
 Date Collected: 1/12/2010 14:33:40
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202006002|937469|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5383.4	5383.4	105 %		14:35:33
1	Y RADIAL	5725.6	5725.6	104.0 %		14:35:33
1	Al 396.153Radial†	-1.2	5.0	4.0078 ug/L	4.0078 ppb	14:35:33
1	Ca 317.933Radial†	15.3	-4.7	-7.5575 ug/L	-7.5575 ppb	14:35:53
1	Fe 238.204 Radial†	10.2	-1.8	-15.522 ug/L	-15.522 ppb	14:35:53
1	K 766.490 Radial†	2650.7	9.9	1.7826 ug/L	1.7826 ppb	14:35:33
1	Mg 279.077 IEC†	1.8	-1.3	-44.083 ug/L	-44.083 ppb	14:35:53
1	Na 589.592 Radial†	-1089.6	272.5	78.103 ug/L	78.103 ppb	14:35:33
1	Sr 421.552†	-5.2	-14.7	-0.0940 ug/L	-0.0940 ppb	14:35:33
1	Sc 361.383	866412.3	866412.3	100.97 %		14:36:50
1	Y 371.029	730578.7	730578.7	100.40 %		14:36:50
1	Ag 328.068†	234.4	-124.9	-0.5781 ug/L	-0.5781 ppb	14:36:50
1	As 188.979†	-7.7	16.3	6.9630 ug/L	6.9630 ppb	14:37:10
1	B 249.677†	-378.3	240.4	5.3999 ug/L	5.3999 ppb	14:37:10
1	Ba 233.527†	2.7	11.2	0.0877 ug/L	0.0877 ppb	14:37:10
1	Be 313.107†	-4660.5	-141.0	-0.0525 ug/L	-0.0525 ppb	14:36:50
1	Cd 226.502†	-199.4	4.1	0.0478 ug/L	0.0478 ppb	14:37:10
1	Co 228.616†	-94.9	-16.7	-0.3388 ug/L	-0.3388 ppb	14:37:10
1	Cr 267.716†	92.9	13.0	0.1437 ug/L	0.1437 ppb	14:37:10
1	Cu 324.752†	6451.5	-13.0	-0.0415 ug/L	-0.0415 ppb	14:36:50
1	Mn 257.610†	454.4	20.2	0.0225 ug/L	0.0225 ppb	14:37:10
1	Mo 202.031†	25.5	3.6	0.2499 ug/L	0.2499 ppb	14:37:10
1	Ni 231.604†	75.3	7.5	0.1860 ug/L	0.1860 ppb	14:37:10
1	P 214.914†	241.2	18.5	11.164 ug/L	11.164 ppb	14:37:10
1	Pb 220.353†	-58.1	4.6	0.5611 ug/L	0.5611 ppb	14:37:10
1	S 181.975 Axial†	56.4	12.0	16.692 ug/L	16.692 ppb	14:37:10
1	Sb 206.836†	66.9	32.9	11.185 ug/L	11.185 ppb	14:37:10
1	Se 196.026†	-29.4	2.9	1.8034 ug/L	1.8034 ppb	14:37:10
1	Si 251.611†	885.1	416.0	13.164 ug/L	13.164 ppb	14:37:10
1	Sn 189.927†	11.5	9.8	1.7016 ug/L	1.7016 ppb	14:37:10
1	Ti 334.940†	-1146.7	198.5	0.3188 ug/L	0.3188 ppb	14:36:50
1	Tl 190.801†	-39.4	-5.0	-1.5021 ug/L	-1.5021 ppb	14:37:10
1	U 409.014†	-1766.0	114.9	3.3829 ug/L	3.3829 ppb	14:36:50
1	V 292.402†	-1289.5	82.7	0.5719 ug/L	0.5719 ppb	14:36:50
1	Zn 213.857†	727.6	95.9	0.9009 ug/L	0.9009 ppb	14:37:10
1	SiO2†	864.5	397.2	26.781 ug/L	26.781 ppb	14:38:06
2	Sc Radial	5404.4	5404.4	106 %		14:35:58
2	Y RADIAL	5776.1	5776.1	104.9 %		14:35:58
2	Al 396.153Radial†	0.5	6.7	5.3648 ug/L	5.3648 ppb	14:35:58
2	Ca 317.933Radial†	15.1	-4.9	-7.9004 ug/L	-7.9004 ppb	14:36:18
2	Fe 238.204 Radial†	8.8	-3.3	-27.654 ug/L	-27.654 ppb	14:36:18
2	K 766.490 Radial†	2647.0	-3.4	-0.6403 ug/L	-0.6403 ppb	14:35:58
2	Mg 279.077 IEC†	1.8	-1.3	-43.639 ug/L	-43.639 ppb	14:36:18
2	Na 589.592 Radial†	-1123.8	244.1	69.957 ug/L	69.957 ppb	14:35:58
2	Sr 421.552†	35.4	23.8	0.1519 ug/L	0.1519 ppb	14:35:58
2	Sc 361.383	865037.1	865037.1	100.81 %		14:37:15
2	Y 371.029	729112.0	729112.0	100.20 %		14:37:15
2	Ag 328.068†	214.3	-144.5	-0.6787 ug/L	-0.6787 ppb	14:37:15
2	As 188.979†	-14.2	9.9	4.2280 ug/L	4.2280 ppb	14:37:35
2	B 249.677†	-357.8	260.2	5.8449 ug/L	5.8449 ppb	14:37:35
2	Ba 233.527†	-18.6	-9.9	-0.0786 ug/L	-0.0786 ppb	14:37:35
2	Be 313.107†	-4673.4	-161.1	-0.0603 ug/L	-0.0603 ppb	14:37:15
2	Cd 226.502†	-189.4	13.8	0.1554 ug/L	0.1554 ppb	14:37:35
2	Co 228.616†	-79.4	-1.5	-0.0321 ug/L	-0.0321 ppb	14:37:35
2	Cr 267.716†	82.1	2.5	0.0242 ug/L	0.0242 ppb	14:37:35
2	Cu 324.752†	6463.1	8.6	0.0209 ug/L	0.0209 ppb	14:37:15
2	Mn 257.610†	445.5	12.1	0.0123 ug/L	0.0123 ppb	14:37:35
2	Mo 202.031†	16.9	-4.9	-0.3435 ug/L	-0.3435 ppb	14:37:35
2	Ni 231.604†	64.7	-2.9	-0.0711 ug/L	-0.0711 ppb	14:37:35

2	P 214.914†	233.9	11.7	7.0354 ug/L	7.0354 ppb	14:37:35
2	Pb 220.353†	-52.0	10.6	1.2878 ug/L	1.2878 ppb	14:37:35
2	S 181.975 Axial†	44.8	0.6	0.8170 ug/L	0.8170 ppb	14:37:35
2	Sb 206.836†	66.8	32.8	11.149 ug/L	11.149 ppb	14:37:35
2	Se 196.026†	-16.6	15.6	9.7122 ug/L	9.7122 ppb	14:37:35
2	Si 251.611†	908.3	440.4	13.945 ug/L	13.945 ppb	14:37:35
2	Sn 189.927†	8.2	6.5	1.1282 ug/L	1.1282 ppb	14:37:35
2	Ti 334.940†	-1191.0	152.7	0.2443 ug/L	0.2443 ppb	14:37:15
2	Tl 190.801†	-33.9	0.4	0.1286 ug/L	0.1286 ppb	14:37:35
2	U 409.014†	-1667.0	210.3	6.1941 ug/L	6.1941 ppb	14:37:15
2	V 292.402†	-1441.9	-70.5	-0.4678 ug/L	-0.4678 ppb	14:37:15
2	Zn 213.857†	743.0	112.3	1.0577 ug/L	1.0577 ppb	14:37:35
2	SiO2†	914.5	448.1	30.231 ug/L	30.231 ppb	14:38:11
3	Sc Radial	5337.3	5337.3	104 %		14:36:23
3	Y RADIAL	5725.0	5725.0	104.0 %		14:36:23
3	Al 396.153Radial†	7.5	13.4	10.712 ug/L	10.712 ppb	14:36:23
3	Ca 317.933Radial†	23.8	3.6	5.8464 ug/L	5.8464 ppb	14:36:43
3	Fe 238.204 Radial†	9.7	-2.3	-19.426 ug/L	-19.426 ppb	14:36:43
3	K 766.490 Radial†	2888.0	259.4	47.209 ug/L	47.209 ppb	14:36:23
3	Mg 279.077 IEC†	2.4	-0.8	-25.565 ug/L	-25.565 ppb	14:36:43
3	Na 589.592 Radial†	-1112.3	241.7	69.284 ug/L	69.284 ppb	14:36:23
3	Sr 421.552†	34.5	23.3	0.1490 ug/L	0.1490 ppb	14:36:23
3	Sc 361.383	873649.9	873649.9	101.82 %		14:37:40
3	Y 371.029	737752.3	737752.3	101.39 %		14:37:40
3	Ag 328.068†	217.8	-143.1	-0.6619 ug/L	-0.6619 ppb	14:37:40
3	As 188.979†	-9.4	14.7	6.2999 ug/L	6.2999 ppb	14:38:00
3	B 249.677†	-375.0	246.8	5.5426 ug/L	5.5426 ppb	14:38:00
3	Ba 233.527†	-16.3	-7.4	-0.0580 ug/L	-0.0580 ppb	14:38:00
3	Be 313.107†	-4658.6	-100.9	-0.0375 ug/L	-0.0375 ppb	14:37:40
3	Cd 226.502†	-175.8	29.0	0.3204 ug/L	0.3204 ppb	14:38:00
3	Co 228.616†	-72.5	6.0	0.1218 ug/L	0.1218 ppb	14:38:00
3	Cr 267.716†	77.3	-3.1	-0.0341 ug/L	-0.0341 ppb	14:38:00
3	Cu 324.752†	6424.5	-92.5	-0.2768 ug/L	-0.2768 ppb	14:37:40
3	Mn 257.610†	434.1	-3.5	-0.0047 ug/L	-0.0047 ppb	14:38:00
3	Mo 202.031†	21.5	-0.5	-0.0366 ug/L	-0.0366 ppb	14:38:00
3	Ni 231.604†	59.2	-8.8	-0.2190 ug/L	-0.2190 ppb	14:38:00
3	P 214.914†	237.4	12.8	7.7981 ug/L	7.7981 ppb	14:38:00
3	Pb 220.353†	-68.8	-5.4	-0.6515 ug/L	-0.6515 ppb	14:38:00
3	S 181.975 Axial†	51.1	6.4	8.8412 ug/L	8.8412 ppb	14:38:00
3	Sb 206.836†	52.8	18.4	6.2868 ug/L	6.2868 ppb	14:38:00
3	Se 196.026†	-25.5	7.0	4.3539 ug/L	4.3539 ppb	14:38:00
3	Si 251.611†	887.3	410.8	13.005 ug/L	13.005 ppb	14:38:00
3	Sn 189.927†	13.7	11.8	2.0583 ug/L	2.0583 ppb	14:38:00
3	Ti 334.940†	-1174.5	180.6	0.2922 ug/L	0.2922 ppb	14:37:40
3	Tl 190.801†	-36.4	-1.7	-0.4996 ug/L	-0.4996 ppb	14:38:00
3	U 409.014†	-1911.4	-13.4	-0.3921 ug/L	-0.3921 ppb	14:37:40
3	V 292.402†	-1363.5	20.5	0.1403 ug/L	0.1403 ppb	14:37:40
3	Zn 213.857†	732.7	95.0	0.8956 ug/L	0.8956 ppb	14:38:00
3	SiO2†	878.7	404.0	27.248 ug/L	27.248 ppb	14:38:16

Mean Data: 1202006002|937469|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	868366.4	101.20 %	0.539			0.53%
Sc Radial	5375.1	105 %	0.7			0.64%
Y 371.029	732481.0	100.66 %	0.635			0.63%
Y RADIAL	5742.2	104.3 %	0.53			0.51%
Ag 328.068†	-137.5	-0.6396 ug/L	0.05387	-0.6396 ppb	0.05387	8.42%
Al 396.153Radial†	8.4	6.6949 ug/L	3.54456	6.6949 ppb	3.54456	52.94%
As 188.979†	13.6	5.8303 ug/L	1.42668	5.8303 ppb	1.42668	24.47%
B 249.677†	249.1	5.5958 ug/L	0.22724	5.5958 ppb	0.22724	4.06%
Ba 233.527†	-2.0	-0.0163 ug/L	0.09061	-0.0163 ppb	0.09061	556.01%
Be 313.107†	-134.3	-0.0501 ug/L	0.01161	-0.0501 ppb	0.01161	23.17%
Ca 317.933Radial†	-2.0	-3.2038 ug/L	7.83957	-3.2038 ppb	7.83957	244.69%
Cd 226.502†	15.6	0.1745 ug/L	0.13732	0.1745 ppb	0.13732	78.67%
Co 228.616†	-4.1	-0.0830 ug/L	0.23452	-0.0830 ppb	0.23452	282.42%
Cr 267.716†	4.2	0.0446 ug/L	0.09066	0.0446 ppb	0.09066	203.32%
Cu 324.752†	-32.3	-0.0991 ug/L	0.15698	-0.0991 ppb	0.15698	158.35%
Fe 238.204 Radial†	-2.5	-20.867 ug/L	6.1929	-20.867 ppb	6.1929	29.68%
K 766.490 Radial†	88.7	16.117 ug/L	26.9535	16.117 ppb	26.9535	167.24%

Mg 279.077 IEC†	-1.1	-37.762 ug/L	10.5658	-37.762 ppb	10.5658	27.98%
Mn 257.610†	9.6	0.0100 ug/L	0.01371	0.0100 ppb	0.01371	136.69%
Mo 202.031†	-0.6	-0.0434 ug/L	0.29677	-0.0434 ppb	0.29677	683.48%
Na 589.592 Radial†	252.7	72.448 ug/L	4.9092	72.448 ppb	4.9092	6.78%
Ni 231.604†	-1.4	-0.0347 ug/L	0.20495	-0.0347 ppb	0.20495	590.79%
P 214.914†	14.3	8.6657 ug/L	2.19663	8.6657 ppb	2.19663	25.35%
Pb 220.353†	3.3	0.3992 ug/L	0.97976	0.3992 ppb	0.97976	245.46%
S 181.975 Axial†	6.3	8.7834 ug/L	7.93772	8.7834 ppb	7.93772	90.37%
Sb 206.836†	28.0	9.5402 ug/L	2.81762	9.5402 ppb	2.81762	29.53%
Se 196.026†	8.5	5.2898 ug/L	4.03664	5.2898 ppb	4.03664	76.31%
Si 251.611†	422.4	13.371 ug/L	0.5031	13.371 ppb	0.5031	3.76%
Sn 189.927†	9.4	1.6294 ug/L	0.46925	1.6294 ppb	0.46925	28.80%
Sr 421.552†	10.8	0.0689 ug/L	0.14110	0.0689 ppb	0.14110	204.64%
Ti 334.940†	177.2	0.2851 ug/L	0.03778	0.2851 ppb	0.03778	13.25%
Tl 190.801†	-2.1	-0.6243 ug/L	0.82247	-0.6243 ppb	0.82247	131.74%
U 409.014†	103.9	3.0616 ug/L	3.30480	3.0616 ppb	3.30480	107.94%
V 292.402†	10.9	0.0814 ug/L	0.52235	0.0814 ppb	0.52235	641.38%
Zn 213.857†	101.1	0.9514 ug/L	0.09211	0.9514 ppb	0.09211	9.68%
SiO2†	416.4	28.086 ug/L	1.8714	28.086 ppb	1.8714	6.66%

Sequence No.: 5

Sample ID: 1202006003|937469|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 1/12/2010 14:40:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006003|937469|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5335.7	5335.7	104 %		14:42:19
1	Y RADIAL	5592.4	5592.4	101.6 %		14:42:19
1	Al 396.153Radial†	6663.6	6401.5	5095.5 ug/L	5095.5 ppb	14:42:19
1	Ca 317.933Radial†	3322.7	3169.7	5116.7 ug/L	5116.7 ppb	14:42:39
1	Fe 238.204 Radial†	646.2	608.6	5189.6 ug/L	5189.6 ppb	14:42:39
1	K 766.490 Radial†	30854.2	27100.5	4930.7 ug/L	4930.7 ppb	14:42:19
1	Mg 279.077 IEC†	169.0	159.2	5286.1 ug/L	5286.1 ppb	14:42:39
1	Na 589.592 Radial†	17385.3	17994.3	5158.1 ug/L	5158.1 ppb	14:42:19
1	Sr 421.552†	82889.1	79542.2	507.80 ug/L	507.80 ppb	14:42:19
1	Sc 361.383	880752.0	880752.0	102.64 %		14:43:38
1	Y 371.029	731741.5	731741.5	100.56 %		14:43:38
1	Ag 328.068†	112822.3	109559.9	505.92 ug/L	505.92 ppb	14:43:38
1	As 188.979†	1182.7	1176.2	507.32 ug/L	507.32 ppb	14:43:58
1	B 249.677†	22361.7	22401.0	500.54 ug/L	500.54 ppb	14:43:38
1	Ba 233.527†	68229.7	66481.3	516.38 ug/L	516.38 ppb	14:43:38
1	Be 313.107†	1379264.0	1348220.8	510.56 ug/L	510.56 ppb	14:43:38
1	Cd 226.502†	46562.8	45565.4	501.13 ug/L	501.13 ppb	14:43:38
1	Co 228.616†	25047.5	24479.7	496.76 ug/L	496.76 ppb	14:43:58
1	Cr 267.716†	46415.8	45141.5	501.45 ug/L	501.45 ppb	14:43:38
1	Cu 324.752†	182834.9	171724.3	512.26 ug/L	512.26 ppb	14:43:38
1	Mn 257.610†	478744.6	465986.5	511.33 ug/L	511.33 ppb	14:43:38
1	Mo 202.031†	7378.3	7166.7	500.52 ug/L	500.52 ppb	14:43:58
1	Ni 231.604†	20961.7	20354.8	503.42 ug/L	503.42 ppb	14:43:58
1	P 214.914†	1265.0	1012.1	487.58 ug/L	487.58 ppb	14:43:58
1	Pb 220.353†	4221.9	4175.4	506.99 ug/L	506.99 ppb	14:43:58
1	S 181.975 Axial†	3818.3	3676.1	5114.9 ug/L	5114.9 ppb	14:43:58
1	Sb 206.836†	1597.3	1522.7	534.44 ug/L	534.44 ppb	14:43:58
1	Se 196.026†	763.7	776.0	505.88 ug/L	505.88 ppb	14:43:58
1	Si 251.611†	163572.4	158899.5	5024.0 ug/L	5024.0 ppb	14:43:38
1	Sn 189.927†	3060.6	2980.1	520.07 ug/L	520.07 ppb	14:43:58
1	Ti 334.940†	328862.9	321728.4	515.02 ug/L	515.02 ppb	14:43:38
1	Tl 190.801†	1683.4	1674.2	509.02 ug/L	509.02 ppb	14:43:58
1	U 409.014†	16228.7	17674.7	518.61 ug/L	518.61 ppb	14:43:38
1	V 292.402†	75241.9	74664.0	513.09 ug/L	513.09 ppb	14:43:38
1	Zn 213.857†	54926.3	52887.2	492.06 ug/L	492.06 ppb	14:43:38
1	Si02†	164098.4	159413.6	10739 ug/L	10739 ppb	14:44:58
2	Sc Radial	5338.0	5338.0	104 %		14:42:44
2	Y RADIAL	5672.6	5672.6	103.0 %		14:42:44
2	Al 396.153Radial†	6771.1	6501.9	5175.8 ug/L	5175.8 ppb	14:42:44
2	Ca 317.933Radial†	3327.4	3172.9	5121.9 ug/L	5121.9 ppb	14:43:04
2	Fe 238.204 Radial†	647.2	609.3	5195.6 ug/L	5195.6 ppb	14:43:04
2	K 766.490 Radial†	31353.5	27567.0	5015.6 ug/L	5015.6 ppb	14:42:44
2	Mg 279.077 IEC†	165.5	155.7	5169.9 ug/L	5169.9 ppb	14:43:04
2	Na 589.592 Radial†	17479.6	18077.7	5182.0 ug/L	5182.0 ppb	14:42:44
2	Sr 421.552†	83817.4	80399.3	513.27 ug/L	513.27 ppb	14:42:44
2	Sc 361.383	884738.7	884738.7	103.11 %		14:44:05
2	Y 371.029	735003.8	735003.8	101.01 %		14:44:05
2	Ag 328.068†	113171.1	109402.9	505.19 ug/L	505.19 ppb	14:44:05
2	As 188.979†	1184.2	1172.5	505.71 ug/L	505.71 ppb	14:44:25
2	B 249.677†	22344.7	22286.3	497.97 ug/L	497.97 ppb	14:44:05
2	Ba 233.527†	68108.3	66064.0	513.15 ug/L	513.15 ppb	14:44:05
2	Be 313.107†	1381159.1	1344003.9	508.96 ug/L	508.96 ppb	14:44:05
2	Cd 226.502†	46606.9	45403.8	499.35 ug/L	499.35 ppb	14:44:05
2	Co 228.616†	25042.0	24364.4	494.42 ug/L	494.42 ppb	14:44:25
2	Cr 267.716†	46489.5	45009.3	499.98 ug/L	499.98 ppb	14:44:05
2	Cu 324.752†	183601.6	171665.2	512.08 ug/L	512.08 ppb	14:44:05
2	Mn 257.610†	479037.8	464169.2	509.34 ug/L	509.34 ppb	14:44:05
2	Mo 202.031†	7397.3	7152.7	499.55 ug/L	499.55 ppb	14:44:25
2	Ni 231.604†	20948.0	20249.6	500.81 ug/L	500.81 ppb	14:44:25

2	P 214.914†	1273.3	1014.6	489.14 ug/L	489.14 ppb	14:44:25
2	Pb 220.353†	4235.8	4170.4	506.40 ug/L	506.40 ppb	14:44:25
2	S 181.975 Axial†	3804.5	3646.0	5073.0 ug/L	5073.0 ppb	14:44:25
2	Sb 206.836†	1595.4	1513.9	531.43 ug/L	531.43 ppb	14:44:25
2	Se 196.026†	769.2	778.1	507.19 ug/L	507.19 ppb	14:44:25
2	Si 251.611†	163616.0	158223.8	5002.6 ug/L	5002.6 ppb	14:44:05
2	Sn 189.927†	3078.3	2983.8	520.72 ug/L	520.72 ppb	14:44:25
2	Ti 334.940†	329713.8	321110.0	514.04 ug/L	514.04 ppb	14:44:05
2	Tl 190.801†	1686.0	1669.2	507.52 ug/L	507.52 ppb	14:44:25
2	U 409.014†	16624.8	17987.5	527.82 ug/L	527.82 ppb	14:44:05
2	V 292.402†	75429.8	74516.0	512.09 ug/L	512.09 ppb	14:44:05
2	Zn 213.857†	55013.4	52730.6	490.61 ug/L	490.61 ppb	14:44:05
2	SiO2†	162403.4	157049.3	10579 ug/L	10579 ppb	14:45:04
3	Sc Radial	5284.0	5284.0	103 %		14:43:09
3	Y RADIAL	5616.0	5616.0	102.0 %		14:43:09
3	Al 396.153Radial†	6680.7	6480.7	5158.9 ug/L	5158.9 ppb	14:43:09
3	Ca 317.933Radial†	3317.9	3196.3	5159.6 ug/L	5159.6 ppb	14:43:29
3	Fe 238.204 Radial†	649.2	617.6	5266.0 ug/L	5266.0 ppb	14:43:29
3	K 766.490 Radial†	31075.7	27605.1	5022.6 ug/L	5022.6 ppb	14:43:09
3	Mg 279.077 IEC†	168.8	160.5	5330.9 ug/L	5330.9 ppb	14:43:29
3	Na 589.592 Radial†	17103.8	17884.9	5126.7 ug/L	5126.7 ppb	14:43:09
3	Sr 421.552†	82928.4	80359.4	513.02 ug/L	513.02 ppb	14:43:09
3	Sc 361.383	883269.7	883269.7	102.94 %		14:44:33
3	Y 371.029	733423.4	733423.4	100.79 %		14:44:33
3	Ag 328.068†	113090.6	109507.3	505.69 ug/L	505.69 ppb	14:44:33
3	As 188.979†	1173.8	1164.3	502.22 ug/L	502.22 ppb	14:44:53
3	B 249.677†	22365.9	22342.9	499.23 ug/L	499.23 ppb	14:44:33
3	Ba 233.527†	68238.6	66300.5	514.98 ug/L	514.98 ppb	14:44:33
3	Be 313.107†	1381407.3	1346472.8	509.90 ug/L	509.90 ppb	14:44:33
3	Cd 226.502†	46498.4	45373.5	499.01 ug/L	499.01 ppb	14:44:33
3	Co 228.616†	24927.1	24293.2	492.97 ug/L	492.97 ppb	14:44:53
3	Cr 267.716†	46490.8	45085.6	500.83 ug/L	500.83 ppb	14:44:33
3	Cu 324.752†	183399.7	171765.2	512.39 ug/L	512.39 ppb	14:44:33
3	Mn 257.610†	479111.3	465013.3	510.27 ug/L	510.27 ppb	14:44:33
3	Mo 202.031†	7382.9	7150.6	499.41 ug/L	499.41 ppb	14:44:53
3	Ni 231.604†	20814.1	20153.3	498.43 ug/L	498.43 ppb	14:44:53
3	P 214.914†	1243.5	987.8	472.87 ug/L	472.87 ppb	14:44:53
3	Pb 220.353†	4215.5	4157.4	504.83 ug/L	504.83 ppb	14:44:53
3	S 181.975 Axial†	3794.1	3642.0	5067.4 ug/L	5067.4 ppb	14:44:53
3	Sb 206.836†	1583.8	1505.1	528.41 ug/L	528.41 ppb	14:44:53
3	Se 196.026†	769.3	779.3	508.19 ug/L	508.19 ppb	14:44:53
3	Si 251.611†	163802.8	158669.2	5016.7 ug/L	5016.7 ppb	14:44:33
3	Sn 189.927†	3052.4	2963.7	517.22 ug/L	517.22 ppb	14:44:53
3	Ti 334.940†	329454.4	321389.8	514.48 ug/L	514.48 ppb	14:44:33
3	Tl 190.801†	1654.5	1641.4	499.13 ug/L	499.13 ppb	14:44:53
3	U 409.014†	16439.5	17834.4	523.31 ug/L	523.31 ppb	14:44:33
3	V 292.402†	75268.0	74480.5	511.83 ug/L	511.83 ppb	14:44:33
3	Zn 213.857†	54824.6	52635.9	489.73 ug/L	489.73 ppb	14:44:33
3	SiO2†	162482.6	157388.2	10602 ug/L	10602 ppb	14:45:09

Mean Data: 1202006003|937469|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	882920.1	102.90 %	0.235			0.23%
Sc Radial	5319.2	104 %	0.6			0.57%
Y 371.029	733389.6	100.79 %	0.224			0.22%
Y RADIAL	5627.0	102.2 %	0.75			0.73%
Ag 328.068†	109490.0	505.60 ug/L	0.374	505.60 ppb	0.374	0.07%
Al 396.153Radial†	6461.4	5143.4 ug/L	42.37	5143.4 ppb	42.37	0.82%
As 188.979†	1171.0	505.08 ug/L	2.606	505.08 ppb	2.606	0.52%
B 249.677†	22343.4	499.25 ug/L	1.284	499.25 ppb	1.284	0.26%
Ba 233.527†	66281.9	514.84 ug/L	1.622	514.84 ppb	1.622	0.32%
Be 313.107†	1346232.5	509.81 ug/L	0.802	509.81 ppb	0.802	0.16%
Ca 317.933Radial†	3179.6	5132.7 ug/L	23.43	5132.7 ppb	23.43	0.46%
Cd 226.502†	45447.6	499.83 ug/L	1.139	499.83 ppb	1.139	0.23%
Co 228.616†	24379.1	494.72 ug/L	1.911	494.72 ppb	1.911	0.39%
Cr 267.716†	45078.8	500.75 ug/L	0.739	500.75 ppb	0.739	0.15%
Cu 324.752†	171718.2	512.24 ug/L	0.153	512.24 ppb	0.153	0.03%
Fe 238.204 Radial†	611.8	5217.1 ug/L	42.46	5217.1 ppb	42.46	0.81%
K 766.490 Radial†	27424.2	4989.6 ug/L	51.17	4989.6 ppb	51.17	1.03%

Mg 279.077 IEC†	158.5	5262.3 ug/L	83.07	5262.3 ppb	83.07	1.58%
Mn 257.610†	465056.3	510.31 ug/L	0.995	510.31 ppb	0.995	0.19%
Mo 202.031†	7156.6	499.83 ug/L	0.607	499.83 ppb	0.607	0.12%
Na 589.592 Radial†	17985.6	5155.6 ug/L	27.71	5155.6 ppb	27.71	0.54%
Ni 231.604†	20252.6	500.89 ug/L	2.494	500.89 ppb	2.494	0.50%
P 214.914†	1004.8	483.20 ug/L	8.978	483.20 ppb	8.978	1.86%
Pb 220.353†	4167.7	506.07 ug/L	1.119	506.07 ppb	1.119	0.22%
S 181.975 Axial†	3654.7	5085.1 ug/L	25.94	5085.1 ppb	25.94	0.51%
Sb 206.836†	1513.9	531.42 ug/L	3.015	531.42 ppb	3.015	0.57%
Se 196.026†	777.8	507.09 ug/L	1.161	507.09 ppb	1.161	0.23%
Si 251.611†	158597.5	5014.5 ug/L	10.87	5014.5 ppb	10.87	0.22%
Sn 189.927†	2975.9	519.34 ug/L	1.863	519.34 ppb	1.863	0.36%
Sr 421.552†	80100.3	511.36 ug/L	3.088	511.36 ppb	3.088	0.60%
Ti 334.940†	321409.4	514.52 ug/L	0.493	514.52 ppb	0.493	0.10%
Tl 190.801†	1661.6	505.22 ug/L	5.332	505.22 ppb	5.332	1.06%
U 409.014†	17832.2	523.25 ug/L	4.606	523.25 ppb	4.606	0.88%
V 292.402†	74553.5	512.34 ug/L	0.667	512.34 ppb	0.667	0.13%
Zn 213.857†	52751.2	490.80 ug/L	1.179	490.80 ppb	1.179	0.24%
SiO2†	157950.4	10640 ug/L	86.2	10640 ppb	86.2	0.81%

Sequence No.: 9

Sample ID: 243627001|937469|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 1/12/2010 15:07:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 243627001|937469|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5265.6	5265.6	103 %		15:09:44
1	Y RADIAL	5611.5	5611.5	101.9 %		15:09:44
1	Al 396.153Radial†	23.2	28.7	22.976 ug/L	22.976 ppb	15:09:44
1	Ca 317.933Radial†	31.8	11.7	18.883 ug/L	18.883 ppb	15:10:04
1	Fe 238.204 Radial†	13.1	1.2	10.408 ug/L	10.408 ppb	15:10:04
1	K 766.490 Radial†	3294.1	692.1	125.97 ug/L	125.97 ppb	15:09:44
1	Mg 279.077 IEC†	2.1	-1.0	-33.731 ug/L	-33.731 ppb	15:10:04
1	Na 589.592 Radial†	-834.3	497.5	142.60 ug/L	142.60 ppb	15:09:44
1	Sr 421.552†	48.6	37.5	0.2394 ug/L	0.2394 ppb	15:09:44
1	Sc 361.383	880336.6	880336.6	102.59 %		15:11:01
1	Y 371.029	742846.6	742846.6	102.09 %		15:11:01
1	Ag 328.068†	185.1	-176.7	-0.8107 ug/L	-0.8107 ppb	15:11:01
1	As 188.979†	-18.5	5.9	2.5405 ug/L	2.5405 ppb	15:11:21
1	B 249.677†	302.7	910.1	20.427 ug/L	20.427 ppb	15:11:21
1	Ba 233.527†	140.4	145.5	1.1283 ug/L	1.1283 ppb	15:11:21
1	Be 313.107†	-4655.3	-62.9	-0.0212 ug/L	-0.0212 ppb	15:11:01
1	Cd 226.502†	-203.8	3.0	0.0332 ug/L	0.0332 ppb	15:11:21
1	Co 228.616†	-84.0	-4.6	-0.0955 ug/L	-0.0955 ppb	15:11:21
1	Cr 267.716†	99.8	18.3	0.2017 ug/L	0.2017 ppb	15:11:21
1	Cu 324.752†	6837.3	262.0	0.7784 ug/L	0.7784 ppb	15:11:01
1	Mn 257.610†	1310.6	847.6	0.9320 ug/L	0.9320 ppb	15:11:21
1	Mo 202.031†	19.9	-2.3	-0.1566 ug/L	-0.1566 ppb	15:11:21
1	Ni 231.604†	58.1	-10.4	-0.2569 ug/L	-0.2569 ppb	15:11:21
1	P 214.914†	234.7	8.5	4.9245 ug/L	4.9245 ppb	15:11:21
1	Pb 220.353†	-58.6	5.0	0.6125 ug/L	0.6125 ppb	15:11:21
1	S 181.975 Axial†	79.5	33.7	46.838 ug/L	46.838 ppb	15:11:21
1	Sb 206.836†	48.6	14.0	4.7583 ug/L	4.7583 ppb	15:11:21
1	Se 196.026†	-14.9	17.5	11.033 ug/L	11.033 ppb	15:11:21
1	Si 251.611†	46226.4	44596.6	1411.8 ug/L	1411.8 ppb	15:11:01
1	Sn 189.927†	10.4	8.5	1.4859 ug/L	1.4859 ppb	15:11:21
1	Ti 334.940†	-655.7	695.0	1.1153 ug/L	1.1153 ppb	15:11:01
1	Tl 190.801†	-43.6	-8.4	-2.5129 ug/L	-2.5129 ppb	15:11:21
1	U 409.014†	-1683.2	223.2	6.5702 ug/L	6.5702 ppb	15:11:01
1	V 292.402†	-1336.7	56.8	0.3916 ug/L	0.3916 ppb	15:11:01
1	Zn 213.857†	752.9	109.2	1.0242 ug/L	1.0242 ppb	15:11:21
1	SiO2†	45948.4	44327.3	2989.8 ug/L	2989.8 ppb	15:12:17
2	Sc Radial	5397.7	5397.7	105 %		15:10:09
2	Y RADIAL	5748.6	5748.6	104.4 %		15:10:09
2	Al 396.153Radial†	34.6	39.0	31.249 ug/L	31.249 ppb	15:10:09
2	Ca 317.933Radial†	35.2	14.2	22.955 ug/L	22.955 ppb	15:10:30
2	Fe 238.204 Radial†	9.0	-3.0	-25.798 ug/L	-25.798 ppb	15:10:30
2	K 766.490 Radial†	3283.1	603.2	109.78 ug/L	109.78 ppb	15:10:09
2	Mg 279.077 IEC†	2.2	-0.9	-30.997 ug/L	-30.997 ppb	15:10:30
2	Na 589.592 Radial†	-818.1	532.8	152.72 ug/L	152.72 ppb	15:10:09
2	Sr 421.552†	12.8	2.4	0.0149 ug/L	0.0149 ppb	15:10:09
2	Sc 361.383	879760.3	879760.3	102.53 %		15:11:27
2	Y 371.029	741378.7	741378.7	101.88 %		15:11:27
2	Ag 328.068†	242.7	-120.4	-0.5639 ug/L	-0.5639 ppb	15:11:27
2	As 188.979†	-15.0	9.3	3.9796 ug/L	3.9796 ppb	15:11:47
2	B 249.677†	316.8	924.1	20.746 ug/L	20.746 ppb	15:11:47
2	Ba 233.527†	158.9	163.5	1.2671 ug/L	1.2671 ppb	15:11:47
2	Be 313.107†	-4599.4	-11.3	-0.0016 ug/L	-0.0016 ppb	15:11:27
2	Cd 226.502†	-205.9	0.8	0.0127 ug/L	0.0127 ppb	15:11:47
2	Co 228.616†	-80.2	-1.0	-0.0218 ug/L	-0.0218 ppb	15:11:47
2	Cr 267.716†	102.7	21.3	0.2335 ug/L	0.2335 ppb	15:11:47
2	Cu 324.752†	6776.2	206.8	0.6121 ug/L	0.6121 ppb	15:11:27
2	Mn 257.610†	1314.9	852.7	0.9338 ug/L	0.9338 ppb	15:11:47
2	Mo 202.031†	16.4	-5.6	-0.3951 ug/L	-0.3951 ppb	15:11:47
2	Ni 231.604†	63.9	-4.7	-0.1171 ug/L	-0.1171 ppb	15:11:47

2	P 214.914†	243.5	17.2	10.183 ug/L	10.183 ppb	15:11:47
2	Pb 220.353†	-54.1	9.4	1.1460 ug/L	1.1460 ppb	15:11:47
2	S 181.975 Axial†	71.7	26.1	36.299 ug/L	36.299 ppb	15:11:47
2	Sb 206.836†	49.8	15.1	5.1285 ug/L	5.1285 ppb	15:11:47
2	Se 196.026†	-27.9	4.8	2.9518 ug/L	2.9518 ppb	15:11:47
2	Si 251.611†	46033.3	44437.8	1406.7 ug/L	1406.7 ppb	15:11:27
2	Sn 189.927†	3.8	2.0	0.3571 ug/L	0.3571 ppb	15:11:47
2	Ti 334.940†	-612.5	736.7	1.1826 ug/L	1.1826 ppb	15:11:27
2	Tl 190.801†	-36.8	-1.8	-0.5253 ug/L	-0.5253 ppb	15:11:47
2	U 409.014†	-1702.6	203.3	5.9864 ug/L	5.9864 ppb	15:11:27
2	V 292.402†	-1335.7	57.0	0.3942 ug/L	0.3942 ppb	15:11:27
2	Zn 213.857†	756.4	113.1	1.0642 ug/L	1.0642 ppb	15:11:47
2	SiO2†	45993.8	44400.9	2994.8 ug/L	2994.8 ppb	15:12:22
3	Sc Radial	5408.4	5408.4	106 %		15:10:35
3	Y RADIAL	5766.8	5766.8	104.7 %		15:10:35
3	Al 396.153Radial†	31.8	36.3	29.073 ug/L	29.073 ppb	15:10:35
3	Ca 317.933Radial†	34.8	13.8	22.228 ug/L	22.228 ppb	15:10:55
3	Fe 238.204 Radial†	12.7	0.5	4.2701 ug/L	4.2701 ppb	15:10:55
3	K 766.490 Radial†	3359.8	669.6	121.88 ug/L	121.88 ppb	15:10:35
3	Mg 279.077 IEC†	0.5	-2.5	-84.416 ug/L	-84.416 ppb	15:10:55
3	Na 589.592 Radial†	-858.9	495.7	142.08 ug/L	142.08 ppb	15:10:35
3	Sr 421.552†	43.5	31.4	0.2005 ug/L	0.2005 ppb	15:10:35
3	Sc 361.383	875765.6	875765.6	102.06 %		15:11:52
3	Y 371.029	739743.2	739743.2	101.66 %		15:11:52
3	Ag 328.068†	271.7	-90.8	-0.4159 ug/L	-0.4159 ppb	15:11:52
3	As 188.979†	-15.3	8.9	3.8206 ug/L	3.8206 ppb	15:12:12
3	B 249.677†	321.8	930.5	20.884 ug/L	20.884 ppb	15:12:12
3	Ba 233.527†	154.2	159.6	1.2378 ug/L	1.2378 ppb	15:12:12
3	Be 313.107†	-4596.8	-29.3	-0.0087 ug/L	-0.0087 ppb	15:11:52
3	Cd 226.502†	-198.1	7.5	0.0828 ug/L	0.0828 ppb	15:12:12
3	Co 228.616†	-78.3	0.6	0.0088 ug/L	0.0088 ppb	15:12:12
3	Cr 267.716†	99.2	18.2	0.2017 ug/L	0.2017 ppb	15:12:12
3	Cu 324.752†	6759.1	220.1	0.6556 ug/L	0.6556 ppb	15:11:52
3	Mn 257.610†	1348.7	891.6	0.9817 ug/L	0.9817 ppb	15:12:12
3	Mo 202.031†	15.8	-6.1	-0.4276 ug/L	-0.4276 ppb	15:12:12
3	Ni 231.604†	60.9	-7.3	-0.1816 ug/L	-0.1816 ppb	15:12:12
3	P 214.914†	237.7	12.6	7.4217 ug/L	7.4217 ppb	15:12:12
3	Pb 220.353†	-56.9	6.5	0.7897 ug/L	0.7897 ppb	15:12:12
3	S 181.975 Axial†	76.2	30.8	42.798 ug/L	42.798 ppb	15:12:12
3	Sb 206.836†	48.0	13.6	4.6169 ug/L	4.6169 ppb	15:12:12
3	Se 196.026†	-20.9	11.6	7.2908 ug/L	7.2908 ppb	15:12:12
3	Si 251.611†	45728.2	44343.7	1403.8 ug/L	1403.8 ppb	15:11:52
3	Sn 189.927†	1.4	-0.3	-0.0426 ug/L	-0.0426 ppb	15:12:12
3	Ti 334.940†	-713.2	635.3	1.0261 ug/L	1.0261 ppb	15:11:52
3	Tl 190.801†	-44.5	-9.5	-2.8479 ug/L	-2.8479 ppb	15:12:12
3	U 409.014†	-1820.0	80.7	2.3746 ug/L	2.3746 ppb	15:11:52
3	V 292.402†	-1338.5	48.3	0.3219 ug/L	0.3219 ppb	15:11:52
3	Zn 213.857†	771.6	131.4	1.2330 ug/L	1.2330 ppb	15:12:12
3	SiO2†	45597.4	44217.1	2982.4 ug/L	2982.4 ppb	15:12:27

Mean Data: 243627001|937469|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	878620.8	102.39 %	0.290			0.28%
Sc Radial	5357.3	105 %	1.6			1.49%
Y 371.029	741322.8	101.88 %	0.213			0.21%
Y RADIAL	5709.0	103.7 %	1.54			1.49%
Ag 328.068†	-129.3	-0.5968 ug/L	0.19948	-0.5968 ppb	0.19948	33.42%
Al 396.153Radial†	34.7	27.766 ug/L	4.2883	27.766 ppb	4.2883	15.44%
As 188.979†	8.0	3.4469 ug/L	0.78895	3.4469 ppb	0.78895	22.89%
B 249.677†	921.6	20.686 ug/L	0.2343	20.686 ppb	0.2343	1.13%
Ba 233.527†	156.2	1.2111 ug/L	0.07315	1.2111 ppb	0.07315	6.04%
Be 313.107†	-34.5	-0.0105 ug/L	0.00993	-0.0105 ppb	0.00993	94.33%
Ca 317.933Radial†	13.2	21.355 ug/L	2.1720	21.355 ppb	2.1720	10.17%
Cd 226.502†	3.8	0.0429 ug/L	0.03607	0.0429 ppb	0.03607	84.10%
Co 228.616†	-1.7	-0.0362 ug/L	0.05360	-0.0362 ppb	0.05360	148.12%
Cr 267.716†	19.3	0.2123 ug/L	0.01837	0.2123 ppb	0.01837	8.65%
Cu 324.752†	229.6	0.6820 ug/L	0.08624	0.6820 ppb	0.08624	12.64%
Fe 238.204 Radial†	-0.4	-3.7067 ug/L	19.37610	-3.7067 ppb	19.37610	522.73%
K 766.490 Radial†	655.0	119.21 ug/L	8.423	119.21 ppb	8.423	7.07%

Mg 279.077 IEC†	-1.5	-49.715 ug/L	30.0831	-49.715 ppb	30.0831	60.51%
Mn 257.610†	864.0	0.9492 ug/L	0.02819	0.9492 ppb	0.02819	2.97%
Mo 202.031†	-4.7	-0.3264 ug/L	0.14799	-0.3264 ppb	0.14799	45.33%
Na 589.592 Radial†	508.6	145.80 ug/L	5.998	145.80 ppb	5.998	4.11%
Ni 231.604†	-7.5	-0.1852 ug/L	0.06994	-0.1852 ppb	0.06994	37.76%
P 214.914†	12.8	7.5097 ug/L	2.63042	7.5097 ppb	2.63042	35.03%
Pb 220.353†	7.0	0.8494 ug/L	0.27166	0.8494 ppb	0.27166	31.98%
S 181.975 Axial†	30.2	41.978 ug/L	5.3169	41.978 ppb	5.3169	12.67%
Sb 206.836†	14.2	4.8346 ug/L	0.26418	4.8346 ppb	0.26418	5.46%
Se 196.026†	11.3	7.0918 ug/L	4.04411	7.0918 ppb	4.04411	57.03%
Si 251.611†	44459.4	1407.4 ug/L	4.05	1407.4 ppb	4.05	0.29%
Sn 189.927†	3.4	0.6002 ug/L	0.79268	0.6002 ppb	0.79268	132.08%
Sr 421.552†	23.8	0.1516 ug/L	0.11997	0.1516 ppb	0.11997	79.15%
Ti 334.940†	689.0	1.1080 ug/L	0.07851	1.1080 ppb	0.07851	7.09%
Tl 190.801†	-6.5	-1.9620 ug/L	1.25543	-1.9620 ppb	1.25543	63.99%
U 409.014†	169.1	4.9771 ug/L	2.27259	4.9771 ppb	2.27259	45.66%
V 292.402†	54.0	0.3693 ug/L	0.04101	0.3693 ppb	0.04101	11.11%
Zn 213.857†	117.9	1.1071 ug/L	0.11082	1.1071 ppb	0.11082	10.01%
SiO2†	44315.1	2989.0 ug/L	6.24	2989.0 ppb	6.24	0.21%

Sequence No.: 10
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/12/2010 15:14:38
 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	5193.4	5193.4	101 %		15:16:30
1	Y RADIAL	5506.6	5506.6	100.0 %		15:16:30
1	Al 396.153Radial†	6511.4	6426.7	5115.7 ug/L	5115.7 ppb	15:16:30
1	Ca 317.933Radial†	3214.2	3150.1	5085.1 ug/L	5085.1 ppb	15:16:50
1	Fe 238.204 Radial†	605.9	585.9	4997.2 ug/L	4997.2 ppb	15:16:50
1	K 766.490 Radial†	30155.5	27223.3	4951.4 ug/L	4951.4 ppb	15:16:30
1	Mg 279.077 IEC†	160.0	154.7	5137.8 ug/L	5137.8 ppb	15:16:50
1	Na 589.592 Radial†	31762.7	32628.4	9353.0 ug/L	9353.0 ppb	15:16:30
1	Sr 421.552†	77289.6	76201.5	486.47 ug/L	486.47 ppb	15:16:30
1	Sc 361.383	877787.4	877787.4	102.30 %		15:17:48
1	Y 371.029	728223.0	728223.0	100.08 %		15:17:48
1	Ag 328.068†	111870.4	109000.7	503.25 ug/L	503.25 ppb	15:17:53
1	As 188.979†	1179.5	1177.0	507.38 ug/L	507.38 ppb	15:18:13
1	B 249.677†	21861.0	21985.1	491.22 ug/L	491.22 ppb	15:17:53
1	Ba 233.527†	65659.7	64193.5	498.63 ug/L	498.63 ppb	15:17:53
1	Be 313.107†	1364615.8	1338440.0	506.81 ug/L	506.81 ppb	15:17:48
1	Cd 226.502†	46341.1	45501.8	500.45 ug/L	500.45 ppb	15:17:53
1	Co 228.616†	25289.1	24798.3	503.27 ug/L	503.27 ppb	15:17:53
1	Cr 267.716†	45819.2	44711.1	496.66 ug/L	496.66 ppb	15:17:53
1	Cu 324.752†	175354.6	165013.5	492.24 ug/L	492.24 ppb	15:17:53
1	Mn 257.610†	470655.3	459654.2	504.37 ug/L	504.37 ppb	15:17:48
1	Mo 202.031†	7329.4	7143.2	498.87 ug/L	498.87 ppb	15:18:13
1	Ni 231.604†	20712.3	20180.0	499.09 ug/L	499.09 ppb	15:17:53
1	P 214.914†	4470.6	4149.9	2376.1 ug/L	2376.1 ppb	15:18:13
1	Pb 220.353†	4133.2	4102.6	498.22 ug/L	498.22 ppb	15:18:13
1	S 181.975 Axial†	785.5	724.0	1006.6 ug/L	1006.6 ppb	15:18:13
1	Sb 206.836†	1532.7	1464.9	514.51 ug/L	514.51 ppb	15:18:13
1	Se 196.026†	776.9	791.4	515.01 ug/L	515.01 ppb	15:18:13
1	Si 251.611†	81234.7	78949.5	2493.1 ug/L	2493.1 ppb	15:17:53
1	Sn 189.927†	2930.4	2862.9	499.66 ug/L	499.66 ppb	15:18:13
1	Ti 334.940†	311732.9	306065.2	489.96 ug/L	489.96 ppb	15:17:53
1	Tl 190.801†	1650.6	1647.6	500.75 ug/L	500.75 ppb	15:18:13
1	U 409.014†	15768.5	17278.2	506.97 ug/L	506.97 ppb	15:17:53
1	V 292.402†	73366.6	73078.5	502.35 ug/L	502.35 ppb	15:17:53
1	Zn 213.857†	55345.3	53477.5	497.68 ug/L	497.68 ppb	15:17:53
1	SiO2†	82654.2	80338.7	5405.2 ug/L	5405.2 ppb	15:19:20
2	Sc Radial	5225.6	5225.6	102 %		15:16:55
2	Y RADIAL	5583.3	5583.3	101.4 %		15:16:55
2	Al 396.153Radial†	6554.1	6428.9	5117.3 ug/L	5117.3 ppb	15:16:55
2	Ca 317.933Radial†	3217.1	3133.4	5058.2 ug/L	5058.2 ppb	15:17:16
2	Fe 238.204 Radial†	603.0	579.3	4941.1 ug/L	4941.1 ppb	15:17:16
2	K 766.490 Radial†	30410.5	27289.5	4963.5 ug/L	4963.5 ppb	15:16:55
2	Mg 279.077 IEC†	157.2	151.0	5015.2 ug/L	5015.2 ppb	15:17:16
2	Na 589.592 Radial†	31839.1	32509.9	9319.0 ug/L	9319.0 ppb	15:16:55
2	Sr 421.552†	77672.3	76106.1	485.86 ug/L	485.86 ppb	15:16:55
2	Sc 361.383	866360.1	866360.1	100.97 %		15:18:19
2	Y 371.029	719535.7	719535.7	98.883 %		15:18:19
2	Ag 328.068†	112791.3	111355.1	514.07 ug/L	514.07 ppb	15:18:24
2	As 188.979†	1175.8	1188.5	512.38 ug/L	512.38 ppb	15:18:44
2	B 249.677†	22120.8	22524.2	503.30 ug/L	503.30 ppb	15:18:24
2	Ba 233.527†	65959.9	65337.5	507.51 ug/L	507.51 ppb	15:18:24
2	Be 313.107†	1346864.3	1338453.4	506.84 ug/L	506.84 ppb	15:18:19
2	Cd 226.502†	46341.8	46100.0	507.04 ug/L	507.04 ppb	15:18:24
2	Co 228.616†	25331.9	25166.8	510.73 ug/L	510.73 ppb	15:18:24
2	Cr 267.716†	45971.5	45452.7	504.90 ug/L	504.90 ppb	15:18:24
2	Cu 324.752†	177492.9	169392.4	505.29 ug/L	505.29 ppb	15:18:24
2	Mn 257.610†	463891.5	459023.5	503.68 ug/L	503.68 ppb	15:18:19
2	Mo 202.031†	7285.5	7194.2	502.43 ug/L	502.43 ppb	15:18:44
2	Ni 231.604†	20835.5	20569.1	508.71 ug/L	508.71 ppb	15:18:24

2	P 214.914†	4423.0	4160.4	2379.4 ug/L	2379.4 ppb	15:18:44
2	Pb 220.353†	4144.4	4167.0	506.02 ug/L	506.02 ppb	15:18:44
2	S 181.975 Axial†	793.0	741.5	1031.0 ug/L	1031.0 ppb	15:18:44
2	Sb 206.836†	1526.8	1478.7	519.34 ug/L	519.34 ppb	15:18:44
2	Se 196.026†	781.1	805.7	523.82 ug/L	523.82 ppb	15:18:44
2	Si 251.611†	81849.7	80606.0	2545.5 ug/L	2545.5 ppb	15:18:24
2	Sn 189.927†	2919.8	2890.2	504.40 ug/L	504.40 ppb	15:18:44
2	Ti 334.940†	314573.8	312898.4	500.90 ug/L	500.90 ppb	15:18:24
2	Tl 190.801†	1636.3	1654.7	502.93 ug/L	502.93 ppb	15:18:44
2	U 409.014†	16018.0	17728.6	520.22 ug/L	520.22 ppb	15:18:24
2	V 292.402†	73775.3	74429.2	511.58 ug/L	511.58 ppb	15:18:24
2	Zn 213.857†	55513.5	54357.8	505.87 ug/L	505.87 ppb	15:18:24
2	SiO2†	80893.1	79660.1	5359.3 ug/L	5359.3 ppb	15:19:26
3	Sc Radial	5118.3	5118.3	99.9 %		15:17:21
3	Y RADIAL	5448.8	5448.8	98.97 %		15:17:21
3	Al 396.153Radial†	6423.9	6433.4	5120.9 ug/L	5120.9 ppb	15:17:21
3	Ca 317.933Radial†	3198.7	3181.2	5135.3 ug/L	5135.3 ppb	15:17:41
3	Fe 238.204 Radial†	600.3	589.1	5024.0 ug/L	5024.0 ppb	15:17:41
3	K 766.490 Radial†	29894.3	27398.3	4983.3 ug/L	4983.3 ppb	15:17:21
3	Mg 279.077 IEC†	155.8	152.9	5076.2 ug/L	5076.2 ppb	15:17:41
3	Na 589.592 Radial†	31015.0	32340.0	9270.3 ug/L	9270.3 ppb	15:17:21
3	Sr 421.552†	76128.5	76158.3	486.20 ug/L	486.20 ppb	15:17:21
3	Sc 361.383	864224.7	864224.7	100.72 %		15:18:50
3	Y 371.029	719577.7	719577.7	98.889 %		15:18:50
3	Ag 328.068†	112050.0	110895.2	511.98 ug/L	511.98 ppb	15:18:55
3	As 188.979†	1161.9	1177.6	507.72 ug/L	507.72 ppb	15:19:15
3	B 249.677†	21944.1	22403.0	500.58 ug/L	500.58 ppb	15:18:55
3	Ba 233.527†	65436.9	64979.6	504.74 ug/L	504.74 ppb	15:18:55
3	Be 313.107†	1345836.3	1340728.7	507.69 ug/L	507.69 ppb	15:18:50
3	Cd 226.502†	46114.4	45987.7	505.79 ug/L	505.79 ppb	15:18:55
3	Co 228.616†	25109.0	25007.4	507.51 ug/L	507.51 ppb	15:18:55
3	Cr 267.716†	45792.0	45387.0	504.17 ug/L	504.17 ppb	15:18:55
3	Cu 324.752†	176227.0	168569.9	502.85 ug/L	502.85 ppb	15:18:55
3	Mn 257.610†	461897.1	458178.6	502.76 ug/L	502.76 ppb	15:18:50
3	Mo 202.031†	7278.1	7204.6	503.16 ug/L	503.16 ppb	15:19:15
3	Ni 231.604†	20690.0	20475.6	506.40 ug/L	506.40 ppb	15:18:55
3	P 214.914†	4418.4	4166.6	2383.6 ug/L	2383.6 ppb	15:19:15
3	Pb 220.353†	4126.1	4158.9	505.03 ug/L	505.03 ppb	15:19:15
3	S 181.975 Axial†	769.2	719.8	1000.8 ug/L	1000.8 ppb	15:19:15
3	Sb 206.836†	1521.6	1477.3	518.87 ug/L	518.87 ppb	15:19:15
3	Se 196.026†	786.8	813.2	528.81 ug/L	528.81 ppb	15:19:15
3	Si 251.611†	81077.3	80039.4	2527.6 ug/L	2527.6 ppb	15:18:55
3	Sn 189.927†	2903.6	2881.3	502.86 ug/L	502.86 ppb	15:19:15
3	Ti 334.940†	311984.9	311097.7	498.02 ug/L	498.02 ppb	15:18:55
3	Tl 190.801†	1634.0	1656.5	503.46 ug/L	503.46 ppb	15:19:15
3	U 409.014†	15699.9	17452.0	512.07 ug/L	512.07 ppb	15:18:55
3	V 292.402†	73424.9	74261.8	510.43 ug/L	510.43 ppb	15:18:55
3	Zn 213.857†	55210.1	54192.4	504.32 ug/L	504.32 ppb	15:18:55
3	SiO2†	81597.1	80557.1	5419.8 ug/L	5419.8 ppb	15:19:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869457.4	101.33 %	0.850			0.84%
Sc Radial	5179.1	101 %	1.1			1.06%
Y 371.029	722445.5	99.283 %	0.6876			0.69%
Y RADIAL	5512.9	100.1 %	1.23			1.22%
Ag 328.068†	110417.0	509.77 ug/L	5.736	509.77 ppb	5.736	1.13%
QC value within limits for Ag 328.068 Recovery = 101.95%						
Al 396.153Radial†	6429.7	5118.0 ug/L	2.65	5118.0 ppb	2.65	0.05%
QC value within limits for Al 396.153Radial Recovery = 102.36%						
As 188.979†	1181.0	509.16 ug/L	2.794	509.16 ppb	2.794	0.55%
QC value within limits for As 188.979 Recovery = 101.83%						
B 249.677†	22304.1	498.37 ug/L	6.341	498.37 ppb	6.341	1.27%
QC value within limits for B 249.677 Recovery = 99.67%						
Ba 233.527†	64836.8	503.62 ug/L	4.544	503.62 ppb	4.544	0.90%
QC value within limits for Ba 233.527 Recovery = 100.72%						
Be 313.107†	1339207.4	507.11 ug/L	0.501	507.11 ppb	0.501	0.10%
QC value within limits for Be 313.107 Recovery = 101.42%						
Ca 317.933Radial†	3154.9	5092.9 ug/L	39.11	5092.9 ppb	39.11	0.77%

QC value within limits for Ca 317.933 Radial Recovery = 101.86%							
Cd 226.502†	45863.2	504.43 ug/L	3.504	504.43 ppb	3.504	0.69%	
QC value within limits for Cd 226.502 Recovery = 100.89%							
Co 228.616†	24990.8	507.17 ug/L	3.744	507.17 ppb	3.744	0.74%	
QC value within limits for Co 228.616 Recovery = 101.43%							
Cr 267.716†	45183.6	501.91 ug/L	4.559	501.91 ppb	4.559	0.91%	
QC value within limits for Cr 267.716 Recovery = 100.38%							
Cu 324.752†	167658.6	500.13 ug/L	6.939	500.13 ppb	6.939	1.39%	
QC value within limits for Cu 324.752 Recovery = 100.03%							
Fe 238.204 Radial†	584.8	4987.4 ug/L	42.32	4987.4 ppb	42.32	0.85%	
QC value within limits for Fe 238.204 Radial Recovery = 99.75%							
K 766.490 Radial†	27303.7	4966.1 ug/L	16.09	4966.1 ppb	16.09	0.32%	
QC value within limits for K 766.490 Radial Recovery = 99.32%							
Mg 279.077 IEC†	152.9	5076.4 ug/L	61.32	5076.4 ppb	61.32	1.21%	
QC value within limits for Mg 279.077 IEC Recovery = 101.53%							
Mn 257.610†	458952.1	503.60 ug/L	0.809	503.60 ppb	0.809	0.16%	
QC value within limits for Mn 257.610 Recovery = 100.72%							
Mo 202.031†	7180.7	501.48 ug/L	2.295	501.48 ppb	2.295	0.46%	
QC value within limits for Mo 202.031 Recovery = 100.30%							
Na 589.592 Radial†	32492.8	9314.1 ug/L	41.56	9314.1 ppb	41.56	0.45%	
QC value within limits for Na 589.592 Radial Recovery = 93.14%							
Ni 231.604†	20408.3	504.73 ug/L	5.024	504.73 ppb	5.024	1.00%	
QC value within limits for Ni 231.604 Recovery = 100.95%							
P 214.914†	4159.0	2379.7 ug/L	3.77	2379.7 ppb	3.77	0.16%	
QC value within limits for P 214.914 Recovery = 95.19%							
Pb 220.353†	4142.8	503.09 ug/L	4.248	503.09 ppb	4.248	0.84%	
QC value within limits for Pb 220.353 Recovery = 100.62%							
S 181.975 Axial†	728.5	1012.8 ug/L	16.02	1012.8 ppb	16.02	1.58%	
QC value within limits for S 181.975 Axial Recovery = 101.28%							
Sb 206.836†	1473.6	517.57 ug/L	2.665	517.57 ppb	2.665	0.51%	
QC value within limits for Sb 206.836 Recovery = 103.51%							
Se 196.026†	803.4	522.54 ug/L	6.987	522.54 ppb	6.987	1.34%	
QC value within limits for Se 196.026 Recovery = 104.51%							
Si 251.611†	79864.9	2522.1 ug/L	26.63	2522.1 ppb	26.63	1.06%	
QC value within limits for Si 251.611 Recovery = 100.88%							
Sn 189.927†	2878.1	502.31 ug/L	2.421	502.31 ppb	2.421	0.48%	
QC value within limits for Sn 189.927 Recovery = 100.46%							
Sr 421.552†	76155.3	486.18 ug/L	0.305	486.18 ppb	0.305	0.06%	
QC value within limits for Sr 421.552 Recovery = 97.24%							
Ti 334.940†	310020.4	496.29 ug/L	5.671	496.29 ppb	5.671	1.14%	
QC value within limits for Ti 334.940 Recovery = 99.26%							
Tl 190.801†	1652.9	502.38 ug/L	1.434	502.38 ppb	1.434	0.29%	
QC value within limits for Tl 190.801 Recovery = 100.48%							
U 409.014†	17486.3	513.09 ug/L	6.683	513.09 ppb	6.683	1.30%	
QC value within limits for U 409.014 Recovery = 102.62%							
V 292.402†	73923.2	508.12 ug/L	5.028	508.12 ppb	5.028	0.99%	
QC value within limits for V 292.402 Recovery = 101.62%							
Zn 213.857†	54009.2	502.62 ug/L	4.352	502.62 ppb	4.352	0.87%	
QC value within limits for Zn 213.857 Recovery = 100.52%							
SiO2†	80185.3	5394.7 ug/L	31.56	5394.7 ppb	31.56	0.58%	
QC value within limits for SiO2 Recovery = 100.88%							
All analyte(s) passed QC.							

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

Autosampler Location: 8
 Date Collected: 1/12/2010 15:21:40
 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	5225.1	5225.1	102 %		15:23:33
1	Y RADIAL	5612.5	5612.5	101.9 %		15:23:33
1	Al 396.153Radial†	-25.9	-19.2	-15.409 ug/L	-15.409 ppb	15:23:33
1	Ca 317.933Radial†	16.8	-2.8	-4.5010 ug/L	-4.5010 ppb	15:23:53
1	Fe 238.204 Radial†	9.1	-2.6	-22.389 ug/L	-22.389 ppb	15:23:53
1	K 766.490 Radial†	2708.5	143.0	26.029 ug/L	26.029 ppb	15:23:33
1	Mg 279.077 IEC†	2.0	-1.1	-35.396 ug/L	-35.396 ppb	15:23:53
1	Na 589.592 Radial†	-1201.7	131.2	37.603 ug/L	37.603 ppb	15:23:33
1	Sr 421.552†	4.3	-5.5	-0.0350 ug/L	-0.0350 ppb	15:23:33
1	Sc 361.383	865424.8	865424.8	100.86 %		15:24:50
1	Y 371.029	731274.2	731274.2	100.50 %		15:24:50
1	Ag 328.068†	328.4	-31.4	-0.1542 ug/L	-0.1542 ppb	15:24:50
1	As 188.979†	-19.4	4.7	2.0057 ug/L	2.0057 ppb	15:25:10
1	B 249.677†	-414.5	204.1	4.5852 ug/L	4.5852 ppb	15:25:10
1	Ba 233.527†	-21.1	-12.3	-0.0968 ug/L	-0.0968 ppb	15:25:10
1	Be 313.107†	-4537.2	-24.0	-0.0088 ug/L	-0.0088 ppb	15:24:50
1	Cd 226.502†	-195.1	8.2	0.0924 ug/L	0.0924 ppb	15:25:10
1	Co 228.616†	-80.4	-2.5	-0.0495 ug/L	-0.0495 ppb	15:25:10
1	Cr 267.716†	81.9	2.2	0.0228 ug/L	0.0228 ppb	15:25:10
1	Cu 324.752†	6375.2	-81.4	-0.2450 ug/L	-0.2450 ppb	15:24:50
1	Mn 257.610†	429.6	-3.9	-0.0050 ug/L	-0.0050 ppb	15:25:10
1	Mo 202.031†	27.5	5.7	0.3945 ug/L	0.3945 ppb	15:25:10
1	Ni 231.604†	41.8	-25.6	-0.6330 ug/L	-0.6330 ppb	15:25:10
1	P 214.914†	243.2	20.8	12.564 ug/L	12.564 ppb	15:25:10
1	Pb 220.353†	-55.2	7.4	0.8971 ug/L	0.8971 ppb	15:25:10
1	S 181.975 Axial†	46.8	2.6	3.5656 ug/L	3.5656 ppb	15:25:10
1	Sb 206.836†	48.7	14.9	5.0648 ug/L	5.0648 ppb	15:25:10
1	Se 196.026†	-31.3	1.0	0.5652 ug/L	0.5652 ppb	15:25:10
1	Si 251.611†	510.2	45.2	1.4269 ug/L	1.4269 ppb	15:25:10
1	Sn 189.927†	3.5	1.8	0.3058 ug/L	0.3058 ppb	15:25:10
1	Ti 334.940†	-1275.3	69.7	0.1130 ug/L	0.1130 ppb	15:24:50
1	Tl 190.801†	-37.6	-3.2	-0.9622 ug/L	-0.9622 ppb	15:25:10
1	U 409.014†	-1813.3	66.0	1.9458 ug/L	1.9458 ppb	15:24:50
1	V 292.402†	-1418.0	-46.2	-0.3009 ug/L	-0.3009 ppb	15:24:50
1	Zn 213.857†	654.6	24.4	0.2357 ug/L	0.2357 ppb	15:25:10
1	SiO2†	526.9	63.4	4.2625 ug/L	4.2625 ppb	15:26:06
2	Sc Radial	5271.6	5271.6	103 %		15:23:58
2	Y RADIAL	5661.6	5661.6	102.8 %		15:23:58
2	Al 396.153Radial†	-14.3	-7.7	-6.1236 ug/L	-6.1236 ppb	15:23:58
2	Ca 317.933Radial†	23.1	3.2	5.1629 ug/L	5.1629 ppb	15:24:18
2	Fe 238.204 Radial†	10.8	-1.0	-8.9072 ug/L	-8.9072 ppb	15:24:18
2	K 766.490 Radial†	2785.2	194.0	35.318 ug/L	35.318 ppb	15:23:58
2	Mg 279.077 IEC†	0.7	-2.4	-79.125 ug/L	-79.125 ppb	15:24:18
2	Na 589.592 Radial†	-1211.8	131.7	37.761 ug/L	37.761 ppb	15:23:58
2	Sr 421.552†	26.7	16.2	0.1034 ug/L	0.1034 ppb	15:23:58
2	Sc 361.383	855398.2	855398.2	99.688 %		15:25:15
2	Y 371.029	723767.5	723767.5	99.465 %		15:25:15
2	Ag 328.068†	277.6	-78.6	-0.3648 ug/L	-0.3648 ppb	15:25:15
2	As 188.979†	-17.8	6.0	2.5823 ug/L	2.5823 ppb	15:25:35
2	B 249.677†	-414.5	199.3	4.4755 ug/L	4.4755 ppb	15:25:35
2	Ba 233.527†	-12.1	-3.5	-0.0272 ug/L	-0.0272 ppb	15:25:35
2	Be 313.107†	-4541.2	-80.7	-0.0302 ug/L	-0.0302 ppb	15:25:15
2	Cd 226.502†	-201.4	-0.4	-0.0026 ug/L	-0.0026 ppb	15:25:35
2	Co 228.616†	-84.0	-7.0	-0.1424 ug/L	-0.1424 ppb	15:25:35
2	Cr 267.716†	76.8	-1.9	-0.0223 ug/L	-0.0223 ppb	15:25:35
2	Cu 324.752†	6442.1	59.8	0.1760 ug/L	0.1760 ppb	15:25:15
2	Mn 257.610†	434.3	5.9	0.0088 ug/L	0.0088 ppb	15:25:35
2	Mo 202.031†	19.7	-1.8	-0.1297 ug/L	-0.1297 ppb	15:25:35
2	Ni 231.604†	71.1	4.3	0.1058 ug/L	0.1058 ppb	15:25:35

2	P 214.914†	221.2	1.6	0.9527 ug/L	0.9527 ppb	15:25:35
2	Pb 220.353†	-55.9	6.1	0.7424 ug/L	0.7424 ppb	15:25:35
2	S 181.975 Axial†	53.0	9.3	12.889 ug/L	12.889 ppb	15:25:35
2	Sb 206.836†	42.5	9.2	3.1497 ug/L	3.1497 ppb	15:25:35
2	Se 196.026†	-34.7	-2.7	-1.7422 ug/L	-1.7422 ppb	15:25:35
2	Si 251.611†	503.9	44.8	1.4194 ug/L	1.4194 ppb	15:25:35
2	Sn 189.927†	10.2	8.6	1.5005 ug/L	1.5005 ppb	15:25:35
2	Ti 334.940†	-1254.2	76.0	0.1274 ug/L	0.1274 ppb	15:25:15
2	Tl 190.801†	-33.0	1.0	0.3115 ug/L	0.3115 ppb	15:25:35
2	U 409.014†	-1743.8	114.7	3.3769 ug/L	3.3769 ppb	15:25:15
2	V 292.402†	-1316.9	38.7	0.2666 ug/L	0.2666 ppb	15:25:15
2	Zn 213.857†	649.0	26.4	0.2477 ug/L	0.2477 ppb	15:25:35
2	SiO2†	518.6	61.2	4.1335 ug/L	4.1335 ppb	15:26:11
3	Sc Radial	5255.9	5255.9	103 %		15:24:23
3	Y RADIAL	5633.2	5633.2	102.3 %		15:24:23
3	Al 396.153Radial†	-2.5	3.7	2.9903 ug/L	2.9903 ppb	15:24:23
3	Ca 317.933Radial†	20.0	0.3	0.5165 ug/L	0.5165 ppb	15:24:43
3	Fe 238.204 Radial†	8.7	-3.1	-26.062 ug/L	-26.062 ppb	15:24:43
3	K 766.490 Radial†	2510.2	-65.8	-11.994 ug/L	-11.994 ppb	15:24:23
3	Mg 279.077 IEC†	2.6	-0.5	-17.894 ug/L	-17.894 ppb	15:24:43
3	Na 589.592 Radial†	-1219.7	120.5	34.536 ug/L	34.536 ppb	15:24:23
3	Sr 421.552†	-9.4	-18.9	-0.1206 ug/L	-0.1206 ppb	15:24:23
3	Sc 361.383	862318.6	862318.6	100.49 %		15:25:40
3	Y 371.029	729727.8	729727.8	100.28 %		15:25:40
3	Ag 328.068†	287.5	-71.0	-0.3321 ug/L	-0.3321 ppb	15:25:40
3	As 188.979†	-12.8	11.2	4.7880 ug/L	4.7880 ppb	15:26:00
3	B 249.677†	-412.2	204.9	4.6044 ug/L	4.6044 ppb	15:26:00
3	Ba 233.527†	-11.7	-3.1	-0.0241 ug/L	-0.0241 ppb	15:26:00
3	Be 313.107†	-4481.2	15.5	0.0062 ug/L	0.0062 ppb	15:25:40
3	Cd 226.502†	-176.4	26.1	0.2893 ug/L	0.2893 ppb	15:26:00
3	Co 228.616†	-97.3	-19.5	-0.3972 ug/L	-0.3972 ppb	15:26:00
3	Cr 267.716†	53.8	-25.4	-0.2820 ug/L	-0.2820 ppb	15:26:00
3	Cu 324.752†	6383.3	-50.5	-0.1516 ug/L	-0.1516 ppb	15:25:40
3	Mn 257.610†	375.9	-55.7	-0.0629 ug/L	-0.0629 ppb	15:26:00
3	Mo 202.031†	16.1	-5.6	-0.3907 ug/L	-0.3907 ppb	15:26:00
3	Ni 231.604†	64.9	-2.5	-0.0609 ug/L	-0.0609 ppb	15:26:00
3	P 214.914†	226.5	5.1	3.1275 ug/L	3.1275 ppb	15:26:00
3	Pb 220.353†	-92.1	-29.4	-3.5611 ug/L	-3.5611 ppb	15:26:00
3	S 181.975 Axial†	45.3	1.2	1.6618 ug/L	1.6618 ppb	15:26:00
3	Sb 206.836†	45.6	11.9	4.0527 ug/L	4.0527 ppb	15:26:00
3	Se 196.026†	-35.9	-3.7	-2.3981 ug/L	-2.3981 ppb	15:26:00
3	Si 251.611†	511.1	47.9	1.5203 ug/L	1.5203 ppb	15:26:00
3	Sn 189.927†	4.0	2.3	0.4073 ug/L	0.4073 ppb	15:26:00
3	Ti 334.940†	-1250.0	90.3	0.1467 ug/L	0.1467 ppb	15:25:40
3	Tl 190.801†	-34.4	-0.2	-0.0530 ug/L	-0.0530 ppb	15:26:00
3	U 409.014†	-1911.0	-37.7	-1.1054 ug/L	-1.1054 ppb	15:25:40
3	V 292.402†	-1331.2	35.1	0.2338 ug/L	0.2338 ppb	15:25:40
3	Zn 213.857†	645.5	17.7	0.1688 ug/L	0.1688 ppb	15:26:00
3	SiO2†	516.9	55.3	3.7420 ug/L	3.7420 ppb	15:26:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861047.2	100.35 %		0.598			0.60%
Sc Radial	5250.9	103 %		0.5			0.45%
Y 371.029	728256.5	100.08 %		0.545			0.54%
Y RADIAL	5635.8	102.4 %		0.45			0.44%
Ag 328.068†	-60.3	-0.2837 ug/L		0.11332	-0.2837 ppb	0.11332	39.94%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-7.7	-6.1809 ug/L		9.19995	-6.1809 ppb	9.19995	148.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	7.3	3.1253 ug/L		1.46853	3.1253 ppb	1.46853	46.99%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	202.8	4.5550 ug/L		0.06955	4.5550 ppb	0.06955	1.53%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-6.3	-0.0494 ug/L		0.04113	-0.0494 ppb	0.04113	83.32%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-29.7	-0.0110 ug/L		0.01830	-0.0110 ppb	0.01830	167.06%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.2	0.3928 ug/L		4.83315	0.3928 ppb	4.83315	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	11.3	0.1264 ug/L	0.14887	0.1264 ppb	0.14887	117.81%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-9.7	-0.1964 ug/L	0.17999	-0.1964 ppb	0.17999	91.66%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-8.4	-0.0938 ug/L	0.16455	-0.0938 ppb	0.16455	175.38%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-24.0	-0.0735 ug/L	0.22107	-0.0735 ppb	0.22107	300.67%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.2	-19.119 ug/L	9.0325	-19.119 ppb	9.0325	47.24%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	90.4	16.451 ug/L	25.0682	16.451 ppb	25.0682	152.38%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.3	-44.138 ug/L	31.5381	-44.138 ppb	31.5381	71.45%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-17.9	-0.0197 ug/L	0.03805	-0.0197 ppb	0.03805	192.83%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.6	-0.0420 ug/L	0.39988	-0.0420 ppb	0.39988	953.22%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	127.8	36.633 ug/L	1.8180	36.633 ppb	1.8180	4.96%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-7.9	-0.1961 ug/L	0.38750	-0.1961 ppb	0.38750	197.64%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.2	5.5481 ug/L	6.17261	5.5481 ppb	6.17261	111.26%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.3	-0.6405 ug/L	2.53046	-0.6405 ppb	2.53046	395.07%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.3	6.0389 ug/L	6.00844	6.0389 ppb	6.00844	99.50%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	12.0	4.0890 ug/L	0.95804	4.0890 ppb	0.95804	23.43%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.8	-1.1917 ug/L	1.55646	-1.1917 ppb	1.55646	130.61%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	46.0	1.4556 ug/L	0.05624	1.4556 ppb	0.05624	3.86%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.2	0.7379 ug/L	0.66242	0.7379 ppb	0.66242	89.77%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-2.7	-0.0174 ug/L	0.11305	-0.0174 ppb	0.11305	649.89%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	78.7	0.1290 ug/L	0.01690	0.1290 ppb	0.01690	13.10%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.8	-0.2346 ug/L	0.65600	-0.2346 ppb	0.65600	279.68%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	47.7	1.4057 ug/L	2.28945	1.4057 ppb	2.28945	162.86%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	9.2	0.0665 ug/L	0.31862	0.0665 ppb	0.31862	479.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	22.8	0.2174 ug/L	0.04251	0.2174 ppb	0.04251	19.55%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	60.0	4.0460 ug/L	0.27106	4.0460 ppb	0.27106	6.70%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 21
 Sample ID: 1202006013|937474|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:
 User canceled analysis.

Autosampler Location: 51
 Date Collected: 1/12/2010 16:30:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Analysis Begun

Start Time: 1/12/2010 16:37:36
 Logged In Analyst: Optima3
 Spectrometer Model: Optima 5300 DV, S/N 077C7090601

Plasma On Time: 1/11/2010 06:15:31
 Technique: ICP Continuous
 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\011210.sif
 Batch ID:
 Results Data Set: 011210
 Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 10
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/12/2010 16:37:37
 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	5168.0	5168.0	101 %		16:39:29
1	Y RADIAL	5450.0	5450.0	98.99 %		16:39:29
1	Al 396.153Radial†	6474.6	6421.8	5111.7 ug/L	5111.7 ppb	16:39:29
1	Ca 317.933Radial†	3212.3	3163.8	5107.2 ug/L	5107.2 ppb	16:39:49
1	Fe 238.204 Radial†	610.5	593.4	5060.9 ug/L	5060.9 ppb	16:39:49
1	K 766.490 Radial†	30267.6	27480.3	4998.1 ug/L	4998.1 ppb	16:39:29
1	Mg 279.077 IEC†	159.9	155.4	5161.3 ug/L	5161.3 ppb	16:39:49
1	Na 589.592 Radial†	32141.7	33157.8	9504.7 ug/L	9504.7 ppb	16:39:29
1	Sr 421.552†	77498.4	76782.6	490.18 ug/L	490.18 ppb	16:39:29
1	Sc 361.383	872998.3	872998.3	101.74 %		16:40:47
1	Y 371.029	726407.0	726407.0	99.827 %		16:40:47
1	Ag 328.068†	112133.1	109858.7	507.22 ug/L	507.22 ppb	16:40:52
1	As 188.979†	1167.9	1171.9	505.39 ug/L	505.39 ppb	16:41:12
1	B 249.677†	22264.1	22498.5	502.73 ug/L	502.73 ppb	16:40:52
1	Ba 233.527†	65709.8	64594.9	501.75 ug/L	501.75 ppb	16:40:52
1	Be 313.107†	1367645.3	1348735.5	510.74 ug/L	510.74 ppb	16:40:47
1	Cd 226.502†	46168.4	45580.6	501.31 ug/L	501.31 ppb	16:40:52
1	Co 228.616†	25187.1	24833.7	503.95 ug/L	503.95 ppb	16:40:52
1	Cr 267.716†	45790.1	44928.2	499.07 ug/L	499.07 ppb	16:40:52
1	Cu 324.752†	175771.3	166363.5	496.27 ug/L	496.27 ppb	16:40:52
1	Mn 257.610†	469179.2	460727.2	505.55 ug/L	505.55 ppb	16:40:47
1	Mo 202.031†	7323.7	7176.9	501.23 ug/L	501.23 ppb	16:41:12
1	Ni 231.604†	20712.5	20291.3	501.84 ug/L	501.84 ppb	16:40:52
1	P 214.914†	4456.6	4160.1	2381.2 ug/L	2381.2 ppb	16:41:12
1	Pb 220.353†	4138.1	4129.6	501.48 ug/L	501.48 ppb	16:41:12
1	S 181.975 Axial†	784.4	727.2	1011.0 ug/L	1011.0 ppb	16:41:12
1	Sb 206.836†	1526.7	1467.1	515.31 ug/L	515.31 ppb	16:41:12
1	Se 196.026†	780.5	799.2	520.06 ug/L	520.06 ppb	16:41:12
1	Si 251.611†	81272.2	79421.9	2508.0 ug/L	2508.0 ppb	16:40:52
1	Sn 189.927†	2928.4	2876.6	502.05 ug/L	502.05 ppb	16:41:12
1	Ti 334.940†	322696.1	318512.7	509.89 ug/L	509.89 ppb	16:40:47
1	Tl 190.801†	1655.4	1661.2	505.02 ug/L	505.02 ppb	16:41:12
1	U 409.014†	15811.9	17405.4	510.70 ug/L	510.70 ppb	16:40:52
1	V 292.402†	73510.4	73613.2	505.99 ug/L	505.99 ppb	16:40:52
1	Zn 213.857†	55306.7	53736.4	500.08 ug/L	500.08 ppb	16:40:52
1	SiO2†	81238.3	79390.2	5341.1 ug/L	5341.1 ppb	16:42:20
2	Sc Radial	5099.6	5099.6	99.6 %		16:39:54
2	Y RADIAL	5413.6	5413.6	98.33 %		16:39:54
2	Al 396.153Radial†	6527.8	6561.4	5223.2 ug/L	5223.2 ppb	16:39:54

2	Ca 317.933Radial†	3226.9	3221.2	5199.8 ug/L	5199.8 ppb	16:40:14
2	Fe 238.204 Radial†	613.7	604.7	5156.6 ug/L	5156.6 ppb	16:40:14
2	K 766.490 Radial†	30224.6	27839.7	5063.5 ug/L	5063.5 ppb	16:39:54
2	Mg 279.077 IEC†	165.2	162.8	5407.2 ug/L	5407.2 ppb	16:40:14
2	Na 589.592 Radial†	32021.2	33464.1	9592.5 ug/L	9592.5 ppb	16:39:54
2	Sr 421.552†	77501.0	77815.8	496.78 ug/L	496.78 ppb	16:39:54
2	Sc 361.383	870542.5	870542.5	101.45 %		16:41:18
2	Y 371.029	722660.3	722660.3	99.312 %		16:41:18
2	Ag 328.068†	113319.6	111339.2	514.07 ug/L	514.07 ppb	16:41:23
2	As 188.979†	1174.0	1181.1	509.37 ug/L	509.37 ppb	16:41:43
2	B 249.677†	22517.1	22809.6	509.68 ug/L	509.68 ppb	16:41:23
2	Ba 233.527†	66222.2	65282.1	507.09 ug/L	507.09 ppb	16:41:23
2	Be 313.107†	1364652.9	1349578.2	511.06 ug/L	511.06 ppb	16:41:18
2	Cd 226.502†	46746.7	46278.6	508.98 ug/L	508.98 ppb	16:41:23
2	Co 228.616†	25428.1	25141.1	510.19 ug/L	510.19 ppb	16:41:23
2	Cr 267.716†	46281.2	45539.2	505.86 ug/L	505.86 ppb	16:41:23
2	Cu 324.752†	178438.0	169479.3	505.57 ug/L	505.57 ppb	16:41:23
2	Mn 257.610†	470193.7	463028.1	508.08 ug/L	508.08 ppb	16:41:18
2	Mo 202.031†	7341.2	7214.4	503.85 ug/L	503.85 ppb	16:41:43
2	Ni 231.604†	20894.2	20527.8	507.69 ug/L	507.69 ppb	16:41:23
2	P 214.914†	4467.8	4183.5	2393.1 ug/L	2393.1 ppb	16:41:43
2	Pb 220.353†	4159.2	4161.8	505.39 ug/L	505.39 ppb	16:41:43
2	S 181.975 Axial†	788.7	733.6	1019.9 ug/L	1019.9 ppb	16:41:43
2	Sb 206.836†	1534.0	1478.6	519.30 ug/L	519.30 ppb	16:41:43
2	Se 196.026†	784.9	805.6	524.45 ug/L	524.45 ppb	16:41:43
2	Si 251.611†	82361.9	80721.4	2549.1 ug/L	2549.1 ppb	16:41:23
2	Sn 189.927†	2939.1	2895.4	505.33 ug/L	505.33 ppb	16:41:43
2	Ti 334.940†	322767.0	319477.4	511.42 ug/L	511.42 ppb	16:41:18
2	Tl 190.801†	1654.3	1664.7	506.05 ug/L	506.05 ppb	16:41:43
2	U 409.014†	15810.8	17448.1	511.94 ug/L	511.94 ppb	16:41:23
2	V 292.402†	74091.8	74390.1	511.28 ug/L	511.28 ppb	16:41:23
2	Zn 213.857†	55916.4	54490.7	507.10 ug/L	507.10 ppb	16:41:23
2	SiO2†	81830.2	80198.9	5395.6 ug/L	5395.6 ppb	16:42:25
3	Sc Radial	5210.0	5210.0	102 %		16:40:19
3	Y RADIAL	5503.0	5503.0	99.96 %		16:40:19
3	Al 396.153Radial†	6560.0	6454.0	5137.3 ug/L	5137.3 ppb	16:40:19
3	Ca 317.933Radial†	3229.1	3154.6	5092.4 ug/L	5092.4 ppb	16:40:39
3	Fe 238.204 Radial†	615.2	593.1	5058.5 ug/L	5058.5 ppb	16:40:39
3	K 766.490 Radial†	30428.4	27396.6	4982.9 ug/L	4982.9 ppb	16:40:19
3	Mg 279.077 IEC†	161.9	156.0	5181.9 ug/L	5181.9 ppb	16:40:39
3	Na 589.592 Radial†	32319.9	33076.1	9481.3 ug/L	9481.3 ppb	16:40:19
3	Sr 421.552†	78061.7	76717.2	489.77 ug/L	489.77 ppb	16:40:19
3	Sc 361.383	865526.3	865526.3	100.87 %		16:41:49
3	Y 371.029	718990.0	718990.0	98.808 %		16:41:49
3	Ag 328.068†	113313.9	111980.9	516.99 ug/L	516.99 ppb	16:41:54
3	As 188.979†	1163.7	1177.6	507.81 ug/L	507.81 ppb	16:42:14
3	B 249.677†	22726.4	23145.8	517.22 ug/L	517.22 ppb	16:41:54
3	Ba 233.527†	66387.7	65824.5	511.29 ug/L	511.29 ppb	16:41:54
3	Be 313.107†	1348141.4	1341004.7	507.82 ug/L	507.82 ppb	16:41:49
3	Cd 226.502†	46552.7	46353.3	509.82 ug/L	509.82 ppb	16:41:54
3	Co 228.616†	25490.7	25348.4	514.40 ug/L	514.40 ppb	16:41:54
3	Cr 267.716†	46239.9	45762.6	508.34 ug/L	508.34 ppb	16:41:54
3	Cu 324.752†	178657.0	170715.8	509.25 ug/L	509.25 ppb	16:41:54
3	Mn 257.610†	464741.8	460309.2	505.09 ug/L	505.09 ppb	16:41:49
3	Mo 202.031†	7289.6	7205.2	503.20 ug/L	503.20 ppb	16:42:14
3	Ni 231.604†	20940.9	20693.5	511.79 ug/L	511.79 ppb	16:41:54
3	P 214.914†	4416.2	4157.8	2376.8 ug/L	2376.8 ppb	16:42:14
3	Pb 220.353†	4103.8	4130.7	501.62 ug/L	501.62 ppb	16:42:14
3	S 181.975 Axial†	777.9	727.3	1011.2 ug/L	1011.2 ppb	16:42:14
3	Sb 206.836†	1508.0	1461.6	513.53 ug/L	513.53 ppb	16:42:14
3	Se 196.026†	777.2	802.6	522.21 ug/L	522.21 ppb	16:42:14
3	Si 251.611†	82448.4	81277.7	2566.8 ug/L	2566.8 ppb	16:41:54
3	Sn 189.927†	2920.1	2893.3	504.95 ug/L	504.95 ppb	16:42:14
3	Ti 334.940†	319319.0	317902.8	508.90 ug/L	508.90 ppb	16:41:49
3	Tl 190.801†	1643.7	1663.6	505.67 ug/L	505.67 ppb	16:42:14
3	U 409.014†	15896.3	17623.2	517.10 ug/L	517.10 ppb	16:41:54
3	V 292.402†	74237.0	74957.3	515.14 ug/L	515.14 ppb	16:41:54
3	Zn 213.857†	55837.9	54732.3	509.35 ug/L	509.35 ppb	16:41:54
3	SiO2†	81357.6	80197.9	5395.5 ug/L	5395.5 ppb	16:42:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	869689.0	101.35 %	0.444			0.44%
Sc Radial	5159.2	101 %	1.1			1.08%
Y 371.029	722685.8	99.316 %	0.5097			0.51%
Y RADIAL	5455.5	99.09 %	0.817			0.82%
Ag 328.068†	111059.6	512.76 ug/L	5.013	512.76 ppb	5.013	0.98%
QC value within limits for Ag 328.068 Recovery = 102.55%						
Al 396.153Radial†	6479.0	5157.4 ug/L	58.40	5157.4 ppb	58.40	1.13%
QC value within limits for Al 396.153Radial Recovery = 103.15%						
As 188.979†	1176.9	507.52 ug/L	2.005	507.52 ppb	2.005	0.39%
QC value within limits for As 188.979 Recovery = 101.50%						
B 249.677†	22818.0	509.88 ug/L	7.251	509.88 ppb	7.251	1.42%
QC value within limits for B 249.677 Recovery = 101.98%						
Ba 233.527†	65233.8	506.71 ug/L	4.785	506.71 ppb	4.785	0.94%
QC value within limits for Ba 233.527 Recovery = 101.34%						
Be 313.107†	1346439.4	509.88 ug/L	1.788	509.88 ppb	1.788	0.35%
QC value within limits for Be 313.107 Recovery = 101.98%						
Ca 317.933Radial†	3179.9	5133.1 ug/L	58.22	5133.1 ppb	58.22	1.13%
QC value within limits for Ca 317.933Radial Recovery = 102.66%						
Cd 226.502†	46070.9	506.70 ug/L	4.690	506.70 ppb	4.690	0.93%
QC value within limits for Cd 226.502 Recovery = 101.34%						
Co 228.616†	25107.7	509.51 ug/L	5.258	509.51 ppb	5.258	1.03%
QC value within limits for Co 228.616 Recovery = 101.90%						
Cr 267.716†	45410.0	504.43 ug/L	4.798	504.43 ppb	4.798	0.95%
QC value within limits for Cr 267.716 Recovery = 100.89%						
Cu 324.752†	168852.9	503.70 ug/L	6.689	503.70 ppb	6.689	1.33%
QC value within limits for Cu 324.752 Recovery = 100.74%						
Fe 238.204 Radial†	597.1	5092.0 ug/L	55.98	5092.0 ppb	55.98	1.10%
QC value within limits for Fe 238.204 Radial Recovery = 101.84%						
K 766.490 Radial†	27572.2	5014.9 ug/L	42.82	5014.9 ppb	42.82	0.85%
QC value within limits for K 766.490 Radial Recovery = 100.30%						
Mg 279.077 IEC†	158.1	5250.1 ug/L	136.40	5250.1 ppb	136.40	2.60%
QC value within limits for Mg 279.077 IEC Recovery = 105.00%						
Mn 257.610†	461354.9	506.24 ug/L	1.606	506.24 ppb	1.606	0.32%
QC value within limits for Mn 257.610 Recovery = 101.25%						
Mo 202.031†	7198.8	502.76 ug/L	1.367	502.76 ppb	1.367	0.27%
QC value within limits for Mo 202.031 Recovery = 100.55%						
Na 589.592 Radial†	33232.7	9526.2 ug/L	58.64	9526.2 ppb	58.64	0.62%
QC value within limits for Na 589.592 Radial Recovery = 95.26%						
Ni 231.604†	20504.2	507.11 ug/L	4.999	507.11 ppb	4.999	0.99%
QC value within limits for Ni 231.604 Recovery = 101.42%						
P 214.914†	4167.2	2383.7 ug/L	8.40	2383.7 ppb	8.40	0.35%
QC value within limits for P 214.914 Recovery = 95.35%						
Pb 220.353†	4140.7	502.83 ug/L	2.221	502.83 ppb	2.221	0.44%
QC value within limits for Pb 220.353 Recovery = 100.57%						
S 181.975 Axial†	729.3	1014.0 ug/L	5.09	1014.0 ppb	5.09	0.50%
QC value within limits for S 181.975 Axial Recovery = 101.40%						
Sb 206.836†	1469.1	516.05 ug/L	2.958	516.05 ppb	2.958	0.57%
QC value within limits for Sb 206.836 Recovery = 103.21%						
Se 196.026†	802.5	522.24 ug/L	2.191	522.24 ppb	2.191	0.42%
QC value within limits for Se 196.026 Recovery = 104.45%						
Si 251.611†	80473.7	2541.3 ug/L	30.13	2541.3 ppb	30.13	1.19%
QC value within limits for Si 251.611 Recovery = 101.65%						
Sn 189.927†	2888.4	504.11 ug/L	1.794	504.11 ppb	1.794	0.36%
QC value within limits for Sn 189.927 Recovery = 100.82%						
Sr 421.552†	77105.2	492.24 ug/L	3.934	492.24 ppb	3.934	0.80%
QC value within limits for Sr 421.552 Recovery = 98.45%						
Ti 334.940†	318631.0	510.07 ug/L	1.270	510.07 ppb	1.270	0.25%
QC value within limits for Ti 334.940 Recovery = 102.01%						
Tl 190.801†	1663.2	505.58 ug/L	0.524	505.58 ppb	0.524	0.10%
QC value within limits for Tl 190.801 Recovery = 101.12%						
U 409.014†	17492.3	513.25 ug/L	3.391	513.25 ppb	3.391	0.66%
QC value within limits for U 409.014 Recovery = 102.65%						
V 292.402†	74320.2	510.80 ug/L	4.594	510.80 ppb	4.594	0.90%
QC value within limits for V 292.402 Recovery = 102.16%						
Zn 213.857†	54319.8	505.51 ug/L	4.835	505.51 ppb	4.835	0.96%
QC value within limits for Zn 213.857 Recovery = 101.10%						
SiO2†	79929.0	5377.4 ug/L	31.43	5377.4 ppb	31.43	0.58%
QC value within limits for SiO2 Recovery = 100.56%						

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/12/2010 16:44:41

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	5218.4	5218.4	102 %		16:46:34
1	Y RADIAL	5573.5	5573.5	101.2 %		16:46:34
1	Al 396.153Radial†	-15.3	-8.9	-7.1141 ug/L	-7.1141 ppb	16:46:34
1	Ca 317.933Radial†	21.4	1.8	2.8711 ug/L	2.8711 ppb	16:46:54
1	Fe 238.204 Radial†	9.6	-2.1	-17.792 ug/L	-17.792 ppb	16:46:54
1	K 766.490 Radial†	2733.4	170.8	31.100 ug/L	31.100 ppb	16:46:34
1	Mg 279.077 IEC†	2.1	-1.0	-32.518 ug/L	-32.518 ppb	16:46:54
1	Na 589.592 Radial†	-1270.0	62.6	17.949 ug/L	17.949 ppb	16:46:34
1	Sr 421.552†	-23.6	-32.9	-0.2100 ug/L	-0.2100 ppb	16:46:34
1	Sc 361.383	860706.5	860706.5	100.31 %		16:47:50
1	Y 371.029	727524.4	727524.4	99.981 %		16:47:50
1	Ag 328.068†	336.5	-21.6	-0.1033 ug/L	-0.1033 ppb	16:47:55
1	As 188.979†	-14.4	9.6	4.1016 ug/L	4.1016 ppb	16:48:15
1	B 249.677†	-264.3	351.6	7.8955 ug/L	7.8955 ppb	16:48:15
1	Ba 233.527†	-3.7	4.9	0.0370 ug/L	0.0370 ppb	16:48:15
1	Be 313.107†	-4535.9	-47.4	-0.0179 ug/L	-0.0179 ppb	16:47:55
1	Cd 226.502†	-175.7	26.5	0.2924 ug/L	0.2924 ppb	16:48:15
1	Co 228.616†	-87.1	-9.6	-0.1930 ug/L	-0.1930 ppb	16:48:15
1	Cr 267.716†	86.1	6.9	0.0766 ug/L	0.0766 ppb	16:48:15
1	Cu 324.752†	6402.2	-19.8	-0.0590 ug/L	-0.0590 ppb	16:47:55
1	Mn 257.610†	423.5	-7.6	-0.0088 ug/L	-0.0088 ppb	16:48:15
1	Mo 202.031†	28.8	7.1	0.4933 ug/L	0.4933 ppb	16:48:15
1	Ni 231.604†	65.1	-2.1	-0.0524 ug/L	-0.0524 ppb	16:48:15
1	P 214.914†	218.7	-2.3	-1.3528 ug/L	-1.3528 ppb	16:48:15
1	Pb 220.353†	-63.0	-0.6	-0.0693 ug/L	-0.0693 ppb	16:48:15
1	S 181.975 Axial†	43.7	-0.3	-0.3568 ug/L	-0.3568 ppb	16:48:15
1	Sb 206.836†	36.8	3.2	1.1274 ug/L	1.1274 ppb	16:48:15
1	Se 196.026†	-27.7	4.4	2.7147 ug/L	2.7147 ppb	16:48:15
1	Si 251.611†	545.7	83.4	2.6337 ug/L	2.6337 ppb	16:48:15
1	Sn 189.927†	8.2	6.5	1.1376 ug/L	1.1376 ppb	16:48:15
1	Ti 334.940†	-1321.3	16.9	0.0310 ug/L	0.0310 ppb	16:47:55
1	Tl 190.801†	-34.9	-0.7	-0.2031 ug/L	-0.2031 ppb	16:48:15
1	U 409.014†	-1938.6	-68.8	-2.0243 ug/L	-2.0243 ppb	16:47:50
1	V 292.402†	-1371.8	-7.9	-0.0480 ug/L	-0.0480 ppb	16:47:55
1	Zn 213.857†	692.1	65.3	0.6154 ug/L	0.6154 ppb	16:48:15
1	SiO2†	586.6	125.8	8.4731 ug/L	8.4731 ppb	16:49:21
2	Sc Radial	5184.3	5184.3	101 %		16:46:59
2	Y RADIAL	5539.4	5539.4	100.6 %		16:46:59
2	Al 396.153Radial†	-7.0	-0.7	-0.5625 ug/L	-0.5625 ppb	16:46:59
2	Ca 317.933Radial†	17.5	-1.9	-3.0519 ug/L	-3.0519 ppb	16:47:19
2	Fe 238.204 Radial†	9.6	-2.1	-17.883 ug/L	-17.883 ppb	16:47:19
2	K 766.490 Radial†	2864.9	318.3	57.947 ug/L	57.947 ppb	16:46:59
2	Mg 279.077 IEC†	1.0	-2.1	-69.771 ug/L	-69.771 ppb	16:47:19
2	Na 589.592 Radial†	-1203.9	119.7	34.315 ug/L	34.315 ppb	16:46:59
2	Sr 421.552†	15.6	5.7	0.0363 ug/L	0.0363 ppb	16:46:59
2	Sc 361.383	873944.8	873944.8	101.85 %		16:48:21
2	Y 371.029	737504.9	737504.9	101.35 %		16:48:21
2	Ag 328.068†	387.1	23.0	0.1084 ug/L	0.1084 ppb	16:48:26
2	As 188.979†	-21.8	2.5	1.0686 ug/L	1.0686 ppb	16:48:46
2	B 249.677†	-292.5	328.0	7.3636 ug/L	7.3636 ppb	16:48:46
2	Ba 233.527†	-10.9	-2.1	-0.0149 ug/L	-0.0149 ppb	16:48:46
2	Be 313.107†	-4530.7	26.3	0.0101 ug/L	0.0101 ppb	16:48:26
2	Cd 226.502†	-178.8	26.1	0.2877 ug/L	0.2877 ppb	16:48:46
2	Co 228.616†	-72.2	6.3	0.1293 ug/L	0.1293 ppb	16:48:46
2	Cr 267.716†	96.6	15.9	0.1790 ug/L	0.1790 ppb	16:48:46
2	Cu 324.752†	6419.5	-99.5	-0.2944 ug/L	-0.2944 ppb	16:48:26
2	Mn 257.610†	437.4	-0.3	0.0007 ug/L	0.0007 ppb	16:48:46
2	Mo 202.031†	25.0	2.9	0.2022 ug/L	0.2022 ppb	16:48:46
2	Ni 231.604†	59.9	-8.2	-0.2020 ug/L	-0.2020 ppb	16:48:46

2	P 214.914†	220.0	-4.3	-2.4558 ug/L	-2.4558 ppb	16:48:46
2	Pb 220.353†	-36.2	26.6	3.2234 ug/L	3.2234 ppb	16:48:46
2	S 181.975 Axial†	47.9	3.2	4.4351 ug/L	4.4351 ppb	16:48:46
2	Sb 206.836†	40.5	6.4	2.1928 ug/L	2.1928 ppb	16:48:46
2	Se 196.026†	-33.1	-0.5	-0.3370 ug/L	-0.3370 ppb	16:48:46
2	Si 251.611†	519.7	49.6	1.5665 ug/L	1.5665 ppb	16:48:46
2	Sn 189.927†	12.1	10.2	1.7774 ug/L	1.7774 ppb	16:48:46
2	Ti 334.940†	-1310.7	47.2	0.0835 ug/L	0.0835 ppb	16:48:26
2	Tl 190.801†	-41.5	-6.7	-2.0239 ug/L	-2.0239 ppb	16:48:46
2	U 409.014†	-2110.9	-208.7	-6.1418 ug/L	-6.1418 ppb	16:48:21
2	V 292.402†	-1268.1	114.7	0.7701 ug/L	0.7701 ppb	16:48:26
2	Zn 213.857†	691.3	54.1	0.5116 ug/L	0.5116 ppb	16:48:46
2	SiO2†	540.0	71.2	4.7955 ug/L	4.7955 ppb	16:49:26
3	Sc Radial	5230.9	5230.9	102 %		16:47:24
3	Y RADIAL	5568.2	5568.2	101.1 %		16:47:24
3	Al 396.153Radial†	-0.3	5.9	4.7145 ug/L	4.7145 ppb	16:47:24
3	Ca 317.933Radial†	22.7	3.0	4.8329 ug/L	4.8329 ppb	16:47:44
3	Fe 238.204 Radial†	10.3	-1.5	-12.710 ug/L	-12.710 ppb	16:47:44
3	K 766.490 Radial†	2706.3	137.9	25.102 ug/L	25.102 ppb	16:47:24
3	Mg 279.077 IEC†	3.0	-0.1	-3.0016 ug/L	-3.0016 ppb	16:47:44
3	Na 589.592 Radial†	-1233.4	101.4	29.061 ug/L	29.061 ppb	16:47:24
3	Sr 421.552†	2.5	-7.3	-0.0467 ug/L	-0.0467 ppb	16:47:24
3	Sc 361.383	866602.9	866602.9	100.99 %		16:48:51
3	Y 371.029	731442.2	731442.2	100.52 %		16:48:51
3	Ag 328.068†	264.8	-94.9	-0.4343 ug/L	-0.4343 ppb	16:48:56
3	As 188.979†	-26.7	-2.5	-1.0819 ug/L	-1.0819 ppb	16:49:16
3	B 249.677†	-250.0	367.5	8.2513 ug/L	8.2513 ppb	16:49:16
3	Ba 233.527†	-17.0	-8.3	-0.0642 ug/L	-0.0642 ppb	16:49:16
3	Be 313.107†	-4528.8	-9.5	-0.0032 ug/L	-0.0032 ppb	16:48:56
3	Cd 226.502†	-193.5	10.0	0.1107 ug/L	0.1107 ppb	16:49:16
3	Co 228.616†	-76.0	1.9	0.0388 ug/L	0.0388 ppb	16:49:16
3	Cr 267.716†	77.4	-2.3	-0.0237 ug/L	-0.0237 ppb	16:49:16
3	Cu 324.752†	6433.2	-32.5	-0.0949 ug/L	-0.0949 ppb	16:48:56
3	Mn 257.610†	429.5	-4.5	-0.0061 ug/L	-0.0061 ppb	16:49:16
3	Mo 202.031†	19.2	-2.6	-0.1856 ug/L	-0.1856 ppb	16:49:16
3	Ni 231.604†	70.8	3.1	0.0768 ug/L	0.0768 ppb	16:49:16
3	P 214.914†	239.8	17.1	10.318 ug/L	10.318 ppb	16:49:16
3	Pb 220.353†	-73.2	-10.3	-1.2396 ug/L	-1.2396 ppb	16:49:16
3	S 181.975 Axial†	49.5	5.2	7.2009 ug/L	7.2009 ppb	16:49:16
3	Sb 206.836†	37.9	4.1	1.3937 ug/L	1.3937 ppb	16:49:16
3	Se 196.026†	-36.4	-4.0	-2.5865 ug/L	-2.5865 ppb	16:49:16
3	Si 251.611†	516.7	51.0	1.6162 ug/L	1.6162 ppb	16:49:16
3	Sn 189.927†	5.6	3.9	0.6846 ug/L	0.6846 ppb	16:49:16
3	Ti 334.940†	-1222.7	123.4	0.2008 ug/L	0.2008 ppb	16:48:56
3	Tl 190.801†	-39.1	-4.6	-1.3988 ug/L	-1.3988 ppb	16:49:16
3	U 409.014†	-2057.2	-173.0	-5.0926 ug/L	-5.0926 ppb	16:48:51
3	V 292.402†	-1343.6	29.4	0.1883 ug/L	0.1883 ppb	16:48:56
3	Zn 213.857†	695.1	63.6	0.5983 ug/L	0.5983 ppb	16:49:16
3	SiO2†	549.5	85.1	5.7435 ug/L	5.7435 ppb	16:49:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867084.7	101.05 %	0.773			0.76%
Sc Radial	5211.2	102 %	0.5			0.46%
Y 371.029	732157.2	100.62 %	0.691			0.69%
Y RADIAL	5560.4	101.0 %	0.33			0.33%
Ag 328.068†	-31.1	-0.1431 ug/L	0.27350	-0.1431 ppb	0.27350	191.19%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.2	-0.9874 ug/L	5.92572	-0.9874 ppb	5.92572	600.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.2	1.3628 ug/L	2.60425	1.3628 ppb	2.60425	191.10%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	349.0	7.8368 ug/L	0.44675	7.8368 ppb	0.44675	5.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.8	-0.0140 ug/L	0.05056	-0.0140 ppb	0.05056	360.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-10.2	-0.0036 ug/L	0.01398	-0.0036 ppb	0.01398	384.53%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.0	1.5507 ug/L	4.10487	1.5507 ppb	4.10487	264.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	20.9	0.2303 ug/L	0.10358	0.2303 ppb	0.10358	44.98%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-0.4	-0.0083 ug/L	0.16623	-0.0083 ppb	0.16623	>999.9%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	6.8	0.0773 ug/L	0.10138	0.0773 ppb	0.10138	131.10%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-50.6	-0.1494 ug/L	0.12686	-0.1494 ppb	0.12686	84.90%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-1.9	-16.128 ug/L	2.9608	-16.128 ppb	2.9608	18.36%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	209.0	38.050 ug/L	17.4906	38.050 ppb	17.4906	45.97%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.1	-35.097 ug/L	33.4592	-35.097 ppb	33.4592	95.33%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-4.2	-0.0047 ug/L	0.00488	-0.0047 ppb	0.00488	103.49%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	2.5	0.1700 ug/L	0.34062	0.1700 ppb	0.34062	200.38%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	94.6	27.109 ug/L	8.3558	27.109 ppb	8.3558	30.82%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-2.4	-0.0592 ug/L	0.13953	-0.0592 ppb	0.13953	235.56%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	3.5	2.1699 ug/L	7.07818	2.1699 ppb	7.07818	326.20%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	5.3	0.6382 ug/L	2.31407	0.6382 ppb	2.31407	362.62%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	2.7	3.7598 ug/L	3.82385	3.7598 ppb	3.82385	101.70%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	4.6	1.5713 ug/L	0.55445	1.5713 ppb	0.55445	35.29%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-0.0	-0.0696 ug/L	2.66068	-0.0696 ppb	2.66068	>999.9%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	61.3	1.9388 ug/L	0.60229	1.9388 ppb	0.60229	31.07%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	6.9	1.1998 ug/L	0.54903	1.1998 ppb	0.54903	45.76%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-11.5	-0.0735 ug/L	0.12530	-0.0735 ppb	0.12530	170.57%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	62.5	0.1051 ug/L	0.08693	0.1051 ppb	0.08693	82.70%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-4.0	-1.2086 ug/L	0.92516	-1.2086 ppb	0.92516	76.55%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-150.2	-4.4196 ug/L	2.13966	-4.4196 ppb	2.13966	48.41%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	45.4	0.3035 ug/L	0.42103	0.3035 ppb	0.42103	138.73%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	61.0	0.5751 ug/L	0.05569	0.5751 ppb	0.05569	9.68%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		94.0	6.3373 ug/L	1.90935	6.3373 ppb	1.90935	30.13%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 15

Sample ID: 1202006004|937469|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 1/12/2010 17:12:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006004|937469|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5492.3	5492.3	107	%		17:14:26
1	Y RADIAL	5863.7	5863.7	106.5	%		17:14:26
1	Al 396.153Radial†	-9.4	-2.6	-2.0601	ug/L	-2.0601 ppb	17:14:26
1	Ca 317.933Radial†	40.8	18.8	30.380	ug/L	30.380 ppb	17:14:46
1	Fe 238.204 Radial†	9.7	-2.5	-20.983	ug/L	-20.983 ppb	17:14:46
1	K 766.490 Radial†	3303.7	568.7	103.51	ug/L	103.51 ppb	17:14:26
1	Mg 279.077 IEC†	4.3	1.0	32.646	ug/L	32.646 ppb	17:14:46
1	Na 589.592 Radial†	-880.9	487.6	139.76	ug/L	139.76 ppb	17:14:26
1	Sr 421.552†	9.1	-1.2	-0.0082	ug/L	-0.0082 ppb	17:14:26
1	Sc 361.383	903742.4	903742.4	105.32	%		17:15:43
1	Y 371.029	758640.4	758640.4	104.26	%		17:15:43
1	Ag 328.068†	376.5	0.4	-0.0055	ug/L	-0.0055 ppb	17:15:48
1	As 188.979†	-24.5	0.7	0.2832	ug/L	0.2832 ppb	17:16:08
1	B 249.677†	360.5	957.4	21.492	ug/L	21.492 ppb	17:16:08
1	Ba 233.527†	7.2	15.4	0.1210	ug/L	0.1210 ppb	17:16:08
1	Be 313.107†	-4652.2	57.5	0.0229	ug/L	0.0229 ppb	17:15:48
1	Cd 226.502†	-198.6	13.1	0.1474	ug/L	0.1474 ppb	17:16:08
1	Co 228.616†	-79.3	2.0	0.0387	ug/L	0.0387 ppb	17:16:08
1	Cr 267.716†	103.5	19.3	0.2131	ug/L	0.2131 ppb	17:16:08
1	Cu 324.752†	6862.8	113.5	0.3349	ug/L	0.3349 ppb	17:15:48
1	Mn 257.610†	675.3	211.4	0.2284	ug/L	0.2284 ppb	17:16:08
1	Mo 202.031†	17.3	-5.2	-0.3615	ug/L	-0.3615 ppb	17:16:08
1	Ni 231.604†	68.8	-1.7	-0.0422	ug/L	-0.0422 ppb	17:16:08
1	P 214.914†	241.9	9.3	5.5328	ug/L	5.5328 ppb	17:16:08
1	Pb 220.353†	-57.6	7.6	0.9146	ug/L	0.9146 ppb	17:16:08
1	S 181.975 Axial†	69.8	22.4	31.178	ug/L	31.178 ppb	17:16:08
1	Sb 206.836†	38.6	3.2	1.0574	ug/L	1.0574 ppb	17:16:08
1	Se 196.026†	-23.6	9.6	5.9838	ug/L	5.9838 ppb	17:16:08
1	Si 251.611†	45700.0	42929.9	1359.0	ug/L	1359.0 ppb	17:15:48
1	Sn 189.927†	-5.5	-6.9	-1.1980	ug/L	-1.1980 ppb	17:16:08
1	Ti 334.940†	-1074.4	314.0	0.5020	ug/L	0.5020 ppb	17:15:48
1	Tl 190.801†	-40.5	-4.4	-1.3238	ug/L	-1.3238 ppb	17:16:08
1	U 409.014†	-1789.3	165.0	4.8588	ug/L	4.8588 ppb	17:15:43
1	V 292.402†	-1295.9	129.3	0.8842	ug/L	0.8842 ppb	17:15:48
1	Zn 213.857†	776.3	112.4	1.0572	ug/L	1.0572 ppb	17:16:08
1	SiO2†	45639.3	42873.9	2891.8	ug/L	2891.8 ppb	17:17:14
2	Sc Radial	5538.4	5538.4	108	%		17:14:51
2	Y RADIAL	5901.7	5901.7	107.2	%		17:14:51
2	Al 396.153Radial†	-10.6	-3.6	-2.8444	ug/L	-2.8444 ppb	17:14:51
2	Ca 317.933Radial†	43.0	20.5	33.165	ug/L	33.165 ppb	17:15:11
2	Fe 238.204 Radial†	10.2	-2.1	-17.702	ug/L	-17.702 ppb	17:15:11
2	K 766.490 Radial†	3395.6	628.2	114.32	ug/L	114.32 ppb	17:14:51
2	Mg 279.077 IEC†	-1.1	-4.0	-133.80	ug/L	-133.80 ppb	17:15:11
2	Na 589.592 Radial†	-868.9	505.5	144.89	ug/L	144.89 ppb	17:14:51
2	Sr 421.552†	17.9	6.8	0.0432	ug/L	0.0432 ppb	17:14:51
2	Sc 361.383	894543.5	894543.5	104.25	%		17:16:13
2	Y 371.029	752156.2	752156.2	103.37	%		17:16:13
2	Ag 328.068†	312.6	-57.3	-0.2647	ug/L	-0.2647 ppb	17:16:18
2	As 188.979†	-22.6	2.2	0.9614	ug/L	0.9614 ppb	17:16:38
2	B 249.677†	342.6	943.7	21.185	ug/L	21.185 ppb	17:16:38
2	Ba 233.527†	-9.7	-0.7	-0.0042	ug/L	-0.0042 ppb	17:16:38
2	Be 313.107†	-4545.2	114.7	0.0443	ug/L	0.0443 ppb	17:16:18
2	Cd 226.502†	-200.7	9.1	0.1024	ug/L	0.1024 ppb	17:16:38
2	Co 228.616†	-83.5	-2.9	-0.0602	ug/L	-0.0602 ppb	17:16:38
2	Cr 267.716†	92.6	9.9	0.1102	ug/L	0.1102 ppb	17:16:38
2	Cu 324.752†	6861.2	179.1	0.5331	ug/L	0.5331 ppb	17:16:18
2	Mn 257.610†	673.2	215.9	0.2405	ug/L	0.2405 ppb	17:16:38
2	Mo 202.031†	16.2	-6.1	-0.4262	ug/L	-0.4262 ppb	17:16:38
2	Ni 231.604†	75.1	5.0	0.1240	ug/L	0.1240 ppb	17:16:38

2	P 214.914†	250.6	20.1	11.962 ug/L	11.962 ppb	17:16:38
2	Pb 220.353†	-59.7	4.9	0.5984 ug/L	0.5984 ppb	17:16:38
2	S 181.975 Axial†	79.7	32.6	45.330 ug/L	45.330 ppb	17:16:38
2	Sb 206.836†	47.9	12.5	4.2259 ug/L	4.2259 ppb	17:16:38
2	Se 196.026†	-25.6	7.5	4.6396 ug/L	4.6396 ppb	17:16:38
2	Si 251.611†	45465.4	43151.0	1366.0 ug/L	1366.0 ppb	17:16:18
2	Sn 189.927†	2.0	0.3	0.0511 ug/L	0.0511 ppb	17:16:38
2	Ti 334.940†	-1109.2	270.2	0.4480 ug/L	0.4480 ppb	17:16:18
2	Tl 190.801†	-30.6	4.8	1.4393 ug/L	1.4393 ppb	17:16:38
2	U 409.014†	-1935.5	7.3	0.2157 ug/L	0.2157 ppb	17:16:13
2	V 292.402†	-1273.3	138.4	0.9319 ug/L	0.9319 ppb	17:16:18
2	Zn 213.857†	788.8	131.9	1.2388 ug/L	1.2388 ppb	17:16:38
2	SiO2†	45654.9	43334.5	2922.9 ug/L	2922.9 ppb	17:17:19
3	Sc Radial	5607.2	5607.2	109 %		17:15:16
3	Y RADIAL	5968.1	5968.1	108.4 %		17:15:16
3	Al 396.153Radial†	18.8	23.3	18.638 ug/L	18.638 ppb	17:15:16
3	Ca 317.933Radial†	37.1	14.7	23.739 ug/L	23.739 ppb	17:15:36
3	Fe 238.204 Radial†	10.6	-1.9	-15.738 ug/L	-15.738 ppb	17:15:36
3	K 766.490 Radial†	3241.1	448.5	81.601 ug/L	81.601 ppb	17:15:16
3	Mg 279.077 IEC†	-1.5	-4.4	-146.02 ug/L	-146.02 ppb	17:15:36
3	Na 589.592 Radial†	-844.9	537.2	154.00 ug/L	154.00 ppb	17:15:16
3	Sr 421.552†	8.1	-2.4	-0.0153 ug/L	-0.0153 ppb	17:15:16
3	Sc 361.383	907104.0	907104.0	105.71 %		17:16:43
3	Y 371.029	763447.1	763447.1	104.92 %		17:16:43
3	Ag 328.068†	302.9	-70.6	-0.3336 ug/L	-0.3336 ppb	17:16:48
3	As 188.979†	-16.5	8.4	3.5706 ug/L	3.5706 ppb	17:17:08
3	B 249.677†	337.1	934.0	20.966 ug/L	20.966 ppb	17:17:08
3	Ba 233.527†	-4.3	4.5	0.0355 ug/L	0.0355 ppb	17:17:08
3	Be 313.107†	-4559.2	161.9	0.0623 ug/L	0.0623 ppb	17:16:48
3	Cd 226.502†	-195.3	16.9	0.1896 ug/L	0.1896 ppb	17:17:08
3	Co 228.616†	-82.1	-0.4	-0.0090 ug/L	-0.0090 ppb	17:17:08
3	Cr 267.716†	99.3	15.0	0.1632 ug/L	0.1632 ppb	17:17:08
3	Cu 324.752†	6735.1	-31.4	-0.0987 ug/L	-0.0987 ppb	17:16:48
3	Mn 257.610†	666.6	200.8	0.2246 ug/L	0.2246 ppb	17:17:08
3	Mo 202.031†	22.8	-0.0	-0.0024 ug/L	-0.0024 ppb	17:17:08
3	Ni 231.604†	78.9	7.6	0.1884 ug/L	0.1884 ppb	17:17:08
3	P 214.914†	238.2	5.0	3.0582 ug/L	3.0582 ppb	17:17:08
3	Pb 220.353†	-70.2	-4.2	-0.4990 ug/L	-0.4990 ppb	17:17:08
3	S 181.975 Axial†	78.1	30.0	41.747 ug/L	41.747 ppb	17:17:08
3	Sb 206.836†	41.2	5.5	1.8999 ug/L	1.8999 ppb	17:17:08
3	Se 196.026†	-34.1	-0.2	-0.1867 ug/L	-0.1867 ppb	17:17:08
3	Si 251.611†	45351.5	42439.4	1343.5 ug/L	1343.5 ppb	17:16:48
3	Sn 189.927†	8.9	6.8	1.1830 ug/L	1.1830 ppb	17:17:08
3	Ti 334.940†	-1085.8	307.1	0.5035 ug/L	0.5035 ppb	17:16:48
3	Tl 190.801†	-40.8	-4.6	-1.3704 ug/L	-1.3704 ppb	17:17:08
3	U 409.014†	-1697.1	258.5	7.6107 ug/L	7.6107 ppb	17:16:43
3	V 292.402†	-1378.9	55.3	0.3887 ug/L	0.3887 ppb	17:16:48
3	Zn 213.857†	761.4	95.6	0.8981 ug/L	0.8981 ppb	17:17:08
3	SiO2†	45563.0	42641.1	2876.1 ug/L	2876.1 ppb	17:17:24

Mean Data: 1202006004|937469|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	901796.7	105.10 %	0.758			0.72%
Sc Radial	5546.0	108 %	1.1			1.04%
Y 371.029	758081.2	104.18 %	0.779			0.75%
Y RADIAL	5911.2	107.4 %	0.96			0.89%
Ag 328.068†	-42.5	-0.2013 ug/L	0.17299	-0.2013 ppb	0.17299	85.95%
Al 396.153Radial†	5.7	4.5780 ug/L	12.18297	4.5780 ppb	12.18297	266.12%
As 188.979†	3.8	1.6051 ug/L	1.73566	1.6051 ppb	1.73566	108.14%
B 249.677†	945.0	21.214 ug/L	0.2644	21.214 ppb	0.2644	1.25%
Ba 233.527†	6.4	0.0508 ug/L	0.06394	0.0508 ppb	0.06394	125.94%
Be 313.107†	111.4	0.0432 ug/L	0.01972	0.0432 ppb	0.01972	45.70%
Ca 317.933Radial†	18.0	29.095 ug/L	4.8424	29.095 ppb	4.8424	16.64%
Cd 226.502†	13.1	0.1465 ug/L	0.04362	0.1465 ppb	0.04362	29.78%
Co 228.616†	-0.4	-0.0102 ug/L	0.04946	-0.0102 ppb	0.04946	485.59%
Cr 267.716†	14.7	0.1622 ug/L	0.05146	0.1622 ppb	0.05146	31.73%
Cu 324.752†	87.1	0.2564 ug/L	0.32310	0.2564 ppb	0.32310	126.00%
Fe 238.204 Radial†	-2.1	-18.141 ug/L	2.6501	-18.141 ppb	2.6501	14.61%
K 766.490 Radial†	548.5	99.810 ug/L	16.6714	99.810 ppb	16.6714	16.70%

Mg 279.077 IEC†	-2.5	-82.390 ug/L	99.8107	-82.390 ppb	99.8107	121.14%
Mn 257.610†	209.4	0.2312 ug/L	0.00829	0.2312 ppb	0.00829	3.58%
Mo 202.031†	-3.8	-0.2633 ug/L	0.22832	-0.2633 ppb	0.22832	86.70%
Na 589.592 Radial†	510.1	146.22 ug/L	7.211	146.22 ppb	7.211	4.93%
Ni 231.604†	3.6	0.0901 ug/L	0.11899	0.0901 ppb	0.11899	132.07%
P 214.914†	11.5	6.8509 ug/L	4.59571	6.8509 ppb	4.59571	67.08%
Pb 220.353†	2.8	0.3380 ug/L	0.74194	0.3380 ppb	0.74194	219.51%
S 181.975 Axial†	28.3	39.418 ug/L	7.3581	39.418 ppb	7.3581	18.67%
Sb 206.836†	7.1	2.3944 ug/L	1.64113	2.3944 ppb	1.64113	68.54%
Se 196.026†	5.6	3.4789 ug/L	3.24488	3.4789 ppb	3.24488	93.27%
Si 251.611†	42840.1	1356.2 ug/L	11.53	1356.2 ppb	11.53	0.85%
Sn 189.927†	0.0	0.0120 ug/L	1.19100	0.0120 ppb	1.19100	>999.9%
Sr 421.552†	1.1	0.0066 ug/L	0.03192	0.0066 ppb	0.03192	486.77%
Ti 334.940†	297.1	0.4845 ug/L	0.03163	0.4845 ppb	0.03163	6.53%
Tl 190.801†	-1.4	-0.4183 ug/L	1.60887	-0.4183 ppb	1.60887	384.60%
U 409.014†	143.6	4.2284 ug/L	3.73758	4.2284 ppb	3.73758	88.39%
V 292.402†	107.7	0.7349 ug/L	0.30079	0.7349 ppb	0.30079	40.93%
Zn 213.857†	113.3	1.0647 ug/L	0.17050	1.0647 ppb	0.17050	16.01%
SiO2†	42949.8	2896.9 ug/L	23.81	2896.9 ppb	23.81	0.82%

Sequence No.: 16

Sample ID: 1202006005|937469|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 1/12/2010 17:19:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006005|937469|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5327.7	5327.7	104 %		17:21:28
1	Y RADIAL	5627.2	5627.2	102.2 %		17:21:28
1	Al 396.153Radial†	6768.4	6511.8	5183.6 ug/L	5183.6 ppb	17:21:28
1	Ca 317.933Radial†	3354.3	3204.8	5173.4 ug/L	5173.4 ppb	17:21:48
1	Fe 238.204 Radial†	634.9	598.7	5105.4 ug/L	5105.4 ppb	17:21:48
1	K 766.490 Radial†	31632.0	27892.5	5075.0 ug/L	5075.0 ppb	17:21:28
1	Mg 279.077 IEC†	166.7	157.2	5218.9 ug/L	5218.9 ppb	17:21:48
1	Na 589.592 Radial†	16491.4	17160.1	4918.9 ug/L	4918.9 ppb	17:21:28
1	Sr 421.552†	80918.5	77767.5	496.47 ug/L	496.47 ppb	17:21:28
1	Sc 361.383	885192.1	885192.1	103.16 %		17:22:47
1	Y 371.029	734354.9	734354.9	100.92 %		17:22:47
1	Ag 328.068†	113230.8	109404.5	505.19 ug/L	505.19 ppb	17:22:47
1	As 188.979†	1187.2	1174.7	506.65 ug/L	506.65 ppb	17:23:07
1	B 249.677†	23270.9	23173.1	517.88 ug/L	517.88 ppb	17:22:47
1	Ba 233.527†	68598.8	66505.6	516.57 ug/L	516.57 ppb	17:22:47
1	Be 313.107†	1392813.1	1354614.6	512.98 ug/L	512.98 ppb	17:22:47
1	Cd 226.502†	46796.4	45564.3	501.13 ug/L	501.13 ppb	17:22:47
1	Co 228.616†	25222.4	24526.9	497.72 ug/L	497.72 ppb	17:23:07
1	Cr 267.716†	47009.8	45490.6	505.32 ug/L	505.32 ppb	17:22:47
1	Cu 324.752†	184388.9	172337.1	514.09 ug/L	514.09 ppb	17:22:47
1	Mn 257.610†	482783.2	467561.8	513.05 ug/L	513.05 ppb	17:22:47
1	Mo 202.031†	7453.0	7203.0	503.05 ug/L	503.05 ppb	17:23:07
1	Ni 231.604†	21109.1	20395.3	504.42 ug/L	504.42 ppb	17:23:07
1	P 214.914†	1256.5	997.7	478.61 ug/L	478.61 ppb	17:23:07
1	Pb 220.353†	4249.0	4181.0	507.71 ug/L	507.71 ppb	17:23:07
1	S 181.975 Axial†	3852.5	3690.6	5135.0 ug/L	5135.0 ppb	17:23:07
1	Sb 206.836†	1589.3	1507.1	529.24 ug/L	529.24 ppb	17:23:07
1	Se 196.026†	769.6	778.0	506.90 ug/L	506.90 ppb	17:23:07
1	Si 251.611†	210254.3	203351.8	6431.2 ug/L	6431.2 ppb	17:22:47
1	Sn 189.927†	3088.5	2992.3	522.20 ug/L	522.20 ppb	17:23:07
1	Ti 334.940†	330662.7	321865.9	515.26 ug/L	515.26 ppb	17:22:47
1	Tl 190.801†	1578.6	1564.3	475.86 ug/L	475.86 ppb	17:23:07
1	U 409.014†	16304.3	17668.7	518.43 ug/L	518.43 ppb	17:22:47
1	V 292.402†	75921.0	74954.7	515.11 ug/L	515.11 ppb	17:22:47
1	Zn 213.857†	55130.4	52816.6	491.40 ug/L	491.40 ppb	17:22:47
1	SiO2†	211257.4	204325.8	13768 ug/L	13768 ppb	17:24:07
2	Sc Radial	5318.2	5318.2	104 %		17:21:53
2	Y RADIAL	5644.4	5644.4	102.5 %		17:21:53
2	Al 396.153Radial†	6803.4	6557.2	5219.9 ug/L	5219.9 ppb	17:21:53
2	Ca 317.933Radial†	3370.6	3226.3	5208.1 ug/L	5208.1 ppb	17:22:13
2	Fe 238.204 Radial†	643.4	608.0	5184.4 ug/L	5184.4 ppb	17:22:13
2	K 766.490 Radial†	31640.7	27955.6	5086.4 ug/L	5086.4 ppb	17:21:53
2	Mg 279.077 IEC†	168.2	158.9	5275.9 ug/L	5275.9 ppb	17:22:13
2	Na 589.592 Radial†	16490.5	17187.8	4926.9 ug/L	4926.9 ppb	17:21:53
2	Sr 421.552†	81093.4	78075.9	498.44 ug/L	498.44 ppb	17:21:53
2	Sc 361.383	889850.7	889850.7	103.70 %		17:23:14
2	Y 371.029	740065.0	740065.0	101.70 %		17:23:14
2	Ag 328.068†	113871.2	109447.5	505.41 ug/L	505.41 ppb	17:23:14
2	As 188.979†	1186.6	1168.2	503.87 ug/L	503.87 ppb	17:23:34
2	B 249.677†	23366.7	23147.3	517.29 ug/L	517.29 ppb	17:23:14
2	Ba 233.527†	68882.7	66431.2	516.00 ug/L	516.00 ppb	17:23:14
2	Be 313.107†	1398898.6	1353414.6	512.52 ug/L	512.52 ppb	17:23:14
2	Cd 226.502†	46829.5	45358.7	498.86 ug/L	498.86 ppb	17:23:14
2	Co 228.616†	25295.2	24469.1	496.55 ug/L	496.55 ppb	17:23:34
2	Cr 267.716†	47000.5	45243.0	502.58 ug/L	502.58 ppb	17:23:14
2	Cu 324.752†	185654.6	172621.9	514.94 ug/L	514.94 ppb	17:23:14
2	Mn 257.610†	483663.8	465961.0	511.30 ug/L	511.30 ppb	17:23:14
2	Mo 202.031†	7474.7	7186.2	501.89 ug/L	501.89 ppb	17:23:34
2	Ni 231.604†	21172.5	20349.3	503.28 ug/L	503.28 ppb	17:23:34

2	P 214.914†	1258.5	993.3	475.65 ug/L	475.65 ppb	17:23:34
2	Pb 220.353†	4273.5	4183.1	507.96 ug/L	507.96 ppb	17:23:34
2	S 181.975 Axial†	3867.6	3685.6	5128.2 ug/L	5128.2 ppb	17:23:34
2	Sb 206.836†	1601.0	1510.4	530.27 ug/L	530.27 ppb	17:23:34
2	Se 196.026†	778.7	782.9	510.22 ug/L	510.22 ppb	17:23:34
2	Si 251.611†	211015.7	203019.1	6420.7 ug/L	6420.7 ppb	17:23:14
2	Sn 189.927†	3080.2	2968.6	518.09 ug/L	518.09 ppb	17:23:34
2	Ti 334.940†	332331.0	321796.7	515.15 ug/L	515.15 ppb	17:23:14
2	Tl 190.801†	1579.6	1557.2	473.71 ug/L	473.71 ppb	17:23:34
2	U 409.014†	16455.8	17732.0	520.30 ug/L	520.30 ppb	17:23:14
2	V 292.402†	76316.3	74950.6	515.06 ug/L	515.06 ppb	17:23:14
2	Zn 213.857†	55306.6	52706.7	490.37 ug/L	490.37 ppb	17:23:14
2	SiO2†	209878.2	201923.9	13606 ug/L	13606 ppb	17:24:13
3	Sc Radial	5321.5	5321.5	104 %		17:22:18
3	Y RADIAL	5631.3	5631.3	102.3 %		17:22:18
3	Al 396.153Radial†	6778.1	6528.8	5197.1 ug/L	5197.1 ppb	17:22:18
3	Ca 317.933Radial†	3348.7	3203.3	5170.9 ug/L	5170.9 ppb	17:22:38
3	Fe 238.204 Radial†	638.9	603.3	5144.3 ug/L	5144.3 ppb	17:22:38
3	K 766.490 Radial†	31775.7	28066.4	5106.6 ug/L	5106.6 ppb	17:22:18
3	Mg 279.077 IEC†	169.2	159.7	5304.3 ug/L	5304.3 ppb	17:22:38
3	Na 589.592 Radial†	16514.1	17200.5	4930.5 ug/L	4930.5 ppb	17:22:18
3	Sr 421.552†	80818.6	77762.3	496.44 ug/L	496.44 ppb	17:22:18
3	Sc 361.383	883336.1	883336.1	102.94 %		17:23:42
3	Y 371.029	733645.6	733645.6	100.82 %		17:23:42
3	Ag 328.068†	113307.5	109709.7	506.60 ug/L	506.60 ppb	17:23:42
3	As 188.979†	1186.9	1176.9	507.59 ug/L	507.59 ppb	17:24:02
3	B 249.677†	23194.5	23146.2	517.26 ug/L	517.26 ppb	17:23:42
3	Ba 233.527†	68489.1	66538.8	516.83 ug/L	516.83 ppb	17:23:42
3	Be 313.107†	1390719.4	1355417.6	513.28 ug/L	513.28 ppb	17:23:42
3	Cd 226.502†	46589.7	45458.8	499.96 ug/L	499.96 ppb	17:23:42
3	Co 228.616†	25235.3	24590.8	499.02 ug/L	499.02 ppb	17:24:02
3	Cr 267.716†	46846.5	45427.7	504.63 ug/L	504.63 ppb	17:23:42
3	Cu 324.752†	184650.4	172966.7	515.97 ug/L	515.97 ppb	17:23:42
3	Mn 257.610†	481662.0	467456.0	512.93 ug/L	512.93 ppb	17:23:42
3	Mo 202.031†	7477.5	7242.0	505.78 ug/L	505.78 ppb	17:24:02
3	Ni 231.604†	21139.1	20467.5	506.20 ug/L	506.20 ppb	17:24:02
3	P 214.914†	1262.2	1005.7	483.01 ug/L	483.01 ppb	17:24:02
3	Pb 220.353†	4267.7	4207.8	510.96 ug/L	510.96 ppb	17:24:02
3	S 181.975 Axial†	3871.9	3717.3	5172.2 ug/L	5172.2 ppb	17:24:02
3	Sb 206.836†	1593.3	1514.3	531.76 ug/L	531.76 ppb	17:24:02
3	Se 196.026†	762.4	772.6	503.61 ug/L	503.61 ppb	17:24:02
3	Si 251.611†	210269.2	203794.5	6445.2 ug/L	6445.2 ppb	17:23:42
3	Sn 189.927†	3104.9	3014.4	526.06 ug/L	526.06 ppb	17:24:02
3	Ti 334.940†	330714.9	322590.2	516.41 ug/L	516.41 ppb	17:23:42
3	Tl 190.801†	1594.5	1582.9	481.48 ug/L	481.48 ppb	17:24:02
3	U 409.014†	16284.0	17682.1	518.83 ug/L	518.83 ppb	17:23:42
3	V 292.402†	75758.6	74951.5	515.12 ug/L	515.12 ppb	17:23:42
3	Zn 213.857†	55036.7	52838.0	491.58 ug/L	491.58 ppb	17:23:42
3	SiO2†	208508.1	202085.4	13617 ug/L	13617 ppb	17:24:18

Mean Data: 1202006005|937469|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	886126.3	103.27 %	0.391			0.38%
Sc Radial	5322.5	104 %	0.1			0.09%
Y 371.029	736021.8	101.15 %	0.484			0.48%
Y RADIAL	5634.3	102.3 %	0.16			0.16%
Ag 328.068†	109520.6	505.73 ug/L	0.759	505.73 ppb	0.759	0.15%
Al 396.153Radial†	6532.6	5200.2 ug/L	18.37	5200.2 ppb	18.37	0.35%
As 188.979†	1173.3	506.04 ug/L	1.932	506.04 ppb	1.932	0.38%
B 249.677†	23155.5	517.48 ug/L	0.347	517.48 ppb	0.347	0.07%
Ba 233.527†	66491.9	516.47 ug/L	0.426	516.47 ppb	0.426	0.08%
Be 313.107†	1354482.3	512.93 ug/L	0.382	512.93 ppb	0.382	0.07%
Ca 317.933Radial†	3211.5	5184.2 ug/L	20.80	5184.2 ppb	20.80	0.40%
Cd 226.502†	45460.6	499.98 ug/L	1.135	499.98 ppb	1.135	0.23%
Co 228.616†	24528.9	497.76 ug/L	1.239	497.76 ppb	1.239	0.25%
Cr 267.716†	45387.1	504.18 ug/L	1.427	504.18 ppb	1.427	0.28%
Cu 324.752†	172641.9	515.00 ug/L	0.941	515.00 ppb	0.941	0.18%
Fe 238.204 Radial†	603.3	5144.7 ug/L	39.49	5144.7 ppb	39.49	0.77%
K 766.490 Radial†	27971.5	5089.3 ug/L	16.02	5089.3 ppb	16.02	0.31%

Mg 279.077 IEC†	158.6	5266.4 ug/L	43.52	5266.4 ppb	43.52	0.83%
Mn 257.610†	466993.0	512.43 ug/L	0.979	512.43 ppb	0.979	0.19%
Mo 202.031†	7210.4	503.57 ug/L	1.997	503.57 ppb	1.997	0.40%
Na 589.592 Radial†	17182.8	4925.5 ug/L	5.92	4925.5 ppb	5.92	0.12%
Ni 231.604†	20404.1	504.64 ug/L	1.473	504.64 ppb	1.473	0.29%
P 214.914†	998.9	479.09 ug/L	3.702	479.09 ppb	3.702	0.77%
Pb 220.353†	4190.6	508.88 ug/L	1.810	508.88 ppb	1.810	0.36%
S 181.975 Axial†	3697.8	5145.1 ug/L	23.72	5145.1 ppb	23.72	0.46%
Sb 206.836†	1510.6	530.42 ug/L	1.268	530.42 ppb	1.268	0.24%
Se 196.026†	777.9	506.91 ug/L	3.303	506.91 ppb	3.303	0.65%
Si 251.611†	203388.5	6432.3 ug/L	12.29	6432.3 ppb	12.29	0.19%
Sn 189.927†	2991.7	522.12 ug/L	3.987	522.12 ppb	3.987	0.76%
Sr 421.552†	77868.6	497.12 ug/L	1.146	497.12 ppb	1.146	0.23%
Ti 334.940†	322084.3	515.60 ug/L	0.699	515.60 ppb	0.699	0.14%
Tl 190.801†	1568.2	477.02 ug/L	4.013	477.02 ppb	4.013	0.84%
U 409.014†	17694.3	519.19 ug/L	0.981	519.19 ppb	0.981	0.19%
V 292.402†	74952.3	515.10 ug/L	0.035	515.10 ppb	0.035	0.01%
Zn 213.857†	52787.1	491.12 ug/L	0.656	491.12 ppb	0.656	0.13%
SiO2†	202778.4	13663 ug/L	90.6	13663 ppb	90.6	0.66%

Sequence No.: 17

Sample ID: 1202006006|937469|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 1/12/2010 17:26:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202006006|937469|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5458.6	5458.6	107 %		17:28:22
1	Y RADIAL	5824.0	5824.0	105.8 %		17:28:22
1	Al 396.153Radial†	-2.7	3.6	2.9112 ug/L	2.9112 ppb	17:28:22
1	Ca 317.933Radial†	24.0	3.3	5.3856 ug/L	5.3856 ppb	17:28:42
1	Fe 238.204 Radial†	7.7	-4.3	-36.511 ug/L	-36.511 ppb	17:28:42
1	K 766.490 Radial†	2590.2	-81.6	-14.892 ug/L	-14.892 ppb	17:28:22
1	Mg 279.077 IEC†	1.0	-2.1	-71.013 ug/L	-71.013 ppb	17:28:42
1	Na 589.592 Radial†	-1135.3	243.9	69.903 ug/L	69.903 ppb	17:28:22
1	Sr 421.552†	33.3	21.5	0.1374 ug/L	0.1374 ppb	17:28:22
1	Sc 361.383	896342.7	896342.7	104.46 %		17:29:39
1	Y 371.029	754265.2	754265.2	103.66 %		17:29:39
1	Ag 328.068†	318.7	-52.0	-0.2476 ug/L	-0.2476 ppb	17:29:44
1	As 188.979†	-12.9	11.5	4.9320 ug/L	4.9320 ppb	17:30:04
1	B 249.677†	-288.0	339.4	7.6246 ug/L	7.6246 ppb	17:30:04
1	Ba 233.527†	7.7	16.0	0.1240 ug/L	0.1240 ppb	17:30:04
1	Be 313.107†	-4493.9	172.6	0.0659 ug/L	0.0659 ppb	17:29:44
1	Cd 226.502†	-197.7	12.4	0.1401 ug/L	0.1401 ppb	17:30:04
1	Co 228.616†	-82.2	-1.5	-0.0312 ug/L	-0.0312 ppb	17:30:04
1	Cr 267.716†	67.7	-14.2	-0.1572 ug/L	-0.1572 ppb	17:30:04
1	Cu 324.752†	6554.9	-127.4	-0.3821 ug/L	-0.3821 ppb	17:29:44
1	Mn 257.610†	517.9	66.0	0.0716 ug/L	0.0716 ppb	17:30:04
1	Mo 202.031†	13.9	-8.3	-0.5821 ug/L	-0.5821 ppb	17:30:04
1	Ni 231.604†	78.9	8.5	0.2098 ug/L	0.2098 ppb	17:30:04
1	P 214.914†	230.7	0.5	0.4408 ug/L	0.4408 ppb	17:30:04
1	Pb 220.353†	-55.1	9.4	1.1433 ug/L	1.1433 ppb	17:30:04
1	S 181.975 Axial†	53.0	6.9	9.6166 ug/L	9.6166 ppb	17:30:04
1	Sb 206.836†	23.1	-11.3	-3.8231 ug/L	-3.8231 ppb	17:30:04
1	Se 196.026†	-28.8	4.5	2.7191 ug/L	2.7191 ppb	17:30:04
1	Si 251.611†	9352.4	8492.4	268.85 ug/L	268.85 ppb	17:29:44
1	Sn 189.927†	8.9	6.9	1.2021 ug/L	1.2021 ppb	17:30:04
1	Ti 334.940†	-1185.0	199.8	0.3263 ug/L	0.3263 ppb	17:29:44
1	Tl 190.801†	-22.3	12.7	3.8377 ug/L	3.8377 ppb	17:30:04
1	U 409.014†	-1937.4	9.2	0.2757 ug/L	0.2757 ppb	17:29:39
1	V 292.402†	-1319.3	96.7	0.6519 ug/L	0.6519 ppb	17:29:44
1	Zn 213.857†	712.5	57.4	0.5416 ug/L	0.5416 ppb	17:30:04
1	SiO2†	9445.7	8583.3	578.95 ug/L	578.95 ppb	17:31:10
2	Sc Radial	5400.7	5400.7	105 %		17:28:47
2	Y RADIAL	5738.8	5738.8	104.2 %		17:28:47
2	Al 396.153Radial†	6.4	12.2	9.7997 ug/L	9.7997 ppb	17:28:47
2	Ca 317.933Radial†	23.8	3.3	5.3434 ug/L	5.3434 ppb	17:29:07
2	Fe 238.204 Radial†	11.9	-0.3	-2.2495 ug/L	-2.2495 ppb	17:29:07
2	K 766.490 Radial†	2812.4	155.1	28.223 ug/L	28.223 ppb	17:28:47
2	Mg 279.077 IEC†	1.7	-1.4	-46.877 ug/L	-46.877 ppb	17:29:07
2	Na 589.592 Radial†	-1120.2	246.7	70.728 ug/L	70.728 ppb	17:28:47
2	Sr 421.552†	29.7	18.4	0.1177 ug/L	0.1177 ppb	17:28:47
2	Sc 361.383	885203.2	885203.2	103.16 %		17:30:09
2	Y 371.029	746099.2	746099.2	102.53 %		17:30:09
2	Ag 328.068†	282.0	-83.7	-0.3813 ug/L	-0.3813 ppb	17:30:14
2	As 188.979†	-17.3	7.2	3.0642 ug/L	3.0642 ppb	17:30:35
2	B 249.677†	-268.9	354.4	7.9559 ug/L	7.9559 ppb	17:30:35
2	Ba 233.527†	-6.0	2.7	0.0224 ug/L	0.0224 ppb	17:30:35
2	Be 313.107†	-4610.7	5.3	0.0028 ug/L	0.0028 ppb	17:30:14
2	Cd 226.502†	-194.1	13.5	0.1483 ug/L	0.1483 ppb	17:30:35
2	Co 228.616†	-78.3	1.4	0.0262 ug/L	0.0262 ppb	17:30:35
2	Cr 267.716†	70.9	-10.3	-0.1128 ug/L	-0.1128 ppb	17:30:35
2	Cu 324.752†	6654.0	47.6	0.1424 ug/L	0.1424 ppb	17:30:14
2	Mn 257.610†	524.1	78.3	0.0875 ug/L	0.0875 ppb	17:30:35
2	Mo 202.031†	17.1	-5.1	-0.3543 ug/L	-0.3543 ppb	17:30:35
2	Ni 231.604†	84.0	14.4	0.3555 ug/L	0.3555 ppb	17:30:35

2	P 214.914†	234.2	6.7	3.9921 ug/L	3.9921 ppb	17:30:35
2	Pb 220.353†	-62.0	2.1	0.2545 ug/L	0.2545 ppb	17:30:35
2	S 181.975 Axial†	59.7	14.0	19.462 ug/L	19.462 ppb	17:30:35
2	Sb 206.836†	26.2	-8.1	-2.7498 ug/L	-2.7498 ppb	17:30:35
2	Se 196.026†	-32.8	0.2	0.1207 ug/L	0.1207 ppb	17:30:35
2	Si 251.611†	9396.7	8648.0	273.77 ug/L	273.77 ppb	17:30:14
2	Sn 189.927†	2.1	0.4	0.0714 ug/L	0.0714 ppb	17:30:35
2	Ti 334.940†	-1143.8	225.5	0.3659 ug/L	0.3659 ppb	17:30:14
2	Tl 190.801†	-25.7	9.2	2.7754 ug/L	2.7754 ppb	17:30:35
2	U 409.014†	-1950.2	-26.5	-0.7807 ug/L	-0.7807 ppb	17:30:09
2	V 292.402†	-1309.8	90.1	0.6032 ug/L	0.6032 ppb	17:30:14
2	Zn 213.857†	709.0	62.6	0.5854 ug/L	0.5854 ppb	17:30:35
2	SiO2†	9302.0	8557.9	577.23 ug/L	577.23 ppb	17:31:15
3	Sc Radial	5414.7	5414.7	106 %		17:29:13
3	Y RADIAL	5761.7	5761.7	104.7 %		17:29:13
3	Al 396.153Radial†	16.0	21.3	17.053 ug/L	17.053 ppb	17:29:13
3	Ca 317.933Radial†	29.9	9.1	14.620 ug/L	14.620 ppb	17:29:33
3	Fe 238.204 Radial†	11.5	-0.7	-6.1281 ug/L	-6.1281 ppb	17:29:33
3	K 766.490 Radial†	2822.9	158.2	28.782 ug/L	28.782 ppb	17:29:13
3	Mg 279.077 IEC†	1.2	-1.9	-63.217 ug/L	-63.217 ppb	17:29:33
3	Na 589.592 Radial†	-1149.9	221.4	63.464 ug/L	63.464 ppb	17:29:13
3	Sr 421.552†	36.2	24.5	0.1560 ug/L	0.1560 ppb	17:29:13
3	Sc 361.383	896480.2	896480.2	104.48 %		17:30:40
3	Y 371.029	754992.4	754992.4	103.76 %		17:30:40
3	Ag 328.068†	219.2	-147.2	-0.6783 ug/L	-0.6783 ppb	17:30:45
3	As 188.979†	-19.2	5.6	2.3756 ug/L	2.3756 ppb	17:31:05
3	B 249.677†	-283.1	344.1	7.7247 ug/L	7.7247 ppb	17:31:05
3	Ba 233.527†	-32.2	-22.2	-0.1725 ug/L	-0.1725 ppb	17:31:05
3	Be 313.107†	-4538.2	130.9	0.0499 ug/L	0.0499 ppb	17:30:45
3	Cd 226.502†	-189.3	20.4	0.2256 ug/L	0.2256 ppb	17:31:05
3	Co 228.616†	-66.8	13.3	0.2675 ug/L	0.2675 ppb	17:31:05
3	Cr 267.716†	84.7	2.1	0.0224 ug/L	0.0224 ppb	17:31:05
3	Cu 324.752†	6526.9	-155.1	-0.4636 ug/L	-0.4636 ppb	17:30:45
3	Mn 257.610†	502.3	51.0	0.0579 ug/L	0.0579 ppb	17:31:05
3	Mo 202.031†	11.9	-10.3	-0.7177 ug/L	-0.7177 ppb	17:31:05
3	Ni 231.604†	68.3	-1.6	-0.0403 ug/L	-0.0403 ppb	17:31:05
3	P 214.914†	233.2	2.9	1.8726 ug/L	1.8726 ppb	17:31:05
3	Pb 220.353†	-70.0	-4.8	-0.5756 ug/L	-0.5756 ppb	17:31:05
3	S 181.975 Axial†	58.6	12.3	17.064 ug/L	17.064 ppb	17:31:05
3	Sb 206.836†	28.3	-6.4	-2.1726 ug/L	-2.1726 ppb	17:31:05
3	Se 196.026†	-27.8	5.4	3.3821 ug/L	3.3821 ppb	17:31:05
3	Si 251.611†	9301.0	8441.9	267.25 ug/L	267.25 ppb	17:30:45
3	Sn 189.927†	1.7	-0.0	-0.0063 ug/L	-0.0063 ppb	17:31:05
3	Ti 334.940†	-1267.0	121.5	0.2012 ug/L	0.2012 ppb	17:30:45
3	Tl 190.801†	-22.6	12.4	3.7481 ug/L	3.7481 ppb	17:31:05
3	U 409.014†	-1910.8	34.9	1.0291 ug/L	1.0291 ppb	17:30:40
3	V 292.402†	-1422.7	-2.1	-0.0231 ug/L	-0.0231 ppb	17:30:45
3	Zn 213.857†	715.3	60.0	0.5643 ug/L	0.5643 ppb	17:31:05
3	SiO2†	9411.1	8548.8	576.63 ug/L	576.63 ppb	17:31:20

Mean Data: 1202006006|937469|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	892675.4	104.03 %	0.754			0.72%
Sc Radial	5424.7	106 %	0.6			0.56%
Y 371.029	751785.6	103.31 %	0.679			0.66%
Y RADIAL	5774.8	104.9 %	0.80			0.76%
Ag 328.068†	-94.3	-0.4357 ug/L	0.22047	-0.4357 ppb	0.22047	50.60%
Al 396.153Radial†	12.4	9.9212 ug/L	7.07146	9.9212 ppb	7.07146	71.28%
As 188.979†	8.1	3.4573 ug/L	1.32274	3.4573 ppb	1.32274	38.26%
B 249.677†	346.0	7.7684 ug/L	0.16993	7.7684 ppb	0.16993	2.19%
Ba 233.527†	-1.2	-0.0087 ug/L	0.15068	-0.0087 ppb	0.15068	>999.9%
Be 313.107†	102.9	0.0396 ug/L	0.03281	0.0396 ppb	0.03281	82.96%
Ca 317.933Radial†	5.2	8.4496 ug/L	5.34362	8.4496 ppb	5.34362	63.24%
Cd 226.502†	15.4	0.1713 ug/L	0.04715	0.1713 ppb	0.04715	27.52%
Co 228.616†	4.4	0.0875 ug/L	0.15848	0.0875 ppb	0.15848	181.13%
Cr 267.716†	-7.5	-0.0825 ug/L	0.09357	-0.0825 ppb	0.09357	113.39%
Cu 324.752†	-78.3	-0.2344 ug/L	0.32888	-0.2344 ppb	0.32888	140.28%
Fe 238.204 Radial†	-1.8	-14.963 ug/L	18.7616	-14.963 ppb	18.7616	125.39%
K 766.490 Radial†	77.2	14.038 ug/L	25.0551	14.038 ppb	25.0551	178.48%

Mg 279.077 IEC†	-1.8	-60.369 ug/L	12.3176	-60.369 ppb	12.3176	20.40%
Mn 257.610†	65.1	0.0723 ug/L	0.01483	0.0723 ppb	0.01483	20.50%
Mo 202.031†	-7.9	-0.5514 ug/L	0.18363	-0.5514 ppb	0.18363	33.30%
Na 589.592 Radial†	237.3	68.032 ug/L	3.9774	68.032 ppb	3.9774	5.85%
Ni 231.604†	7.1	0.1750 ug/L	0.20018	0.1750 ppb	0.20018	114.37%
P 214.914†	3.4	2.1018 ug/L	1.78671	2.1018 ppb	1.78671	85.01%
Pb 220.353†	2.2	0.2741 ug/L	0.85961	0.2741 ppb	0.85961	313.63%
S 181.975 Axial†	11.1	15.381 ug/L	5.1339	15.381 ppb	5.1339	33.38%
Sb 206.836†	-8.6	-2.9152 ug/L	0.83758	-2.9152 ppb	0.83758	28.73%
Se 196.026†	3.4	2.0739 ug/L	1.72377	2.0739 ppb	1.72377	83.12%
Si 251.611†	8527.4	269.95 ug/L	3.399	269.95 ppb	3.399	1.26%
Sn 189.927†	2.4	0.4224 ug/L	0.67635	0.4224 ppb	0.67635	160.11%
Sr 421.552†	21.5	0.1370 ug/L	0.01915	0.1370 ppb	0.01915	13.98%
Ti 334.940†	182.2	0.2978 ug/L	0.08601	0.2978 ppb	0.08601	28.88%
Tl 190.801†	11.4	3.4538 ug/L	0.58918	3.4538 ppb	0.58918	17.06%
U 409.014†	5.9	0.1747 ug/L	0.90910	0.1747 ppb	0.90910	520.33%
V 292.402†	61.6	0.4107 ug/L	0.37645	0.4107 ppb	0.37645	91.67%
Zn 213.857†	60.0	0.5638 ug/L	0.02188	0.5638 ppb	0.02188	3.88%
SiO2†	8563.3	577.60 ug/L	1.206	577.60 ppb	1.206	0.21%

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/12/2010 17:33:32

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	5136.5	5136.5	100 %		17:35:24
1	Y RADIAL	5441.1	5441.1	98.83 %		17:35:24
1	Al 396.153Radial†	6580.9	6567.2	5227.4 ug/L	5227.4 ppb	17:35:24
1	Ca 317.933Radial†	3252.5	3223.4	5203.4 ug/L	5203.4 ppb	17:35:44
1	Fe 238.204 Radial†	623.0	609.6	5198.6 ug/L	5198.6 ppb	17:35:44
1	K 766.490 Radial†	30109.1	27506.4	5002.7 ug/L	5002.7 ppb	17:35:24
1	Mg 279.077 IEC†	162.9	159.3	5290.9 ug/L	5290.9 ppb	17:35:44
1	Na 589.592 Radial†	32766.4	33976.0	9739.2 ug/L	9739.2 ppb	17:35:24
1	Sr 421.552†	78723.0	78474.9	500.99 ug/L	500.99 ppb	17:35:24
1	Sc 361.383	849021.6	849021.6	98.945 %		17:36:43
1	Y 371.029	704216.6	704216.6	96.778 %		17:36:43
1	Ag 328.068†	110165.7	110983.0	512.46 ug/L	512.46 ppb	17:36:43
1	As 188.979†	1159.7	1196.0	515.71 ug/L	515.71 ppb	17:37:03
1	B 249.677†	21531.6	22376.3	499.95 ug/L	499.95 ppb	17:36:43
1	Ba 233.527†	64856.8	65556.7	509.21 ug/L	509.21 ppb	17:36:43
1	Be 313.107†	1337219.6	1355948.0	513.47 ug/L	513.47 ppb	17:36:43
1	Cd 226.502†	45681.0	46369.5	509.97 ug/L	509.97 ppb	17:36:43
1	Co 228.616†	24685.2	25025.5	507.86 ug/L	507.86 ppb	17:37:03
1	Cr 267.716†	45243.7	45647.0	507.07 ug/L	507.07 ppb	17:36:43
1	Cu 324.752†	174798.3	170259.1	507.91 ug/L	507.91 ppb	17:36:43
1	Mn 257.610†	459753.1	464223.9	509.40 ug/L	509.40 ppb	17:36:43
1	Mo 202.031†	7291.7	7347.8	513.16 ug/L	513.16 ppb	17:37:03
1	Ni 231.604†	20374.0	20524.2	507.60 ug/L	507.60 ppb	17:37:03
1	P 214.914†	4416.5	4243.3	2428.4 ug/L	2428.4 ppb	17:37:03
1	Pb 220.353†	4126.5	4232.7	514.00 ug/L	514.00 ppb	17:37:03
1	S 181.975 Axial†	773.3	737.6	1025.5 ug/L	1025.5 ppb	17:37:03
1	Sb 206.836†	1493.2	1475.7	518.59 ug/L	518.59 ppb	17:37:03
1	Se 196.026†	776.4	816.7	531.54 ug/L	531.54 ppb	17:37:03
1	Si 251.611†	80363.4	80759.4	2550.2 ug/L	2550.2 ppb	17:36:43
1	Sn 189.927†	2895.4	2924.6	510.42 ug/L	510.42 ppb	17:37:03
1	Ti 334.940†	315537.6	320235.1	512.65 ug/L	512.65 ppb	17:36:43
1	Tl 190.801†	1602.7	1653.9	502.83 ug/L	502.83 ppb	17:37:03
1	U 409.014†	14822.3	16844.2	494.15 ug/L	494.15 ppb	17:36:43
1	V 292.402†	72212.9	74342.3	511.05 ug/L	511.05 ppb	17:36:43
1	Zn 213.857†	54595.4	54552.7	507.68 ug/L	507.68 ppb	17:36:43
1	SiO2†	81975.0	82389.8	5543.1 ug/L	5543.1 ppb	17:38:03
2	Sc Radial	5164.2	5164.2	101 %		17:35:49
2	Y RADIAL	5458.1	5458.1	99.14 %		17:35:49
2	Al 396.153Radial†	6512.3	6464.0	5144.9 ug/L	5144.9 ppb	17:35:49
2	Ca 317.933Radial†	3244.8	3198.4	5163.1 ug/L	5163.1 ppb	17:36:09
2	Fe 238.204 Radial†	621.8	605.0	5159.7 ug/L	5159.7 ppb	17:36:09
2	K 766.490 Radial†	29989.7	27227.0	4951.9 ug/L	4951.9 ppb	17:35:49
2	Mg 279.077 IEC†	165.5	161.1	5350.0 ug/L	5350.0 ppb	17:36:09
2	Na 589.592 Radial†	32721.9	33756.8	9676.4 ug/L	9676.4 ppb	17:35:49
2	Sr 421.552†	78306.2	77640.7	495.66 ug/L	495.66 ppb	17:35:49
2	Sc 361.383	855400.2	855400.2	99.689 %		17:37:10
2	Y 371.029	710715.4	710715.4	97.671 %		17:37:10
2	Ag 328.068†	111443.6	111434.6	514.53 ug/L	514.53 ppb	17:37:10
2	As 188.979†	1172.7	1200.3	517.59 ug/L	517.59 ppb	17:37:30
2	B 249.677†	21995.1	22678.9	506.75 ug/L	506.75 ppb	17:37:10
2	Ba 233.527†	65387.7	65600.5	509.56 ug/L	509.56 ppb	17:37:10
2	Be 313.107†	1358094.3	1366810.1	517.58 ug/L	517.58 ppb	17:37:10
2	Cd 226.502†	46136.3	46482.0	511.22 ug/L	511.22 ppb	17:37:10
2	Co 228.616†	24800.2	24954.9	506.43 ug/L	506.43 ppb	17:37:30
2	Cr 267.716†	45754.7	45818.6	508.97 ug/L	508.97 ppb	17:37:10
2	Cu 324.752†	177366.8	171518.3	511.65 ug/L	511.65 ppb	17:37:10
2	Mn 257.610†	464392.0	465412.5	510.69 ug/L	510.69 ppb	17:37:10
2	Mo 202.031†	7341.1	7342.4	512.78 ug/L	512.78 ppb	17:37:30
2	Ni 231.604†	20523.0	20520.0	507.50 ug/L	507.50 ppb	17:37:30

2	P 214.914†	4452.7	4246.3	2429.4 ug/L	2429.4 ppb	17:37:30
2	Pb 220.353†	4166.1	4241.3	515.02 ug/L	515.02 ppb	17:37:30
2	S 181.975 Axial†	774.0	732.6	1018.5 ug/L	1018.5 ppb	17:37:30
2	Sb 206.836†	1518.1	1489.4	523.27 ug/L	523.27 ppb	17:37:30
2	Se 196.026†	780.3	814.8	530.26 ug/L	530.26 ppb	17:37:30
2	Si 251.611†	81273.1	81066.2	2559.9 ug/L	2559.9 ppb	17:37:10
2	Sn 189.927†	2934.7	2942.2	513.48 ug/L	513.48 ppb	17:37:30
2	Ti 334.940†	319169.0	321499.9	514.66 ug/L	514.66 ppb	17:37:10
2	Tl 190.801†	1624.4	1663.6	505.76 ug/L	505.76 ppb	17:37:30
2	U 409.014†	15288.0	17199.6	504.61 ug/L	504.61 ppb	17:37:10
2	V 292.402†	73417.5	75006.5	515.57 ug/L	515.57 ppb	17:37:10
2	Zn 213.857†	55168.9	54716.5	509.21 ug/L	509.21 ppb	17:37:10
2	SiO2†	80928.5	80722.2	5430.6 ug/L	5430.6 ppb	17:38:08
3	Sc Radial	5027.3	5027.3	98.2 %		17:36:14
3	Y RADIAL	5322.0	5322.0	96.67 %		17:36:14
3	Al 396.153Radial†	6385.2	6510.3	5182.0 ug/L	5182.0 ppb	17:36:14
3	Ca 317.933Radial†	3244.1	3285.3	5303.3 ug/L	5303.3 ppb	17:36:34
3	Fe 238.204 Radial†	618.7	618.7	5275.6 ug/L	5275.6 ppb	17:36:34
3	K 766.490 Radial†	29499.0	27536.9	5008.3 ug/L	5008.3 ppb	17:36:14
3	Mg 279.077 IEC†	161.6	161.6	5366.6 ug/L	5366.6 ppb	17:36:34
3	Na 589.592 Radial†	31956.2	33860.2	9706.1 ug/L	9706.1 ppb	17:36:14
3	Sr 421.552†	76563.2	77979.4	497.82 ug/L	497.82 ppb	17:36:14
3	Sc 361.383	857948.8	857948.8	99.986 %		17:37:38
3	Y 371.029	712746.3	712746.3	97.950 %		17:37:38
3	Ag 328.068†	111500.6	111159.5	513.31 ug/L	513.31 ppb	17:37:38
3	As 188.979†	1171.9	1196.0	515.77 ug/L	515.77 ppb	17:37:58
3	B 249.677†	22056.6	22674.8	506.64 ug/L	506.64 ppb	17:37:38
3	Ba 233.527†	65584.7	65602.7	509.58 ug/L	509.58 ppb	17:37:38
3	Be 313.107†	1359041.9	1363711.0	516.41 ug/L	516.41 ppb	17:37:38
3	Cd 226.502†	46368.9	46577.2	512.25 ug/L	512.25 ppb	17:37:38
3	Co 228.616†	24850.7	24931.5	505.95 ug/L	505.95 ppb	17:37:58
3	Cr 267.716†	45890.5	45818.1	508.97 ug/L	508.97 ppb	17:37:38
3	Cu 324.752†	177085.8	170708.8	509.25 ug/L	509.25 ppb	17:37:38
3	Mn 257.610†	465154.5	464791.3	510.02 ug/L	510.02 ppb	17:37:38
3	Mo 202.031†	7323.2	7302.6	510.02 ug/L	510.02 ppb	17:37:58
3	Ni 231.604†	20566.9	20502.8	507.07 ug/L	507.07 ppb	17:37:58
3	P 214.914†	4470.2	4250.5	2432.3 ug/L	2432.3 ppb	17:37:58
3	Pb 220.353†	4163.3	4226.1	513.17 ug/L	513.17 ppb	17:37:58
3	S 181.975 Axial†	785.9	742.1	1031.8 ug/L	1031.8 ppb	17:37:58
3	Sb 206.836†	1520.7	1487.4	522.50 ug/L	522.50 ppb	17:37:58
3	Se 196.026†	787.5	819.7	533.65 ug/L	533.65 ppb	17:37:58
3	Si 251.611†	81250.6	80801.6	2551.6 ug/L	2551.6 ppb	17:37:38
3	Sn 189.927†	2924.5	2923.2	510.20 ug/L	510.20 ppb	17:37:58
3	Ti 334.940†	319649.4	321029.3	513.93 ug/L	513.93 ppb	17:37:38
3	Tl 190.801†	1630.8	1665.1	506.23 ug/L	506.23 ppb	17:37:58
3	U 409.014†	15057.9	16924.0	496.48 ug/L	496.48 ppb	17:37:38
3	V 292.402†	73542.0	74912.2	514.86 ug/L	514.86 ppb	17:37:38
3	Zn 213.857†	55329.5	54712.8	509.17 ug/L	509.17 ppb	17:37:38
3	SiO2†	81001.5	80554.1	5419.4 ug/L	5419.4 ppb	17:38:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854123.5	99.540 %	0.5359			0.54%
Sc Radial	5109.3	99.8 %	1.41			1.42%
Y 371.029	709226.1	97.466 %	0.6123			0.63%
Y RADIAL	5407.1	98.21 %	1.347			1.37%
Ag 328.068†	111192.3	513.43 ug/L	1.041	513.43 ppb	1.041	0.20%
QC value within limits for Ag 328.068 Recovery = 102.69%						
Al 396.153Radial†	6513.8	5184.7 ug/L	41.33	5184.7 ppb	41.33	0.80%
QC value within limits for Al 396.153Radial Recovery = 103.69%						
As 188.979†	1197.4	516.35 ug/L	1.068	516.35 ppb	1.068	0.21%
QC value within limits for As 188.979 Recovery = 103.27%						
B 249.677†	22576.7	504.45 ug/L	3.897	504.45 ppb	3.897	0.77%
QC value within limits for B 249.677 Recovery = 100.89%						
Ba 233.527†	65586.6	509.45 ug/L	0.207	509.45 ppb	0.207	0.04%
QC value within limits for Ba 233.527 Recovery = 101.89%						
Be 313.107†	1362156.4	515.82 ug/L	2.116	515.82 ppb	2.116	0.41%
QC value within limits for Be 313.107 Recovery = 103.16%						
Ca 317.933Radial†	3235.7	5223.3 ug/L	72.20	5223.3 ppb	72.20	1.38%

QC value within limits for Ca 317.933 Radial Recovery = 104.47%

Cd 226.502†	46476.3	511.15 ug/L	1.140	511.15 ppb	1.140	0.22%
QC value within limits for Cd 226.502 Recovery = 102.23%						
Co 228.616†	24970.7	506.75 ug/L	0.999	506.75 ppb	0.999	0.20%
QC value within limits for Co 228.616 Recovery = 101.35%						
Cr 267.716†	45761.3	508.34 ug/L	1.100	508.34 ppb	1.100	0.22%
QC value within limits for Cr 267.716 Recovery = 101.67%						
Cu 324.752†	170828.7	509.60 ug/L	1.899	509.60 ppb	1.899	0.37%
QC value within limits for Cu 324.752 Recovery = 101.92%						
Fe 238.204 Radial†	611.1	5211.3 ug/L	58.99	5211.3 ppb	58.99	1.13%
QC value within limits for Fe 238.204 Radial Recovery = 104.23%						
K 766.490 Radial†	27423.4	4987.6 ug/L	31.08	4987.6 ppb	31.08	0.62%
QC value within limits for K 766.490 Radial Recovery = 99.75%						
Mg 279.077 IEC†	160.7	5335.9 ug/L	39.82	5335.9 ppb	39.82	0.75%
QC value within limits for Mg 279.077 IEC Recovery = 106.72%						
Mn 257.610†	464809.2	510.04 ug/L	0.649	510.04 ppb	0.649	0.13%
QC value within limits for Mn 257.610 Recovery = 102.01%						
Mo 202.031†	7330.9	511.99 ug/L	1.716	511.99 ppb	1.716	0.34%
QC value within limits for Mo 202.031 Recovery = 102.40%						
Na 589.592 Radial†	33864.3	9707.2 ug/L	31.44	9707.2 ppb	31.44	0.32%
QC value within limits for Na 589.592 Radial Recovery = 97.07%						
Ni 231.604†	20515.7	507.39 ug/L	0.280	507.39 ppb	0.280	0.06%
QC value within limits for Ni 231.604 Recovery = 101.48%						
P 214.914†	4246.7	2430.0 ug/L	2.05	2430.0 ppb	2.05	0.08%
QC value within limits for P 214.914 Recovery = 97.20%						
Pb 220.353†	4233.4	514.06 ug/L	0.928	514.06 ppb	0.928	0.18%
QC value within limits for Pb 220.353 Recovery = 102.81%						
S 181.975 Axial†	737.4	1025.3 ug/L	6.62	1025.3 ppb	6.62	0.65%
QC value within limits for S 181.975 Axial Recovery = 102.53%						
Sb 206.836†	1484.2	521.46 ug/L	2.512	521.46 ppb	2.512	0.48%
QC value within limits for Sb 206.836 Recovery = 104.29%						
Se 196.026†	817.1	531.82 ug/L	1.712	531.82 ppb	1.712	0.32%
QC value within limits for Se 196.026 Recovery = 106.36%						
Si 251.611†	80875.7	2553.9 ug/L	5.26	2553.9 ppb	5.26	0.21%
QC value within limits for Si 251.611 Recovery = 102.16%						
Sn 189.927†	2930.0	511.37 ug/L	1.835	511.37 ppb	1.835	0.36%
QC value within limits for Sn 189.927 Recovery = 102.27%						
Sr 421.552†	78031.7	498.16 ug/L	2.678	498.16 ppb	2.678	0.54%
QC value within limits for Sr 421.552 Recovery = 99.63%						
Ti 334.940†	320921.4	513.75 ug/L	1.017	513.75 ppb	1.017	0.20%
QC value within limits for Ti 334.940 Recovery = 102.75%						
Tl 190.801†	1660.9	504.94 ug/L	1.845	504.94 ppb	1.845	0.37%
QC value within limits for Tl 190.801 Recovery = 100.99%						
U 409.014†	16989.3	498.41 ug/L	5.492	498.41 ppb	5.492	1.10%
QC value within limits for U 409.014 Recovery = 99.68%						
V 292.402†	74753.7	513.83 ug/L	2.431	513.83 ppb	2.431	0.47%
QC value within limits for V 292.402 Recovery = 102.77%						
Zn 213.857†	54660.7	508.69 ug/L	0.876	508.69 ppb	0.876	0.17%
QC value within limits for Zn 213.857 Recovery = 101.74%						
SiO2†	81222.0	5464.4 ug/L	68.41	5464.4 ppb	68.41	1.25%
QC value within limits for SiO2 Recovery = 102.19%						

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/12/2010 17:40:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5050.4	5050.4	98.6 %		17:42:15
1	Y RADIAL	5387.0	5387.0	97.85 %		17:42:15
1	Al 396.153Radial†	6.3	12.5	10.052 ug/L	10.052 ppb	17:42:15
1	Ca 317.933Radial†	14.5	-4.5	-7.2003 ug/L	-7.2003 ppb	17:42:35
1	Fe 238.204 Radial†	11.7	0.4	3.0254 ug/L	3.0254 ppb	17:42:35
1	K 766.490 Radial†	2689.2	215.3	39.205 ug/L	39.205 ppb	17:42:15
1	Mg 279.077 IEC†	3.9	0.9	30.276 ug/L	30.276 ppb	17:42:35
1	Na 589.592 Radial†	-1312.4	-21.9	-6.2708 ug/L	-6.2708 ppb	17:42:15
1	Sr 421.552†	7.6	-2.0	-0.0128 ug/L	-0.0128 ppb	17:42:15
1	Sc 361.383	904505.5	904505.5	105.41 %		17:43:32
1	Y 371.029	762654.1	762654.1	104.81 %		17:43:32
1	Ag 328.068†	381.5	4.9	0.0227 ug/L	0.0227 ppb	17:43:37
1	As 188.979†	-23.9	1.2	0.5297 ug/L	0.5297 ppb	17:43:57
1	B 249.677†	-387.4	247.6	5.5566 ug/L	5.5566 ppb	17:43:57
1	Ba 233.527†	-19.1	-9.6	-0.0725 ug/L	-0.0725 ppb	17:43:57
1	Be 313.107†	-4492.9	212.4	0.0805 ug/L	0.0805 ppb	17:43:37
1	Cd 226.502†	-182.1	28.9	0.3182 ug/L	0.3182 ppb	17:43:57
1	Co 228.616†	-73.5	7.5	0.1507 ug/L	0.1507 ppb	17:43:57
1	Cr 267.716†	70.9	-11.7	-0.1303 ug/L	-0.1303 ppb	17:43:57
1	Cu 324.752†	6453.8	-279.9	-0.8376 ug/L	-0.8376 ppb	17:43:37
1	Mn 257.610†	416.5	-34.7	-0.0390 ug/L	-0.0390 ppb	17:43:57
1	Mo 202.031†	17.5	-5.1	-0.3524 ug/L	-0.3524 ppb	17:43:57
1	Ni 231.604†	70.6	-0.0	-0.0009 ug/L	-0.0009 ppb	17:43:57
1	P 214.914†	231.8	-0.4	-0.0333 ug/L	-0.0333 ppb	17:43:57
1	Pb 220.353†	-58.1	7.1	0.8591 ug/L	0.8591 ppb	17:43:57
1	S 181.975 Axial†	58.2	11.4	15.802 ug/L	15.802 ppb	17:43:57
1	Sb 206.836†	37.1	1.8	0.6236 ug/L	0.6236 ppb	17:43:57
1	Se 196.026†	-30.8	2.9	1.8069 ug/L	1.8069 ppb	17:43:57
1	Si 251.611†	487.2	1.5	0.0525 ug/L	0.0525 ppb	17:43:57
1	Sn 189.927†	14.8	12.4	2.1503 ug/L	2.1503 ppb	17:43:57
1	Ti 334.940†	-1324.2	77.9	0.1192 ug/L	0.1192 ppb	17:43:37
1	Tl 190.801†	-29.4	6.2	1.8751 ug/L	1.8751 ppb	17:43:57
1	U 409.014†	-1789.8	166.0	4.8862 ug/L	4.8862 ppb	17:43:32
1	V 292.402†	-1317.8	109.6	0.7470 ug/L	0.7470 ppb	17:43:37
1	Zn 213.857†	644.9	-12.9	-0.1203 ug/L	-0.1203 ppb	17:43:57
1	SiO2†	487.3	3.2	0.2280 ug/L	0.2280 ppb	17:45:03
2	Sc Radial	4831.2	4831.2	94.3 %		17:42:40
2	Y RADIAL	5221.0	5221.0	94.83 %		17:42:40
2	Al 396.153Radial†	3.5	9.9	7.8761 ug/L	7.8761 ppb	17:42:40
2	Ca 317.933Radial†	13.2	-5.2	-8.3508 ug/L	-8.3508 ppb	17:43:00
2	Fe 238.204 Radial†	9.7	-1.3	-11.190 ug/L	-11.190 ppb	17:43:00
2	K 766.490 Radial†	2635.3	281.8	51.332 ug/L	51.332 ppb	17:42:40
2	Mg 279.077 IEC†	0.9	-2.1	-68.277 ug/L	-68.277 ppb	17:43:00
2	Na 589.592 Radial†	-1288.1	-56.5	-16.184 ug/L	-16.184 ppb	17:42:40
2	Sr 421.552†	31.9	24.0	0.1534 ug/L	0.1534 ppb	17:42:40
2	Sc 361.383	881522.3	881522.3	102.73 %		17:44:02
2	Y 371.029	746169.7	746169.7	102.54 %		17:44:02
2	Ag 328.068†	356.5	-10.1	-0.0483 ug/L	-0.0483 ppb	17:44:07
2	As 188.979†	-25.2	-0.6	-0.2438 ug/L	-0.2438 ppb	17:44:27
2	B 249.677†	-453.1	174.0	3.9068 ug/L	3.9068 ppb	17:44:27
2	Ba 233.527†	-23.8	-14.5	-0.1122 ug/L	-0.1122 ppb	17:44:27
2	Be 313.107†	-4462.2	131.1	0.0497 ug/L	0.0497 ppb	17:44:07
2	Cd 226.502†	-193.0	13.7	0.1524 ug/L	0.1524 ppb	17:44:27
2	Co 228.616†	-62.8	16.1	0.3278 ug/L	0.3278 ppb	17:44:27
2	Cr 267.716†	88.8	7.5	0.0833 ug/L	0.0833 ppb	17:44:27
2	Cu 324.752†	6361.8	-209.9	-0.6269 ug/L	-0.6269 ppb	17:44:07
2	Mn 257.610†	420.2	-20.8	-0.0211 ug/L	-0.0211 ppb	17:44:27
2	Mo 202.031†	26.6	4.2	0.2931 ug/L	0.2931 ppb	17:44:27
2	Ni 231.604†	70.2	1.3	0.0328 ug/L	0.0328 ppb	17:44:27

2	P 214.914†	223.8	-2.5	-1.3211 ug/L	-1.3211 ppb	17:44:27
2	Pb 220.353†	-55.6	8.1	0.9828 ug/L	0.9828 ppb	17:44:27
2	S 181.975 Axial†	45.7	0.6	0.8879 ug/L	0.8879 ppb	17:44:27
2	Sb 206.836†	40.4	5.9	2.0154 ug/L	2.0154 ppb	17:44:27
2	Se 196.026†	-24.2	8.5	5.3056 ug/L	5.3056 ppb	17:44:27
2	Si 251.611†	491.5	17.7	0.5582 ug/L	0.5582 ppb	17:44:27
2	Sn 189.927†	6.1	4.3	0.7396 ug/L	0.7396 ppb	17:44:27
2	Ti 334.940†	-1327.2	42.3	0.0719 ug/L	0.0719 ppb	17:44:07
2	Tl 190.801†	-19.8	14.8	4.4751 ug/L	4.4751 ppb	17:44:27
2	U 409.014†	-1899.3	15.1	0.4453 ug/L	0.4453 ppb	17:44:02
2	V 292.402†	-1337.9	57.4	0.3946 ug/L	0.3946 ppb	17:44:07
2	Zn 213.857†	637.6	-4.0	-0.0357 ug/L	-0.0357 ppb	17:44:27
2	SiO2†	542.4	68.9	4.6424 ug/L	4.6424 ppb	17:45:08
3	Sc Radial	5248.9	5248.9	102 %		17:43:05
3	Y RADIAL	5624.0	5624.0	102.2 %		17:43:05
3	Al 396.153Radial†	-3.8	2.5	2.0017 ug/L	2.0017 ppb	17:43:05
3	Ca 317.933Radial†	18.8	-0.8	-1.3525 ug/L	-1.3525 ppb	17:43:25
3	Fe 238.204 Radial†	10.0	-1.8	-15.108 ug/L	-15.108 ppb	17:43:25
3	K 766.490 Radial†	2706.3	128.8	23.451 ug/L	23.451 ppb	17:43:05
3	Mg 279.077 IEC†	1.5	-1.6	-51.823 ug/L	-51.823 ppb	17:43:25
3	Na 589.592 Radial†	-1276.1	63.9	18.308 ug/L	18.308 ppb	17:43:05
3	Sr 421.552†	6.4	-3.5	-0.0226 ug/L	-0.0226 ppb	17:43:05
3	Sc 361.383	887100.9	887100.9	103.38 %		17:44:32
3	Y 371.029	750211.5	750211.5	103.10 %		17:44:32
3	Ag 328.068†	345.2	-23.2	-0.1088 ug/L	-0.1088 ppb	17:44:37
3	As 188.979†	-21.4	3.3	1.3974 ug/L	1.3974 ppb	17:44:57
3	B 249.677†	-412.0	216.6	4.8645 ug/L	4.8645 ppb	17:44:57
3	Ba 233.527†	-20.9	-11.7	-0.0908 ug/L	-0.0908 ppb	17:44:57
3	Be 313.107†	-4514.0	108.4	0.0413 ug/L	0.0413 ppb	17:44:37
3	Cd 226.502†	-194.6	13.4	0.1480 ug/L	0.1480 ppb	17:44:57
3	Co 228.616†	-77.9	1.9	0.0380 ug/L	0.0380 ppb	17:44:57
3	Cr 267.716†	83.8	2.1	0.0245 ug/L	0.0245 ppb	17:44:57
3	Cu 324.752†	6467.6	-146.5	-0.4361 ug/L	-0.4361 ppb	17:44:37
3	Mn 257.610†	418.0	-25.5	-0.0273 ug/L	-0.0273 ppb	17:44:57
3	Mo 202.031†	17.1	-5.1	-0.3550 ug/L	-0.3550 ppb	17:44:57
3	Ni 231.604†	57.3	-11.6	-0.2871 ug/L	-0.2871 ppb	17:44:57
3	P 214.914†	231.8	3.9	2.4672 ug/L	2.4672 ppb	17:44:57
3	Pb 220.353†	-57.2	6.8	0.8276 ug/L	0.8276 ppb	17:44:57
3	S 181.975 Axial†	48.5	3.1	4.2674 ug/L	4.2674 ppb	17:44:57
3	Sb 206.836†	40.0	5.3	1.7777 ug/L	1.7777 ppb	17:44:57
3	Se 196.026†	-28.5	4.5	2.7927 ug/L	2.7927 ppb	17:44:57
3	Si 251.611†	481.3	4.9	0.1590 ug/L	0.1590 ppb	17:44:57
3	Sn 189.927†	1.7	-0.0	-0.0038 ug/L	-0.0038 ppb	17:44:57
3	Ti 334.940†	-1289.3	87.0	0.1447 ug/L	0.1447 ppb	17:44:37
3	Tl 190.801†	-19.4	15.3	4.6263 ug/L	4.6263 ppb	17:44:57
3	U 409.014†	-2034.3	-103.9	-3.0568 ug/L	-3.0568 ppb	17:44:32
3	V 292.402†	-1407.4	-1.6	-0.0205 ug/L	-0.0205 ppb	17:44:37
3	Zn 213.857†	637.9	-7.7	-0.0682 ug/L	-0.0682 ppb	17:44:57
3	SiO2†	509.5	33.8	2.2893 ug/L	2.2893 ppb	17:45:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	891042.9	103.84 %	1.397			1.35%
Sc Radial	5043.5	98.5 %	4.08			4.14%
Y 371.029	753011.8	103.48 %	1.181			1.14%
Y RADIAL	5410.7	98.28 %	3.679			3.74%
Ag 328.068†	-9.5	-0.0448 ug/L	0.06581	-0.0448 ppb	0.06581	146.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.3	6.6431 ug/L	4.16422	6.6431 ppb	4.16422	62.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.3	0.5611 ug/L	0.82104	0.5611 ppb	0.82104	146.32%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	212.7	4.7760 ug/L	0.82848	4.7760 ppb	0.82848	17.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-11.9	-0.0918 ug/L	0.01986	-0.0918 ppb	0.01986	21.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	150.7	0.0572 ug/L	0.02068	0.0572 ppb	0.02068	36.18%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.5	-5.6346 ug/L	3.75269	-5.6346 ppb	3.75269	66.60%

QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	18.7 0.2062 ug/L	0.09703 0.2062 ppb	0.09703 47.06%
QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	8.5 0.1722 ug/L	0.14611 0.1722 ppb	0.14611 84.86%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-0.7 -0.0075 ug/L	0.11031 -0.0075 ppb	0.11031 >999.9%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-212.1 -0.6335 ug/L	0.20082 -0.6335 ppb	0.20082 31.70%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-0.9 -7.7575 ug/L	9.54148 -7.7575 ppb	9.54148 123.00%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	208.6 37.996 ug/L	13.9798 37.996 ppb	13.9798 36.79%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-0.9 -29.941 ug/L	52.7948 -29.941 ppb	52.7948 176.33%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-27.0 -0.0291 ug/L	0.00906 -0.0291 ppb	0.00906 31.09%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-2.0 -0.1381 ug/L	0.37343 -0.1381 ppb	0.37343 270.40%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-4.8 -1.3822 ug/L	17.75775 -1.3822 ppb	17.75775 >999.9%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-3.4 -0.0851 ug/L	0.17577 -0.0851 ppb	0.17577 206.59%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	0.3 0.3709 ug/L	1.92623 0.3709 ppb	1.92623 519.28%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	7.3 0.8898 ug/L	0.08204 0.8898 ppb	0.08204 9.22%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	5.0 6.9857 ug/L	7.81975 6.9857 ppb	7.81975 111.94%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	4.3 1.4722 ug/L	0.74448 1.4722 ppb	0.74448 50.57%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	5.3 3.3017 ug/L	1.80405 3.3017 ppb	1.80405 54.64%
QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	8.1 0.2566 ug/L	0.26658 0.2566 ppb	0.26658 103.90%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.5 0.9620 ug/L	1.09412 0.9620 ppb	1.09412 113.73%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	6.2 0.0393 ug/L	0.09889 0.0393 ppb	0.09889 251.53%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	69.1 0.1119 ug/L	0.03694 0.1119 ppb	0.03694 33.00%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	12.1 3.6589 ug/L	1.54662 3.6589 ppb	1.54662 42.27%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	25.7 0.7582 ug/L	3.98074 0.7582 ppb	3.98074 524.99%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	55.1 0.3737 ug/L	0.38417 0.3737 ppb	0.38417 102.81%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	-8.2 -0.0747 ug/L	0.04269 -0.0747 ppb	0.04269 57.11%
QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	35.3 2.3866 ug/L	2.20882 2.3866 ppb	2.20882 92.55%
QC value within limits for SiO2	Recovery = Not calculated		

All analyte(s) passed QC.

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Sunday, January 03, 2010 14:14:04

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1646

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	4529.7	4529.718	79.085	1.7
Mg	24.0	48383.4	48383.404	575.294	1.2
Co	58.9	93399.2	93399.174	1332.998	1.4
Rh	102.9	177381.9	177381.878	885.008	0.5
In	114.9	233658.3	233658.280	2035.639	0.9
Pb	208.0	265884.5	265884.502	3858.984	1.5
[> Ba	137.9	237479.3	237479.332	1260.587	0.5
[Ba++	69.0	5196.0	0.022	0.000	0.9
[> Ce	139.9	293550.0	293549.998	3117.206	1.1
[CeO	155.9	6435.4	0.022	0.000	1.2
Bkgd	220.0	18.2	18.200	2.564	14.1

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
7.00	Lens Voltage
1450.00	ICP RF Power
-1687.50	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	8.3	5205.6
Co	59	13	8.8	90127.4
In	115	13	10.3	227698.6

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	595	2065	0.579
Be	9.0	9.0	2059	2070	0.620
Mg	24.0	24.0	5695	2070	0.648
Mg	25.0	25.0	5935	2070	0.610
Mg	26.0	25.9	6172	2070	0.628
Co	58.9	58.9	14188	2105	0.608
Rh	102.9	102.9	24884	2165	0.604
In	114.9	114.9	27798	2185	0.599
Ce	139.9	139.9	33870	2200	0.627
Pb	206.0	206.0	49948	2270	0.665
Pb	207.0	207.0	50171	2235	0.674
Pb	208.0	208.0	50451	2260	0.711
U	238.1	238.1	57736	2275	0.727

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Sunday, January 03, 2010 18:25:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\Blank.081

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		74	
Be	9		ug/L		16	
B	11		ug/L		667	
Na	23		ug/L		17679	
Mg	24		ug/L		2000	
Al	27		ug/L		4334	
P	31		ug/L		7059	
K	39		ug/L		629926	
Ca	43		ug/L		259	
> Sc	45		ug/L		1413157	
Ti	47		ug/L		356	
V	51		ug/L		11568	
Cr	52		ug/L		-1762	
Cr	53		ug/L		157290	
Mn	55		ug/L		1160	
Fe	57		ug/L		5195	
Co	59		ug/L		93	
Ni	60		ug/L		70	
Cu	63		ug/L		290	
Cu	65		ug/L		131	
Zn	66		ug/L		253	
Zn	67		ug/L		18419	
Zn	68		ug/L		2081	
> Ge	74		ug/L		469831	
As	75		ug/L		-410	
Se	77		ug/L		8356	
Se	82		ug/L		-27	
Kr	83		ug/L		124	
Sr	88		ug/L		186	
Y	89		ug/L		64	
Mo	98		ug/L		95	
Ag	107		ug/L		49	
Cd	111		ug/L		29	
Cd	114		ug/L		39	
> In	115		ug/L		296035	
Sn	120		ug/L		381	
Sb	121		ug/L		423	
Sb	123		ug/L		338	
Ba	135		ug/L		36	
Ba	137		ug/L		46	
Ho	165		ug/L		24	
> Lu	175		ug/L		600437	
Tl	205		ug/L		4030	
Pb	208		ug/L		399	
Bi	209		ug/L		187	
Th	232		ug/L		916	
U	238		ug/L		379	

Sample ID: Blank

Report Date/Time: Sunday, January 03, 2010 18:28:42

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	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	0.9999
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: Sunday, January 03, 2010 18:32:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\Standard 1.082

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	1.896	20432	0.015
Be	9	10.000	ug/L	3.466	4855	0.003
B	11	20.000	ug/L	3.247	10642	0.007
Na	23	1000.000	ug/L	2.255	4965016	3.533
Mg	24	1000.000	ug/L	3.039	3242789	2.314
Al	27	1000.000	ug/L	3.564	4817858	3.438
P	31	1000.000	ug/L	1.596	286170	0.199
K	39	1000.000	ug/L	8.140	6522832	4.215
Ca	43	1000.000	ug/L	2.529	14765	0.010
> Sc	45		ug/L		1400292	1400291.854
Ti	47	10.000	ug/L	2.330	7747	0.005
V	51	10.000	ug/L	0.826	95271	0.060
Cr	52	10.000	ug/L	1.463	64949	0.048
Cr	53		ug/L		151989	-0.003
Mn	55	10.000	ug/L	0.577	108278	0.077
Fe	57	1000.000	ug/L	2.137	218547	0.152
Co	59	10.000	ug/L	1.525	81915	0.058
Ni	60	10.000	ug/L	1.689	17834	0.013
Cu	63		ug/L		43243	0.031
Cu	65	10.000	ug/L	0.782	21060	0.015
Zn	66	10.000	ug/L	2.101	14669	0.031
Zn	67		ug/L		19901	0.004
Zn	68		ug/L		12428	0.022
> Ge	74		ug/L		463616	463616.444
As	75	10.000	ug/L	4.450	14171	0.031
Se	77		ug/L		8800	0.001
Se	82	10.000	ug/L	3.250	1354	0.003
Kr	83		ug/L		107	-0.000
Sr	88	10.000	ug/L	0.972	171806	0.586
Y	89		ug/L		79	0.000
Mo	98	10.000	ug/L	1.970	41016	0.140
Ag	107	10.000	ug/L	1.871	73385	0.250
Cd	111	10.000	ug/L	2.753	17556	0.060
Cd	114		ug/L		42197	0.144
> In	115		ug/L		292880	292880.285
Sn	120	10.000	ug/L	2.646	75463	0.256
Sb	121	10.000	ug/L	2.759	66902	0.227
Sb	123		ug/L		52496	0.178
Ba	135		ug/L		19734	0.033
Ba	137	10.000	ug/L	1.504	34947	0.058
Ho	165		ug/L		36	0.000
> Lu	175		ug/L		604378	604377.944
Tl	205	10.000	ug/L	1.552	310706	0.507
Pb	208	10.000	ug/L	2.216	481966	0.797
Bi	209		ug/L		230	0.000
Th	232	10.000	ug/L	1.153	598983	0.990
U	238	10.000	ug/L	0.707	638638	1.056

Sample ID: Standard 1

Report Date/Time: Sunday, January 03, 2010 18:34:46

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

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, January 03, 2010 18:38:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\Standard 2.083

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.020	ug/L	0.385	201279	0.148
Be	9	99.990	ug/L	1.523	46443	0.034
B	11	199.927	ug/L	2.724	93898	0.069
Na	23	9994.494	ug/L	6.989	45418461	33.472
Mg	24	10002.554	ug/L	9.336	32229946	23.752
Al	27	9993.938	ug/L	5.498	43937890	32.391
P	31	10003.816	ug/L	2.345	2819521	2.074
K	39	9997.205	ug/L	5.449	56196706	40.991
Ca	43	9997.865	ug/L	1.905	137844	0.101
> Sc	45		ug/L		1356427	1356427.282
Ti	47	99.998	ug/L	2.602	71838	0.053
V	51	99.958	ug/L	0.576	789498	0.574
Cr	52	99.939	ug/L	0.121	606612	0.448
Cr	53		ug/L		185910	0.026
Mn	55	99.927	ug/L	3.206	967741	0.713
Fe	57	9985.553	ug/L	1.433	1808682	1.330
Co	59	99.940	ug/L	1.299	747640	0.551
Ni	60	99.967	ug/L	1.884	166684	0.123
Cu	63		ug/L		395778	0.292
Cu	65	99.955	ug/L	2.588	194010	0.143
Zn	66	99.944	ug/L	1.597	133003	0.294
Zn	67		ug/L		37506	0.044
Zn	68		ug/L		97947	0.213
> Ge	74		ug/L		450891	450891.334
As	75	99.951	ug/L	2.579	134595	0.299
Se	77		ug/L		16067	0.018
Se	82	99.990	ug/L	1.342	13258	0.029
Kr	83		ug/L		123	0.000
Sr	88	99.878	ug/L	1.553	1493282	5.218
Y	89		ug/L		208	0.001
Mo	98	99.984	ug/L	0.274	393804	1.376
Ag	107	99.919	ug/L	2.746	662581	2.315
Cd	111	99.988	ug/L	1.787	169374	0.592
Cd	114		ug/L		397994	1.391
> In	115		ug/L		286198	286197.846
Sn	120	99.957	ug/L	1.463	704008	2.459
Sb	121	99.954	ug/L	2.183	621244	2.170
Sb	123		ug/L		490297	1.712
Ba	135		ug/L		186331	0.321
Ba	137	99.973	ug/L	1.919	326928	0.562
Ho	165		ug/L		35	0.000
> Lu	175		ug/L		581333	581332.669
Tl	205	99.879	ug/L	4.100	2630572	4.520
Pb	208	99.867	ug/L	1.890	4084454	7.027
Bi	209		ug/L		543	0.001
Th	232	99.854	ug/L	3.887	5013521	8.626
U	238	99.888	ug/L	2.417	5512100	9.483

Sample ID: Standard 2

Report Date/Time: Sunday, January 03, 2010 18:40:50

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	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	0.9999
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

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, January 03, 2010 18:44:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 1.084

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.148	ug/L	1.195	104865	0.076
Be	9	49.885	ug/L	0.499	23608	0.017
B	11	101.099	ug/L	1.884	48686	0.035
Na	23	4835.803	ug/L	2.700	22393824	16.195
Mg	24	4951.492	ug/L	3.957	16240143	11.758
Al	27	5094.158	ug/L	3.313	22822550	16.511
P	31	4287.216	ug/L	1.432	1234615	0.889
K	39	5321.226	ug/L	6.371	30741752	21.818
Ca	43	4859.379	ug/L	1.952	68365	0.049
> Sc	45		ug/L		1381607	1381606.605
Ti	47	48.934	ug/L	1.475	35986	0.026
V	51	49.529	ug/L	2.378	404100	0.284
Cr	52	51.095	ug/L	2.048	314990	0.229
Cr	53		ug/L		149475	-0.003
Mn	55	51.162	ug/L	2.809	505126	0.365
Fe	57	5250.154	ug/L	2.916	970765	0.699
Co	59	50.830	ug/L	1.659	387287	0.280
Ni	60	51.392	ug/L	1.402	87302	0.063
Cu	63		ug/L		205376	0.148
Cu	65	51.082	ug/L	0.737	101054	0.073
Zn	66	51.152	ug/L	1.366	70101	0.151
Zn	67		ug/L		27260	0.020
Zn	68		ug/L		52982	0.110
> Ge	74		ug/L		463459	463458.993
As	75	48.148	ug/L	0.191	66450	0.144
Se	77		ug/L		10822	0.006
Se	82	48.607	ug/L	1.261	6612	0.014
Kr	83		ug/L		118	-0.000
Sr	88	51.907	ug/L	3.989	799326	2.712
Y	89		ug/L		102	0.000
Mo	98	49.560	ug/L	2.751	201128	0.682
Ag	107	51.107	ug/L	2.477	349174	1.184
Cd	111	49.212	ug/L	4.260	85861	0.291
Cd	114		ug/L		202172	0.686
> In	115		ug/L		294959	294958.712
Sn	120	50.679	ug/L	3.568	367798	1.247
Sb	121	49.705	ug/L	2.468	318514	1.079
Sb	123		ug/L		251681	0.853
Ba	135		ug/L		94499	0.160
Ba	137	49.920	ug/L	2.152	165928	0.281
Ho	165		ug/L		59	0.000
> Lu	175		ug/L		590805	590804.957
Tl	205	49.617	ug/L	0.805	1330592	2.245
Pb	208	53.015	ug/L	2.461	2203668	3.730
Bi	209		ug/L		621	0.001
Th	232	50.186	ug/L	0.861	2562252	4.336
U	238	51.848	ug/L	3.353	2907723	4.922

Sample ID: QC Std 1

Report Date/Time: Sunday, January 03, 2010 18:46:54

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	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	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	0.9999
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	102.297				
|	Be	9	99.771				
|	B	11	101.099				
|	Na	23	96.716				
|	Mg	24	99.030				
|	Al	27	100.874				
|	P	31	85.744				
|	K	39	106.425				
|	Ca	43	97.188				
>	Sc	45		97.8			
|	Ti	47	97.869				
|	V	51	99.058				
|	Cr	52	102.189				
|	Cr	53					
|	Mn	55	102.323				
|	Fe	57	105.003				
|	Co	59	101.659				
|	Ni	60	102.783				
|	Cu	63					
|	Cu	65	102.164				
|	Zn	66	102.305				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.6			
|	As	75	96.297				
|	Se	77					
|	Se	82	97.214				
|	Kr	83					
|	Sr	88	103.814				
|	Y	89					
|	Mo	98	99.120				
|	Ag	107	102.214				
|	Cd	111	98.424				
|	Cd	114					
>	In	115		99.6			
|	Sn	120	101.358				
|	Sb	121	99.409				
|	Sb	123					
|	Ba	135					
|	Ba	137	99.841				
|	Ho	165					
>	Lu	175		98.4			
|	Tl	205	99.234				
|	Pb	208	106.029				
|	Bi	209					
|	Th	232	100.372				
|	U	238	103.696				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	P		31ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, January 03, 2010 18:50:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 2.085

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.013	ug/L	26.933	98	0.000
Be	9	0.003	ug/L	283.538	17	0.000
B	11	2.633	ug/L	20.710	1875	0.001
Na	23	-0.447	ug/L	123.871	15008	-0.001
Mg	24	-0.082	ug/L	573.538	1667	-0.000
Al	27	0.489	ug/L	53.490	6335	0.002
P	31	-0.390	ug/L	47.694	6692	-0.000
K	39	-8.651	ug/L	40.516	558730	-0.035
Ca	43	2.224	ug/L	32.792	280	0.000
> Sc	45		ug/L		1361537	1361536.770
Ti	47	-0.022	ug/L	49.515	327	-0.000
V	51	-0.262	ug/L	71.685	9087	-0.002
Cr	52	0.303	ug/L	6.697	154	0.001
Cr	53		ug/L		117207	-0.025
Mn	55	-0.012	ug/L	25.238	1002	-0.000
Fe	57	-0.731	ug/L	71.825	4872	-0.000
Co	59	0.004	ug/L	33.153	119	0.000
Ni	60	0.009	ug/L	38.657	82	0.000
Cu	63		ug/L		652	0.000
Cu	65	0.009	ug/L	107.731	145	0.000
Zn	66	0.012	ug/L	68.398	262	0.000
Zn	67		ug/L		15962	-0.004
Zn	68		ug/L		1695	-0.001
> Ge	74		ug/L		457304	457304.486
As	75	0.304	ug/L	27.825	18	0.001
Se	77		ug/L		5886	-0.005
Se	82	0.199	ug/L	49.862	1	0.000
Kr	83		ug/L		111	-0.000
Sr	88	0.002	ug/L	48.367	213	0.000
Y	89		ug/L		59	-0.000
Mo	98	0.042	ug/L	26.308	259	0.001
Ag	107	0.004	ug/L	30.187	73	0.000
Cd	111	0.001	ug/L	1142.711	30	0.000
Cd	114		ug/L		52	0.000
> In	115		ug/L		289411	289410.821
Sn	120	0.136	ug/L	15.066	1338	0.003
Sb	121	0.296	ug/L	16.351	2274	0.006
Sb	123		ug/L		1759	0.005
Ba	135		ug/L		46	0.000
Ba	137	0.001	ug/L	44.013	50	0.000
Ho	165		ug/L		28	0.000
> Lu	175		ug/L		594485	594485.014
Tl	205	0.400	ug/L	22.190	14739	0.018
Pb	208	0.004	ug/L	41.827	558	0.000
Bi	209		ug/L		189	0.000
Th	232	0.055	ug/L	19.830	3708	0.005
U	238	0.007	ug/L	20.413	778	0.001

Sample ID: QC Std 2

Report Date/Time: Sunday, January 03, 2010 18:53:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	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	0.9999
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

Sample ID: QC Std 2

Report Date/Time: Sunday, January 03, 2010 18:53:04

Page 2

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		96.3			
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		97.3			
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		99.0			
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: Sunday, January 03, 2010 18:56:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 3.086

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.840	ug/L	1.509	22195	0.016
Be	9	0.526	ug/L	9.828	263	0.000
B	11	16.608	ug/L	2.712	8508	0.006
Na	23	264.355	ug/L	10.565	1234775	0.885
Mg	24	18.299	ug/L	22.480	61805	0.043
Al	27	33.901	ug/L	15.240	155522	0.110
P	31	47.205	ug/L	5.895	20335	0.010
K	39	298.570	ug/L	8.943	2297677	1.224
Ca	43	216.427	ug/L	1.619	3274	0.002
> Sc	45		ug/L		1375985	1375985.006
Ti	47	8.508	ug/L	2.292	6519	0.004
V	51	10.691	ug/L	2.315	95712	0.061
Cr	52	11.034	ug/L	1.900	66410	0.050
Cr	53		ug/L		127372	-0.019
Mn	55	5.871	ug/L	1.024	58748	0.042
Fe	57	120.409	ug/L	2.346	27120	0.016
Co	59	1.126	ug/L	1.233	8634	0.006
Ni	60	2.214	ug/L	1.902	3812	0.003
Cu	63		ug/L		4920	0.003
Cu	65	1.158	ug/L	1.773	2406	0.002
Zn	66	11.127	ug/L	0.907	15102	0.033
Zn	67		ug/L		18849	0.002
Zn	68		ug/L		12489	0.023
> Ge	74		ug/L		453207	453206.512
As	75	5.737	ug/L	4.338	7394	0.017
Se	77		ug/L		6626	-0.003
Se	82	5.557	ug/L	1.521	716	0.002
Kr	83		ug/L		117	-0.000
Sr	88	11.754	ug/L	0.934	180253	0.614
Y	89		ug/L		54	-0.000
Mo	98	0.545	ug/L	3.015	2293	0.008
Ag	107	1.059	ug/L	0.682	7249	0.025
Cd	111	1.075	ug/L	3.084	1894	0.006
Cd	114		ug/L		4410	0.015
> In	115		ug/L		293304	293303.702
Sn	120	5.424	ug/L	3.048	39493	0.133
Sb	121	3.333	ug/L	2.989	21627	0.072
Sb	123		ug/L		17202	0.058
Ba	135		ug/L		4010	0.007
Ba	137	2.128	ug/L	2.005	7034	0.012
Ho	165		ug/L		29	0.000
> Lu	175		ug/L		583848	583848.263
Tl	205	1.270	ug/L	3.770	37475	0.057
Pb	208	2.420	ug/L	1.173	99786	0.170
Bi	209		ug/L		194	0.000
Th	232	1.290	ug/L	2.482	65932	0.111
U	238	0.262	ug/L	2.088	14879	0.025

Sample ID: QC Std 3

Report Date/Time: Sunday, January 03, 2010 18:59:09

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	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	0.9999
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	108.403				
Be	9	105.102				
B	11	110.719				
Na	23	105.742				
Mg	24	121.992				
Al	27	113.004				
P	31	94.410				
K	39	99.523				
Ca	43	108.213				
> Sc	45		97.4			
Ti	47	85.084				
V	51	106.906				
Cr	52	110.342				
Cr	53					
Mn	55	117.429				
Fe	57	120.409				
Co	59	112.607				
Ni	60	110.708				
Cu	63					
Cu	65	115.753				
Zn	66	111.271				
Zn	67					
Zn	68					
> Ge	74		96.5			
As	75	114.749				
Se	77					
Se	82	111.147				
Kr	83					
Sr	88	117.539				
Y	89					
Mo	98	109.029				
Ag	107	105.944				
Cd	111	107.470				
Cd	114					
> In	115		99.1			
Sn	120	108.471				
Sb	121	111.088				
Sb	123					
Ba	135					
Ba	137	106.413				
Ho	165					
> Lu	175		97.2			
Tl	205	127.043				
Pb	208	120.994				
Bi	209					
Th	232	128.983				
U	238	130.921				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, January 03, 2010 19:02:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 4.087

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.136	ug/L	8.560	307	0.000
Be	9	0.077	ug/L	20.620	45	0.000
B	11	1.954	ug/L	5.633	1377	0.001
Na	23	91668.464	ug/L	3.169	369403480	307.003
Mg	24	95603.087	ug/L	4.975	273302490	227.018
Al	27	100369.919	ug/L	3.749	391552701	325.307
P	31	92583.900	ug/L	1.452	23102005	19.193
K	39	99289.639	ug/L	2.273	490497382	407.111
Ca	43	93306.584	ug/L	0.739	1139680	0.947
> Sc	45		ug/L		1203508	1203508.234
Ti	47	1380.818	ug/L	2.287	876196	0.728
V	51	-0.253	ug/L	68.295	8095	-0.001
Cr	52	3.013	ug/L	2.924	14767	0.014
Cr	53		ug/L		85333	-0.040
Mn	55	6.259	ug/L	2.151	54710	0.045
Fe	57	102046.217	ug/L	1.813	16357381	13.590
Co	59	0.350	ug/L	7.101	2398	0.002
Ni	60	3.094	ug/L	3.024	4634	0.004
Cu	63		ug/L		7748	0.006
Cu	65	3.067	ug/L	4.752	5390	0.004
Zn	66	3.672	ug/L	2.078	4635	0.011
Zn	67		ug/L		13818	-0.005
Zn	68		ug/L		2264	0.001
> Ge	74		ug/L		408162	408162.445
As	75	0.184	ug/L	167.508	-131	0.001
Se	77		ug/L		6659	-0.001
Se	82	-1.054	ug/L	21.632	-150	-0.000
Kr	83		ug/L		316	0.001
Sr	88	1.301	ug/L	1.902	17622	0.068
Y	89		ug/L		572	0.002
Mo	98	2023.875	ug/L	0.314	7154333	27.847
Ag	107	0.088	ug/L	13.790	569	0.002
Cd	111	0.395	ug/L	23.127	626	0.002
Cd	114		ug/L		11143	0.043
> In	115		ug/L		256918	256917.835
Sn	120	0.155	ug/L	4.670	1308	0.004
Sb	121	0.065	ug/L	16.042	732	0.001
Sb	123		ug/L		587	0.001
Ba	135		ug/L		1202	0.002
Ba	137	0.685	ug/L	1.698	2072	0.004
Ho	165		ug/L		1306	0.002
> Lu	175		ug/L		527394	527394.369
Tl	205	0.057	ug/L	25.869	4890	0.003
Pb	208	0.194	ug/L	0.472	7540	0.014
Bi	209		ug/L		1664	0.003
Th	232	0.045	ug/L	34.543	2860	0.004
U	238	-0.002	ug/L	52.917	227	-0.000

Sample ID: QC Std 4

Report Date/Time: Sunday, January 03, 2010 19:05:16

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	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	0.9999
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	91.668				
Mg	24	95.603				
Al	27	100.370				
P	31	92.584				
K	39	99.290				
Ca	43	93.307				
> Sc	45		85.2			
Ti	47	69.041				
V	51					
Cr	52	81.433				
Cr	53					
Mn	55	107.919				
Fe	57	102.046				
Co	59	139.862				
Ni	60	114.583				
Cu	63					
Cu	65	105.743				
Zn	66	101.993				
Zn	67					
Zn	68					
> Ge	74		86.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	108.411				
Y	89					
Mo	98	101.194				
Ag	107					
Cd	111	98.688				
Cd	114					
> In	115		86.8			
Sn	120					
Sb	121	65.365				
Sb	123					
Ba	135					
Ba	137	102.218				
Ho	165					
> Lu	175		87.8			
Tl	205					
Pb	208	96.871				
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Ti		47ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Sunday, January 03, 2010 19:08:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 5.088

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.479	ug/L	2.050	37687	0.032
Be	9	19.207	ug/L	2.295	7779	0.007
B	11	18.113	ug/L	1.240	7917	0.006
Na	23	88023.919	ug/L	4.504	348544631	294.798
Mg	24	89721.967	ug/L	4.000	251691659	213.053
Al	27	96325.822	ug/L	5.168	369000510	312.199
P	31	90999.014	ug/L	3.574	22284335	18.864
K	39	104502.784	ug/L	7.122	506161970	428.486
Ca	43	91704.387	ug/L	1.901	1099335	0.930
> Sc	45		ug/L		1181556	1181556.071
Ti	47	1348.092	ug/L	1.535	839759	0.711
V	51	20.147	ug/L	3.012	146269	0.116
Cr	52	23.181	ug/L	2.737	121398	0.104
Cr	53		ug/L		95673	-0.030
Mn	55	27.403	ug/L	2.111	231825	0.195
Fe	57	100334.395	ug/L	2.546	15784798	13.362
Co	59	20.800	ug/L	2.232	135553	0.115
Ni	60	22.402	ug/L	2.821	32566	0.028
Cu	63		ug/L		73012	0.062
Cu	65	21.854	ug/L	2.614	37021	0.031
Zn	66	21.332	ug/L	0.930	25753	0.063
Zn	67		ug/L		16735	0.002
Zn	68		ug/L		17923	0.040
> Ge	74		ug/L		406272	406271.840
As	75	20.445	ug/L	1.205	24531	0.061
Se	77		ug/L		8302	0.003
Se	82	19.154	ug/L	2.552	2270	0.006
Kr	83		ug/L		291	0.000
Sr	88	23.517	ug/L	1.190	312500	1.229
Y	89		ug/L		548	0.002
Mo	98	2009.080	ug/L	2.999	7028378	27.643
Ag	107	19.927	ug/L	1.351	117444	0.462
Cd	111	19.716	ug/L	1.577	29694	0.117
Cd	114		ug/L		79444	0.312
> In	115		ug/L		254259	254258.924
Sn	120	20.993	ug/L	0.964	131621	0.516
Sb	121	21.162	ug/L	1.563	117153	0.459
Sb	123		ug/L		92287	0.362
Ba	135		ug/L		33964	0.065
Ba	137	20.343	ug/L	1.618	60155	0.114
Ho	165		ug/L		1298	0.002
> Lu	175		ug/L		525340	525339.927
Tl	205	20.412	ug/L	2.011	488823	0.924
Pb	208	21.152	ug/L	0.727	782200	1.488
Bi	209		ug/L		2083	0.004
Th	232	22.389	ug/L	0.713	1016887	1.934
U	238	22.308	ug/L	0.551	1112956	2.118

Sample ID: QC Std 5

Report Date/Time: Sunday, January 03, 2010 19:11:22

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	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	0.9999
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	107.395				
Be	9	96.036				
B	11	90.566				
Na	23	88.024				
Mg	24	89.722				
Al	27	96.326				
P	31	90.999				
K	39	104.503				
Ca	43	91.704				
> Sc	45		83.6			
Ti	47	67.405				
V	51	100.734				
Cr	52	97.811				
Cr	53					
Mn	55	106.213				
Fe	57	100.334				
Co	59	102.718				
Ni	60	98.687				
Cu	63					
Cu	65	95.431				
Zn	66	90.390				
Zn	67					
Zn	68					
> Ge	74		86.5			
As	75	102.224				
Se	77					
Se	82	95.769				
Kr	83					
Sr	88	110.930				
Y	89					
Mo	98	100.454				
Ag	107	99.637				
Cd	111	96.647				
Cd	114					
> In	115		85.9			
Sn	120	104.967				
Sb	121	105.285				
Sb	123					
Ba	135					
Ba	137	98.417				
Ho	165					
> Lu	175		87.5			
Tl	205	102.058				
Pb	208	104.715				
Bi	209					
Th	232	111.946				
U	238	111.542				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ti	47	CSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, January 03, 2010 19:14:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 6.089

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	55.396	ug/L	2.224	102800	0.082
Be	9	52.167	ug/L	3.017	22341	0.018
B	11	96.376	ug/L	5.072	42020	0.033
Na	23	4431.551	ug/L	7.306	18561642	14.842
Mg	24	4706.139	ug/L	3.697	13975431	11.175
Al	27	5104.433	ug/L	3.298	20690056	16.544
P	31	4270.691	ug/L	1.847	1113249	0.885
K	39	5122.515	ug/L	1.805	26825605	21.004
Ca	43	4953.774	ug/L	2.221	63074	0.050
> Sc	45		ug/L		1250651	1250651.066
Ti	47	50.068	ug/L	0.812	33321	0.026
V	51	50.358	ug/L	4.240	371640	0.289
Cr	52	52.011	ug/L	2.386	290252	0.233
Cr	53		ug/L		136683	-0.002
Mn	55	53.706	ug/L	1.310	480005	0.383
Fe	57	5493.888	ug/L	2.459	919347	0.732
Co	59	53.053	ug/L	0.613	365938	0.293
Ni	60	53.759	ug/L	1.975	82658	0.066
Cu	63		ug/L		190784	0.152
Cu	65	52.737	ug/L	0.527	94447	0.075
Zn	66	51.496	ug/L	1.766	65615	0.152
Zn	67		ug/L		25140	0.019
Zn	68		ug/L		48895	0.109
> Ge	74		ug/L		430964	430964.419
As	75	49.965	ug/L	0.335	64134	0.150
Se	77		ug/L		9961	0.005
Se	82	50.021	ug/L	1.034	6327	0.015
Kr	83		ug/L		111	-0.000
Sr	88	53.339	ug/L	1.468	772623	2.786
Y	89		ug/L		97	0.000
Mo	98	50.171	ug/L	0.906	191476	0.690
Ag	107	52.724	ug/L	0.632	338752	1.222
Cd	111	50.515	ug/L	0.909	82910	0.299
Cd	114		ug/L		195464	0.705
> In	115		ug/L		277241	277240.697
Sn	120	51.551	ug/L	1.709	351886	1.268
Sb	121	50.958	ug/L	2.396	307017	1.106
Sb	123		ug/L		242424	0.873
Ba	135		ug/L		89621	0.157
Ba	137	49.364	ug/L	0.652	158304	0.278
Ho	165		ug/L		55	0.000
> Lu	175		ug/L		569921	569921.118
Tl	205	49.430	ug/L	1.267	1278703	2.237
Pb	208	52.709	ug/L	0.610	2114016	3.709
Bi	209		ug/L		591	0.001
Th	232	50.212	ug/L	0.532	2473075	4.338
U	238	51.949	ug/L	1.436	2811095	4.932

Sample ID: QC Std 6

Report Date/Time: Sunday, January 03, 2010 19:17:30

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	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	0.9999
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	110.792				
Be	9	104.334				
B	11	96.376				
Na	23	88.631				
Mg	24	94.123				
Al	27	101.078				
P	31	85.414				
K	39	102.450				
Ca	43	99.075				
> Sc	45		88.5			
Ti	47	100.136				
V	51	100.717				
Cr	52	104.023				
Cr	53					
Mn	55	107.412				
Fe	57	109.878				
Co	59	106.106				
Ni	60	107.518				
Cu	63					
Cu	65	105.473				
Zn	66	102.992				
Zn	67					
Zn	68					
> Ge	74		91.7			
As	75	99.929				
Se	77					
Se	82	100.041				
Kr	83					
Sr	88	106.679				
Y	89					
Mo	98	100.341				
Ag	107	105.448				
Cd	111	101.030				
Cd	114					
> In	115		93.7			
Sn	120	103.103				
Sb	121	101.916				
Sb	123					
Ba	135					
Ba	137	98.727				
Ho	165					
> Lu	175		94.9			
Tl	205	98.860				
Pb	208	105.418				
Bi	209					
Th	232	100.424				
U	238	103.898				

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	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 6
 Report Date/Time: Sunday, January 03, 2010 19:17:30
 Page 3

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, January 03, 2010 19:20:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 7.090

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.006	ug/L	66.051	81	0.000
Be	9	0.008	ug/L	70.833	18	0.000
B	11	1.552	ug/L	29.187	1312	0.001
Na	23	1.992	ug/L	152.464	25026	0.007
Mg	24	0.803	ug/L	92.991	4334	0.002
Al	27	1.104	ug/L	54.128	8669	0.004
P	31	-2.600	ug/L	21.882	5815	-0.001
K	39	-8.359	ug/L	38.557	536910	-0.034
Ca	43	3.412	ug/L	29.694	284	0.000
> Sc	45		ug/L		1304807	1304807.014
Ti	47	0.183	ug/L	36.811	455	0.000
V	51	-0.545	ug/L	47.834	6600	-0.003
Cr	52	0.014	ug/L	711.949	-1545	0.000
Cr	53		ug/L		109543	-0.027
Mn	55	-0.014	ug/L	32.547	945	-0.000
Fe	57	2.519	ug/L	32.013	5234	0.000
Co	59	0.003	ug/L	52.712	109	0.000
Ni	60	0.005	ug/L	85.369	73	0.000
Cu	63		ug/L		333	0.000
Cu	65	0.034	ug/L	30.774	184	0.000
Zn	66	0.023	ug/L	115.129	273	0.000
Zn	67		ug/L		14764	-0.006
Zn	68		ug/L		1487	-0.001
> Ge	74		ug/L		449717	449716.711
As	75	0.178	ug/L	96.277	-153	0.001
Se	77		ug/L		5756	-0.005
Se	82	0.080	ug/L	256.945	-15	0.000
Kr	83		ug/L		116	-0.000
Sr	88	0.002	ug/L	66.785	207	0.000
Y	89		ug/L		56	-0.000
Mo	98	0.105	ug/L	10.078	508	0.001
Ag	107	0.003	ug/L	40.439	66	0.000
Cd	111	0.001	ug/L	378.937	30	0.000
Cd	114		ug/L		54	0.000
> In	115		ug/L		287909	287909.480
Sn	120	0.103	ug/L	12.941	1101	0.003
Sb	121	0.209	ug/L	22.901	1719	0.005
Sb	123		ug/L		1365	0.004
Ba	135		ug/L		32	-0.000
Ba	137	0.001	ug/L	312.535	48	0.000
Ho	165		ug/L		29	0.000
> Lu	175		ug/L		584730	584729.624
Tl	205	0.277	ug/L	27.681	11264	0.013
Pb	208	0.002	ug/L	44.343	488	0.000
Bi	209		ug/L		159	-0.000
Th	232	0.061	ug/L	24.946	3970	0.005
U	238	0.006	ug/L	37.030	694	0.001

Sample ID: QC Std 7

Report Date/Time: Sunday, January 03, 2010 19:23:39

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	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	0.9999
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		95.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.4			
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

ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Sunday, January 03, 2010 19:27:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 10.091

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1008.878	ug/L	1.946	1763818	1.496
Be	9	999.986	ug/L	0.492	403593	0.342
B	11	2.965	ug/L	5.180	1758	0.001
Na	23	46678.072	ug/L	2.799	184365307	156.328
Mg	24	46500.492	ug/L	5.839	130223886	110.420
Al	27	50879.841	ug/L	10.844	194609858	164.905
P	31	23565.498	ug/L	2.409	5765692	4.885
K	39	53994.367	ug/L	2.934	261598604	221.390
Ca	43	48003.310	ug/L	1.866	574376	0.487
> Sc	45		ug/L		1178971	1178970.607
Ti	47	41.961	ug/L	1.230	26378	0.022
V	51	918.855	ug/L	1.950	6229724	5.275
Cr	52	920.759	ug/L	1.378	4870295	4.132
Cr	53		ug/L		691480	0.475
Mn	55	947.277	ug/L	2.665	7968191	6.756
Fe	57	51182.266	ug/L	0.915	8040690	6.816
Co	59	893.775	ug/L	1.907	5811093	4.929
Ni	60	872.147	ug/L	1.798	1263313	1.072
Cu	63		ug/L		3066182	2.600
Cu	65	845.113	ug/L	0.144	1425053	1.209
Zn	66	2371.550	ug/L	2.599	2803780	6.988
Zn	67		ug/L		437316	1.051
Zn	68		ug/L		1757684	4.377
> Ge	74		ug/L		401209	401208.508
As	75	871.916	ug/L	1.668	1047719	2.612
Se	77		ug/L		47549	0.101
Se	82	468.514	ug/L	0.610	55366	0.138
Kr	83		ug/L		173	0.000
Sr	88	1007.708	ug/L	2.442	13172564	52.642
Y	89		ug/L		523	0.002
Mo	98	1042.186	ug/L	3.333	3588073	14.340
Ag	107	232.828	ug/L	1.470	1350120	5.395
Cd	111	902.667	ug/L	1.819	1336828	5.342
Cd	114		ug/L		3440439	13.749
> In	115		ug/L		250243	250243.237
Sn	120	1004.863	ug/L	3.352	6185048	24.718
Sb	121	242.494	ug/L	1.075	1317427	5.263
Sb	123		ug/L		1069281	4.272
Ba	135		ug/L		1457002	2.666
Ba	137	920.422	ug/L	4.582	2828781	5.178
Ho	165		ug/L		468	0.001
> Lu	175		ug/L		546805	546805.380
Tl	205	472.269	ug/L	5.164	11678358	21.373
Pb	208	4851.901	ug/L	3.691	186539735	341.391
Bi	209		ug/L		5282	0.009
Th	232	2507.477	ug/L	5.055	118329973	216.621
U	238	5246.491	ug/L	4.336	272126377	498.100

Sample ID: QC Std 10

Report Date/Time: Sunday, January 03, 2010 19:29:43

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	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	0.9999
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	100.888					
Be	9	99.999					
B	11						
Na	23	93.356					
Mg	24	93.001					
Al	27	101.760					
P	31	94.262					
K	39	107.989					
Ca	43	96.007					
> Sc	45		83.4				
Ti	47						
V	51	91.886					
Cr	52	92.076					
Cr	53						
Mn	55	94.728					
Fe	57	102.365					
Co	59	89.378					
Ni	60	87.215					
Cu	63						
Cu	65	84.511					
Zn	66	94.862					
Zn	67						
Zn	68						
> Ge	74		85.4				
As	75	87.192					
Se	77						
Se	82	93.703					
Kr	83						
Sr	88	100.771					
Y	89						
Mo	98	104.219					
Ag	107	93.131					
Cd	111	90.267					
Cd	114						
> In	115		84.5				
Sn	120	100.486					
Sb	121	96.998					
Sb	123						
Ba	135						
Ba	137	92.042					
Ho	165						
> Lu	175		91.1				
Tl	205	94.454					
Pb	208	97.038					
Bi	209						
Th	232	100.299					
U	238	104.930					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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	As	75LRS	is out of limits (+/- 10%)

Sample ID: QC Std 10

Report Date/Time: Sunday, January 03, 2010 19:29:43

Page 3

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Sunday, January 03, 2010 19:33:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 11.092

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.429	ug/L	1.685	102753	0.078
Be	9	51.229	ug/L	2.920	23171	0.018
B	11	95.771	ug/L	3.007	44115	0.033
Na	23	5051.660	ug/L	8.398	22372797	16.918
Mg	24	5061.080	ug/L	5.453	15867543	12.018
Al	27	5075.141	ug/L	11.970	21707699	16.449
P	31	4285.774	ug/L	1.443	1179850	0.888
K	39	5098.055	ug/L	3.404	28196257	20.903
Ca	43	4895.788	ug/L	1.289	65849	0.050
> Sc	45		ug/L		1320724	1320724.024
Ti	47	48.690	ug/L	3.124	34224	0.026
V	51	49.840	ug/L	2.578	388635	0.286
Cr	52	50.845	ug/L	2.735	299628	0.228
Cr	53		ug/L		140716	-0.005
Mn	55	52.478	ug/L	2.726	495305	0.374
Fe	57	5390.262	ug/L	1.552	952790	0.718
Co	59	51.854	ug/L	1.390	377695	0.286
Ni	60	52.023	ug/L	1.403	84481	0.064
Cu	63		ug/L		198327	0.150
Cu	65	51.528	ug/L	3.166	97426	0.074
Zn	66	51.797	ug/L	1.830	68299	0.153
Zn	67		ug/L		27032	0.021
Zn	68		ug/L		51602	0.111
> Ge	74		ug/L		446010	446009.871
As	75	49.551	ug/L	2.610	65809	0.148
Se	77		ug/L		9762	0.004
Se	82	49.148	ug/L	1.481	6434	0.014
Kr	83		ug/L		115	-0.000
Sr	88	53.505	ug/L	3.063	792069	2.795
Y	89		ug/L		100	0.000
Mo	98	50.517	ug/L	3.359	197002	0.695
Ag	107	51.807	ug/L	3.409	340138	1.200
Cd	111	50.879	ug/L	2.461	85347	0.301
Cd	114		ug/L		201679	0.712
> In	115		ug/L		283445	283444.816
Sn	120	53.477	ug/L	3.609	373009	1.315
Sb	121	51.910	ug/L	2.742	319654	1.127
Sb	123		ug/L		251869	0.888
Ba	135		ug/L		91928	0.159
Ba	137	49.595	ug/L	2.194	161755	0.279
Ho	165		ug/L		67	0.000
> Lu	175		ug/L		579745	579745.045
Tl	205	51.059	ug/L	1.222	1343334	2.311
Pb	208	53.188	ug/L	1.071	2169777	3.742
Bi	209		ug/L		588	0.001
Th	232	51.502	ug/L	1.659	2579873	4.449
U	238	53.261	ug/L	2.037	2931595	5.057

Sample ID: QC Std 11

Report Date/Time: Sunday, January 03, 2010 19:35:49

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	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	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	0.9999
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	104.857				
Be	9	102.457				
B	11	95.771				
Na	23	101.033				
Mg	24	101.222				
Al	27	100.498				
P	31	85.715				
K	39	101.961				
Ca	43	97.916				
> Sc	45		93.5			
Ti	47	97.380				
V	51	99.679				
Cr	52	101.691				
Cr	53					
Mn	55	104.956				
Fe	57	107.805				
Co	59	103.709				
Ni	60	104.046				
Cu	63					
Cu	65	103.056				
Zn	66	103.595				
Zn	67					
Zn	68					
> Ge	74		94.9			
As	75	99.102				
Se	77					
Se	82	98.295				
Kr	83					
Sr	88	107.010				
Y	89					
Mo	98	101.033				
Ag	107	103.613				
Cd	111	101.759				
Cd	114					
> In	115		95.7			
Sn	120	106.953				
Sb	121	103.820				
Sb	123					
Ba	135					
Ba	137	99.190				
Ho	165					
> Lu	175		96.6			
Tl	205	102.118				
Pb	208	106.375				
Bi	209					
Th	232	103.004				
U	238	106.523				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	P		31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Sunday, January 03, 2010 19:39:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 12.093

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.070	ug/L	6.993	208	0.000
Be	9	0.020	ug/L	13.592	24	0.000
B	11	1.674	ug/L	27.980	1394	0.001
Na	23	1.549	ug/L	79.367	23687	0.005
Mg	24	-0.069	ug/L	527.938	1667	-0.000
Al	27	0.362	ug/L	94.181	5668	0.001
P	31	-2.503	ug/L	86.431	5962	-0.001
K	39	-4.721	ug/L	102.570	568431	-0.019
Ca	43	3.450	ug/L	25.468	291	0.000
> Sc	45		ug/L		1333740	1333740.396
Ti	47	-0.021	ug/L	35.487	321	-0.000
V	51	-0.538	ug/L	46.099	6824	-0.003
Cr	52	0.150	ug/L	73.372	-758	0.001
Cr	53		ug/L		109912	-0.029
Mn	55	-0.009	ug/L	77.765	1012	-0.000
Fe	57	0.448	ug/L	274.202	4980	0.000
Co	59	0.010	ug/L	12.669	161	0.000
Ni	60	0.014	ug/L	37.410	89	0.000
Cu	63		ug/L		468	0.000
Cu	65	0.061	ug/L	12.438	240	0.000
Zn	66	0.019	ug/L	61.688	268	0.000
Zn	67		ug/L		15454	-0.005
Zn	68		ug/L		1619	-0.001
> Ge	74		ug/L		451384	451383.714
As	75	0.336	ug/L	118.470	60	0.001
Se	77		ug/L		5436	-0.006
Se	82	0.194	ug/L	44.783	0	0.000
Kr	83		ug/L		102	-0.000
Sr	88	0.008	ug/L	43.683	291	0.000
Y	89		ug/L		58	-0.000
Mo	98	0.128	ug/L	6.190	593	0.002
Ag	107	0.006	ug/L	24.054	86	0.000
Cd	111	0.003	ug/L	244.666	33	0.000
Cd	114		ug/L		62	0.000
> In	115		ug/L		285603	285602.840
Sn	120	0.588	ug/L	8.555	4496	0.014
Sb	121	0.443	ug/L	16.035	3147	0.010
Sb	123		ug/L		2466	0.008
Ba	135		ug/L		48	0.000
Ba	137	0.007	ug/L	28.070	67	0.000
Ho	165		ug/L		34	0.000
> Lu	175		ug/L		578086	578085.887
Tl	205	0.768	ug/L	13.189	23981	0.035
Pb	208	0.038	ug/L	8.593	1946	0.003
Bi	209		ug/L		167	-0.000
Th	232	0.124	ug/L	10.019	7063	0.011
U	238	0.064	ug/L	7.285	3906	0.006

Sample ID: QC Std 12

Report Date/Time: Sunday, January 03, 2010 19:41:58

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	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	0.9999
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		94.4			
|	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		96.1			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		96.5			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
|>	Lu	175		96.3			
|	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: Sunday, January 03, 2010 19:41:58

Page 3

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Sunday, January 03, 2010 20:28:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.101

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.670	ug/L	0.737	101667	0.078
Be	9	50.250	ug/L	3.242	22384	0.017
B	11	94.622	ug/L	4.485	42932	0.033
Na	23	4427.060	ug/L	12.804	19281819	14.826
Mg	24	4708.241	ug/L	5.071	14540154	11.180
Al	27	4932.106	ug/L	11.662	20784226	15.985
P	31	4238.786	ug/L	2.140	1149492	0.879
K	39	5178.946	ug/L	4.090	28196257	21.235
Ca	43	4822.867	ug/L	0.541	63887	0.049
> Sc	45		ug/L		1300735	1300735.320
Ti	47	48.148	ug/L	2.935	33334	0.025
V	51	48.369	ug/L	2.222	371788	0.278
Cr	52	49.853	ug/L	1.582	289330	0.224
Cr	53		ug/L		159996	0.012
Mn	55	51.506	ug/L	3.250	478758	0.367
Fe	57	5292.430	ug/L	2.742	921320	0.705
Co	59	51.108	ug/L	1.529	366635	0.282
Ni	60	51.520	ug/L	0.577	82404	0.063
Cu	63		ug/L		194698	0.149
Cu	65	51.159	ug/L	1.480	95280	0.073
Zn	66	50.544	ug/L	0.662	65792	0.149
Zn	67		ug/L		28696	0.026
Zn	68		ug/L		50178	0.110
> Ge	74		ug/L		440168	440168.049
As	75	49.090	ug/L	1.826	64347	0.147
Se	77		ug/L		11316	0.008
Se	82	49.719	ug/L	1.214	6424	0.015
Kr	83		ug/L		126	0.000
Sr	88	52.147	ug/L	1.830	769974	2.724
Y	89		ug/L		101	0.000
Mo	98	48.666	ug/L	2.240	189289	0.670
Ag	107	50.876	ug/L	1.477	333188	1.179
Cd	111	49.400	ug/L	1.701	82643	0.292
Cd	114		ug/L		196317	0.695
> In	115		ug/L		282619	282618.804
Sn	120	50.832	ug/L	2.231	353658	1.250
Sb	121	49.895	ug/L	2.718	306388	1.083
Sb	123		ug/L		240929	0.851
Ba	135		ug/L		90765	0.158
Ba	137	49.355	ug/L	0.700	159761	0.278
Ho	165		ug/L		60	0.000
> Lu	175		ug/L		575258	575258.206
Tl	205	47.160	ug/L	2.325	1231526	2.134
Pb	208	52.532	ug/L	0.244	2126706	3.696
Bi	209		ug/L		588	0.001
Th	232	49.757	ug/L	1.379	2473491	4.298
U	238	51.452	ug/L	1.604	2810427	4.885

Sample ID: QC Std 8

Report Date/Time: Sunday, January 03, 2010 20:31:06

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	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	0.9999
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	105.341				
Be	9	100.501				
B	11	94.622				
Na	23	88.541				
Mg	24	94.165				
Al	27	97.665				
P	31	84.776				
K	39	103.579				
Ca	43	96.457				
> Sc	45		92.0			
Ti	47	96.296				
V	51	96.738				
Cr	52	99.706				
Cr	53					
Mn	55	103.011				
Fe	57	105.849				
Co	59	102.215				
Ni	60	103.040				
Cu	63					
Cu	65	102.319				
Zn	66	101.088				
Zn	67					
Zn	68					
> Ge	74		93.7			
As	75	98.180				
Se	77					
Se	82	99.437				
Kr	83					
Sr	88	104.295				
Y	89					
Mo	98	97.333				
Ag	107	101.752				
Cd	111	98.800				
Cd	114					
> In	115		95.5			
Sn	120	101.664				
Sb	121	99.789				
Sb	123					
Ba	135					
Ba	137	98.710				
Ho	165					
> Lu	175		95.8			
Tl	205	94.321				
Pb	208	105.064				
Bi	209					
Th	232	99.514				
U	238	102.905				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	P	31	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, January 03, 2010 20:34:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.102

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.010	ug/L	21.744	88	0.000
Be	9	0.007	ug/L	90.368	18	0.000
B	11	1.594	ug/L	30.197	1344	0.001
Na	23	0.417	ug/L	74.768	18345	0.001
Mg	24	0.041	ug/L	761.733	2000	0.000
Al	27	-0.166	ug/L	218.569	3334	-0.001
P	31	-0.922	ug/L	41.387	6335	-0.000
K	39	3.770	ug/L	157.760	608019	0.015
Ca	43	1.652	ug/L	159.116	263	0.000
> Sc	45		ug/L		1318709	1318709.122
Ti	47	0.000	ug/L	12106.485	333	0.000
V	51	-0.478	ug/L	128.807	7156	-0.003
Cr	52	0.079	ug/L	81.426	-1176	0.000
Cr	53		ug/L		122724	-0.018
Mn	55	-0.010	ug/L	36.403	987	-0.000
Fe	57	0.232	ug/L	215.254	4888	0.000
Co	59	0.004	ug/L	75.910	118	0.000
Ni	60	0.009	ug/L	34.619	81	0.000
Cu	63		ug/L		307	0.000
Cu	65	0.019	ug/L	29.039	158	0.000
Zn	66	0.005	ug/L	228.469	247	0.000
Zn	67		ug/L		16670	-0.002
Zn	68		ug/L		1759	-0.000
> Ge	74		ug/L		447928	447927.558
As	75	0.177	ug/L	146.213	-149	0.001
Se	77		ug/L		6302	-0.004
Se	82	0.089	ug/L	24.311	-14	0.000
Kr	83		ug/L		119	0.000
Sr	88	0.002	ug/L	7.979	215	0.000
Y	89		ug/L		59	-0.000
Mo	98	0.034	ug/L	23.951	227	0.000
Ag	107	0.003	ug/L	42.589	70	0.000
Cd	111	0.001	ug/L	336.940	30	0.000
Cd	114		ug/L		38	0.000
> In	115		ug/L		288959	288958.682
Sn	120	0.095	ug/L	27.461	1045	0.002
Sb	121	0.233	ug/L	26.012	1868	0.005
Sb	123		ug/L		1499	0.004
Ba	135		ug/L		34	-0.000
Ba	137	0.004	ug/L	54.356	56	0.000
Ho	165		ug/L		29	0.000
> Lu	175		ug/L		586067	586066.777
Tl	205	0.882	ug/L	17.428	27328	0.040
Pb	208	0.006	ug/L	25.653	619	0.000
Bi	209		ug/L		163	-0.000
Th	232	0.058	ug/L	20.216	3815	0.005
U	238	0.009	ug/L	21.474	847	0.001

Sample ID: QC Std 9

Report Date/Time: Sunday, January 03, 2010 20:37:16

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	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	0.9999
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		93.3			
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		95.3			
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.6			
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.6			
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: 1202006053

Sample Date/Time: Sunday, January 03, 2010 20:40:41

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 937496|1|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\1202006053.103

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.048	ug/L	2.988	162	0.000
Be	9	0.007	ug/L	90.254	18	0.000
B	11	0.616	ug/L	10.844	894	0.000
Na	23	8.479	ug/L	20.557	53434	0.028
Mg	24	0.693	ug/L	46.002	4001	0.002
Al	27	0.633	ug/L	122.127	6668	0.002
P	31	-1.134	ug/L	73.138	6222	-0.000
K	39	9.373	ug/L	29.057	633068	0.038
Ca	43	19.327	ug/L	13.051	495	0.000
> Sc	45		ug/L		1307207	1307206.685
Ti	47	0.373	ug/L	5.699	587	0.000
V	51	-2.568	ug/L	20.737	-8589	-0.015
Cr	52	-1.258	ug/L	24.705	-8994	-0.006
Cr	53		ug/L		313134	0.128
Mn	55	0.138	ug/L	10.821	2355	0.001
Fe	57	1.313	ug/L	53.157	5033	0.000
Co	59	0.001	ug/L	106.874	92	0.000
Ni	60	0.035	ug/L	16.406	120	0.000
Cu	63		ug/L		1114	0.001
Cu	65	0.237	ug/L	8.443	565	0.000
Zn	66	0.705	ug/L	1.074	1131	0.002
Zn	67		ug/L		67332	0.117
Zn	68		ug/L		4926	0.007
> Ge	74		ug/L		432510	432510.204
As	75	0.372	ug/L	134.240	101	0.001
Se	77		ug/L		17801	0.023
Se	82	0.090	ug/L	70.209	-13	0.000
Kr	83		ug/L		124	0.000
Sr	88	0.030	ug/L	3.314	602	0.002
Y	89		ug/L		65	0.000
Mo	98	0.008	ug/L	56.755	116	0.000
Ag	107	0.001	ug/L	154.090	52	0.000
Cd	111	-0.004	ug/L	91.445	20	-0.000
Cd	114		ug/L		20	-0.000
> In	115		ug/L		270912	270911.753
Sn	120	0.199	ug/L	20.830	1674	0.005
Sb	121	0.078	ug/L	24.065	846	0.002
Sb	123		ug/L		664	0.001
Ba	135		ug/L		53	0.000
Ba	137	0.011	ug/L	42.510	78	0.000
Ho	165		ug/L		25	0.000
> Lu	175		ug/L		567044	567043.755
Tl	205	0.283	ug/L	6.717	11078	0.013
Pb	208	0.001	ug/L	114.712	401	0.000
Bi	209		ug/L		114	-0.000
Th	232	0.037	ug/L	26.509	2697	0.003
U	238	-0.003	ug/L	5.227	205	-0.000

Sample ID: 1202006053

Report Date/Time: Sunday, January 03, 2010 20:43:26

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	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	0.9999
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		92.5			
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		92.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.4			
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

ICPMS#5 - Summary Report

Sample ID: 1202006054

Sample Date/Time: Sunday, January 03, 2010 20:46:52

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\1202006054.104

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.257	ug/L	1.495	99360	0.076
Be	9	51.859	ug/L	1.594	23201	0.018
B	11	95.546	ug/L	4.061	43527	0.033
Na	23	1674.569	ug/L	0.702	7341074	5.608
Mg	24	1850.520	ug/L	2.910	5740377	4.394
Al	27	2138.848	ug/L	6.254	9055507	6.932
P	31	1754.984	ug/L	4.095	481602	0.364
K	39	2121.429	ug/L	4.624	11941188	8.698
Ca	43	1960.488	ug/L	1.058	26219	0.020
> Sc	45		ug/L		1306069	1306069.417
Ti	47	43.087	ug/L	2.249	29992	0.023
V	51	42.983	ug/L	4.596	332924	0.247
Cr	52	47.395	ug/L	2.340	276113	0.213
Cr	53		ug/L		336609	0.146
Mn	55	49.708	ug/L	0.749	464098	0.355
Fe	57	2134.067	ug/L	0.593	375976	0.284
Co	59	49.446	ug/L	1.610	356179	0.273
Ni	60	49.836	ug/L	1.548	80041	0.061
Cu	63		ug/L		192594	0.147
Cu	65	50.465	ug/L	1.224	94387	0.072
Zn	66	56.870	ug/L	1.422	72771	0.168
Zn	67		ug/L		81665	0.150
Zn	68		ug/L		56444	0.126
> Ge	74		ug/L		432931	432931.046
As	75	48.874	ug/L	1.624	63018	0.146
Se	77		ug/L		21365	0.032
Se	82	50.039	ug/L	1.587	6358	0.015
Kr	83		ug/L		132	0.000
Sr	88	51.886	ug/L	1.649	745494	2.710
Y	89		ug/L		98	0.000
Mo	98	48.223	ug/L	2.478	182535	0.664
Ag	107	51.358	ug/L	3.887	327254	1.190
Cd	111	49.285	ug/L	2.147	80233	0.292
Cd	114		ug/L		190486	0.693
> In	115		ug/L		274989	274989.414
Sn	120	50.241	ug/L	1.103	340181	1.236
Sb	121	49.956	ug/L	1.690	298549	1.084
Sb	123		ug/L		234463	0.851
Ba	135		ug/L		88508	0.154
Ba	137	48.167	ug/L	2.678	155953	0.271
Ho	165		ug/L		67	0.000
> Lu	175		ug/L		575619	575619.407
Tl	205	45.432	ug/L	3.509	1186750	2.056
Pb	208	51.863	ug/L	2.659	2100120	3.649
Bi	209		ug/L		1624115	2.822
Th	232	48.111	ug/L	3.237	2392178	4.156
U	238	50.169	ug/L	1.653	2741455	4.763

Sample ID: 1202006054

Report Date/Time: Sunday, January 03, 2010 20:49:37

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	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	0.9999
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		92.4			
|	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		92.1			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		92.9			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		95.9			
|	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: 1202006055

Sample Date/Time: Sunday, January 03, 2010 21:05:29

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 937496|1|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\1202006055.107

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.201	ug/L	3.834	458	0.000
Be	9	0.003	ug/L	372.202	16	0.000
B	11	20.020	ug/L	4.269	9602	0.007
Na	23	190.746	ug/L	9.432	849645	0.639
Mg	24	17.410	ug/L	9.300	55776	0.041
Al	27	97.711	ug/L	10.191	417384	0.317
P	31	2.085	ug/L	56.307	7084	0.000
K	39	203.887	ug/L	1.812	1672871	0.836
Ca	43	92.400	ug/L	2.554	1463	0.001
> Sc	45		ug/L		1305189	1305188.667
Ti	47	2.289	ug/L	2.858	1903	0.001
V	51	-4.126	ug/L	28.863	-20256	-0.024
Cr	52	2.486	ug/L	9.885	12929	0.011
Cr	53		ug/L		402794	0.197
Mn	55	3.166	ug/L	2.238	30538	0.023
Fe	57	90.941	ug/L	1.542	20604	0.012
Co	59	0.079	ug/L	3.046	651	0.000
Ni	60	1.503	ug/L	2.271	2476	0.002
Cu	63		ug/L		4829	0.003
Cu	65	1.183	ug/L	2.271	2329	0.002
Zn	66	5.154	ug/L	1.573	6763	0.015
Zn	67		ug/L		71753	0.128
Zn	68		ug/L		9286	0.017
> Ge	74		ug/L		430170	430170.327
As	75	-0.233	ug/L	188.194	-670	-0.001
Se	77		ug/L		27503	0.046
Se	82	0.007	ug/L	1442.057	-23	0.000
Kr	83		ug/L		129	0.000
Sr	88	0.478	ug/L	0.929	6972	0.025
Y	89		ug/L		1506	0.005
Mo	98	0.087	ug/L	2.036	413	0.001
Ag	107	0.006	ug/L	27.903	81	0.000
Cd	111	0.003	ug/L	88.200	31	0.000
Cd	114		ug/L		46	0.000
> In	115		ug/L		272272	272271.934
Sn	120	0.502	ug/L	1.829	3714	0.012
Sb	121	0.013	ug/L	10.139	467	0.000
Sb	123		ug/L		369	0.000
Ba	135		ug/L		4028	0.007
Ba	137	2.203	ug/L	1.691	7097	0.012
Ho	165		ug/L		141	0.000
> Lu	175		ug/L		569038	569038.137
Tl	205	0.212	ug/L	7.834	9281	0.010
Pb	208	0.181	ug/L	0.777	7621	0.013
Bi	209		ug/L		443	0.000
Th	232	0.032	ug/L	3.276	2426	0.003
U	238	0.006	ug/L	2.526	703	0.001

Sample ID: 1202006055

Report Date/Time: Sunday, January 03, 2010 21:08:15

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	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	0.9999
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		92.4			
|	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		91.6			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		92.0			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		94.8			
|	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

Sample ID: 1202006055

Report Date/Time: Sunday, January 03, 2010 21:08:15

Page 3

ICPMS#5 - Summary Report

Sample ID: 1202006056

Sample Date/Time: Sunday, January 03, 2010 21:11:40

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 937496|1|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\1202006056.108

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.055	ug/L	1.216	100161	0.076
Be	9	51.597	ug/L	2.412	23365	0.018
B	11	114.857	ug/L	2.740	52844	0.040
Na	23	2029.581	ug/L	6.099	9004841	6.797
Mg	24	1873.785	ug/L	3.197	5883013	4.449
Al	27	2072.312	ug/L	6.068	8882356	6.717
P	31	1732.758	ug/L	2.495	481439	0.359
K	39	2218.165	ug/L	2.362	12611216	9.095
Ca	43	2055.231	ug/L	1.693	27807	0.021
> Sc	45		ug/L		1321971	1321970.935
Ti	47	45.646	ug/L	0.882	32143	0.024
V	51	43.021	ug/L	3.233	337294	0.247
Cr	52	53.888	ug/L	0.162	318024	0.242
Cr	53		ug/L		376095	0.173
Mn	55	52.326	ug/L	0.632	494432	0.373
Fe	57	2297.114	ug/L	2.594	409245	0.306
Co	59	50.901	ug/L	1.685	371152	0.281
Ni	60	51.735	ug/L	1.226	84098	0.064
Cu	63		ug/L		200816	0.152
Cu	65	51.912	ug/L	1.777	98261	0.074
Zn	66	54.777	ug/L	1.037	69610	0.161
Zn	67		ug/L		82229	0.152
Zn	68		ug/L		54351	0.122
> Ge	74		ug/L		429866	429865.861
As	75	78.035	ug/L	1.841	100125	0.234
Se	77		ug/L		23964	0.038
Se	82	20.173	ug/L	0.683	2531	0.006
Kr	83		ug/L		139	0.000
Sr	88	53.817	ug/L	2.186	755157	2.811
Y	89		ug/L		1578	0.006
Mo	98	51.045	ug/L	2.536	188678	0.702
Ag	107	53.085	ug/L	1.154	330428	1.230
Cd	111	10.714	ug/L	3.428	17052	0.063
Cd	114		ug/L		38025	0.141
> In	115		ug/L		268601	268600.611
Sn	120	52.531	ug/L	2.387	347358	1.292
Sb	121	194.860	ug/L	2.518	1136105	4.230
Sb	123		ug/L		916344	3.411
Ba	135		ug/L		94113	0.165
Ba	137	52.109	ug/L	1.156	167260	0.293
Ho	165		ug/L		442	0.001
> Lu	175		ug/L		570457	570456.862
Tl	205	83.355	ug/L	7.452	2154625	3.772
Pb	208	42.998	ug/L	1.579	1726067	3.025
Bi	209		ug/L		764	0.001
Th	232	48.365	ug/L	3.827	2383749	4.178
U	238	50.239	ug/L	0.791	2721112	4.770

Sample ID: 1202006056

Report Date/Time: Sunday, January 03, 2010 21:14:24

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	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	0.9999
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		93.5				
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		91.5				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Mo	98						
Ag	107						
Cd	111						
Cd	114						
> In	115		90.7				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		95.0				
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

Sample ID: 1202006056

Report Date/Time: Sunday, January 03, 2010 21:14:24

Page 3

ICPMS#5 - Summary Report

Sample ID: 1202006057

Sample Date/Time: Sunday, January 03, 2010 21:17:49

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 937496|5|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\1202006057.109

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.038	ug/L	12.060	141	0.000
Be	9	0.006	ug/L	219.801	17	0.000
B	11	5.135	ug/L	6.750	2919	0.002
Na	23	37.324	ug/L	14.068	179467	0.125
Mg	24	3.393	ug/L	24.913	12339	0.008
Al	27	19.063	ug/L	11.097	84585	0.062
P	31	0.349	ug/L	509.733	6611	0.000
K	39	31.436	ug/L	5.093	749496	0.129
Ca	43	23.271	ug/L	3.472	547	0.000
> Sc	45		ug/L		1304185	1304185.338
Ti	47	0.433	ug/L	11.345	627	0.000
V	51	-0.468	ug/L	151.264	7176	-0.003
Cr	52	1.110	ug/L	15.953	4869	0.005
Cr	53		ug/L		210670	0.050
Mn	55	0.513	ug/L	4.457	5842	0.004
Fe	57	14.768	ug/L	4.412	7359	0.002
Co	59	0.016	ug/L	10.424	203	0.000
Ni	60	0.348	ug/L	2.928	623	0.000
Cu	63		ug/L		1288	0.001
Cu	65	0.236	ug/L	3.730	562	0.000
Zn	66	0.993	ug/L	1.358	1492	0.003
Zn	67		ug/L		26013	0.021
Zn	68		ug/L		3294	0.003
> Ge	74		ug/L		430966	430966.039
As	75	-0.151	ug/L	170.342	-569	-0.000
Se	77		ug/L		13274	0.013
Se	82	0.045	ug/L	203.679	-19	0.000
Kr	83		ug/L		112	-0.000
Sr	88	0.090	ug/L	1.512	1483	0.005
Y	89		ug/L		327	0.001
Mo	98	0.029	ug/L	16.896	199	0.000
Ag	107	0.001	ug/L	88.956	50	0.000
Cd	111	-0.005	ug/L	72.170	19	-0.000
Cd	114		ug/L		31	-0.000
> In	115		ug/L		276877	276877.172
Sn	120	0.109	ug/L	4.689	1095	0.003
Sb	121	0.199	ug/L	24.204	1591	0.004
Sb	123		ug/L		1233	0.003
Ba	135		ug/L		809	0.001
Ba	137	0.420	ug/L	0.490	1401	0.002
Ho	165		ug/L		51	0.000
> Lu	175		ug/L		574759	574758.576
Tl	205	2.426	ug/L	18.109	66993	0.110
Pb	208	0.035	ug/L	3.378	1814	0.002
Bi	209		ug/L		182	0.000
Th	232	0.027	ug/L	29.857	2223	0.002
U	238	0.000	ug/L	825.719	370	0.000

Sample ID: 1202006057

Report Date/Time: Sunday, January 03, 2010 21:20:34

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	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	0.9999
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		91.7			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		93.5			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		95.7			
|	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

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Sunday, January 03, 2010 21:23:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.110

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	54.665	ug/L	1.381	100954	0.081
Be	9	52.535	ug/L	0.970	22396	0.018
B	11	94.494	ug/L	1.624	41035	0.032
Na	23	4257.176	ug/L	2.453	17765242	14.258
Mg	24	4503.960	ug/L	2.983	13311736	10.695
Al	27	4558.806	ug/L	3.094	18387448	14.775
P	31	4195.219	ug/L	2.290	1088361	0.870
K	39	5304.701	ug/L	9.661	27608835	21.751
Ca	43	4897.980	ug/L	0.832	62082	0.050
> Sc	45		ug/L		1244614	1244614.189
Ti	47	48.215	ug/L	3.326	31939	0.025
V	51	49.408	ug/L	3.595	363118	0.284
Cr	52	50.429	ug/L	3.166	280002	0.226
Cr	53		ug/L		153052	0.012
Mn	55	52.270	ug/L	1.606	464939	0.373
Fe	57	5334.489	ug/L	1.231	888640	0.710
Co	59	51.244	ug/L	3.314	351653	0.283
Ni	60	51.724	ug/L	1.370	79153	0.064
Cu	63		ug/L		186718	0.150
Cu	65	50.776	ug/L	1.495	90482	0.073
Zn	66	49.853	ug/L	2.299	63023	0.147
Zn	67		ug/L		26746	0.023
Zn	68		ug/L		47839	0.107
> Ge	74		ug/L		427627	427627.258
As	75	48.099	ug/L	2.876	61227	0.144
Se	77		ug/L		11011	0.008
Se	82	50.287	ug/L	2.739	6310	0.015
Kr	83		ug/L		115	0.000
Sr	88	50.957	ug/L	2.579	736671	2.662
Y	89		ug/L		102	0.000
Mo	98	48.727	ug/L	2.482	185592	0.670
Ag	107	50.665	ug/L	2.811	324867	1.174
Cd	111	49.460	ug/L	1.444	81026	0.293
Cd	114		ug/L		190133	0.687
> In	115		ug/L		276732	276732.281
Sn	120	50.904	ug/L	1.012	346837	1.252
Sb	121	50.169	ug/L	1.654	301706	1.089
Sb	123		ug/L		236649	0.854
Ba	135		ug/L		87019	0.151
Ba	137	48.107	ug/L	4.467	156099	0.271
Ho	165		ug/L		55	0.000
> Lu	175		ug/L		577038	577037.634
Tl	205	46.438	ug/L	1.708	1216637	2.102
Pb	208	51.376	ug/L	3.019	2085400	3.615
Bi	209		ug/L		590	0.001
Th	232	47.973	ug/L	1.204	2391951	4.144
U	238	49.553	ug/L	2.259	2714178	4.705

Sample ID: QC Std 8

Report Date/Time: Sunday, January 03, 2010 21:26:40

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	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	0.9999
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	109.329				
Be	9	105.069				
B	11	94.494				
Na	23	85.144				
Mg	24	90.079				
Al	27	90.273				
P	31	83.904				
K	39	106.094				
Ca	43	97.960				
> Sc	45		88.1			
Ti	47	96.429				
V	51	98.816				
Cr	52	100.858				
Cr	53					
Mn	55	104.540				
Fe	57	106.690				
Co	59	102.487				
Ni	60	103.449				
Cu	63					
Cu	65	101.553				
Zn	66	99.705				
Zn	67					
Zn	68					
> Ge	74		91.0			
As	75	96.198				
Se	77					
Se	82	100.575				
Kr	83					
Sr	88	101.914				
Y	89					
Mo	98	97.453				
Ag	107	101.331				
Cd	111	98.920				
Cd	114					
> In	115		93.5			
Sn	120	101.809				
Sb	121	100.338				
Sb	123					
Ba	135					
Ba	137	96.213				
Ho	165					
> Lu	175		96.1			
Tl	205	92.875				
Pb	208	102.752				
Bi	209					
Th	232	95.947				
U	238	99.107				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	P	31	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 8
Report Date/Time: Sunday, January 03, 2010 21:26:40
Page 3

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, January 03, 2010 21:30:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.111

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.016	ug/L	23.410	95	0.000
Be	9	0.014	ug/L	52.113	20	0.000
B	11	1.768	ug/L	28.999	1351	0.001
Na	23	-0.459	ug/L	265.514	13674	-0.002
Mg	24	0.072	ug/L	454.137	2000	0.000
Al	27	0.282	ug/L	80.735	5001	0.001
P	31	-2.025	ug/L	38.093	5734	-0.000
K	39	2.514	ug/L	175.414	571551	0.010
Ca	43	5.940	ug/L	34.093	305	0.000
> Sc	45		ug/L		1253674	1253673.646
Ti	47	0.004	ug/L	1299.825	318	0.000
V	51	-0.637	ug/L	43.352	5681	-0.004
Cr	52	0.203	ug/L	50.599	-414	0.001
Cr	53		ug/L		118805	-0.016
Mn	55	-0.003	ug/L	127.834	1000	-0.000
Fe	57	1.129	ug/L	107.817	4797	0.000
Co	59	0.003	ug/L	48.107	103	0.000
Ni	60	0.008	ug/L	43.015	75	0.000
Cu	63		ug/L		289	0.000
Cu	65	0.013	ug/L	40.702	140	0.000
Zn	66	0.005	ug/L	178.604	235	0.000
Zn	67		ug/L		15712	-0.002
Zn	68		ug/L		1678	-0.000
> Ge	74		ug/L		424110	424109.894
As	75	0.430	ug/L	54.783	176	0.001
Se	77		ug/L		6302	-0.003
Se	82	0.159	ug/L	63.663	-4	0.000
Kr	83		ug/L		108	-0.000
Sr	88	0.003	ug/L	41.577	224	0.000
Y	89		ug/L		61	0.000
Mo	98	0.034	ug/L	35.500	216	0.000
Ag	107	0.004	ug/L	26.396	69	0.000
Cd	111	0.002	ug/L	181.181	30	0.000
Cd	114		ug/L		46	0.000
> In	115		ug/L		275832	275831.809
Sn	120	0.099	ug/L	22.306	1031	0.002
Sb	121	0.256	ug/L	19.824	1927	0.006
Sb	123		ug/L		1516	0.004
Ba	135		ug/L		40	0.000
Ba	137	0.002	ug/L	39.977	50	0.000
Ho	165		ug/L		31	0.000
> Lu	175		ug/L		569539	569539.123
Tl	205	1.475	ug/L	13.084	41819	0.067
Pb	208	0.006	ug/L	21.923	628	0.000
Bi	209		ug/L		163	-0.000
Th	232	0.058	ug/L	23.302	3724	0.005
U	238	0.009	ug/L	17.821	860	0.001

Sample ID: QC Std 9

Report Date/Time: Sunday, January 03, 2010 21:32:49

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	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	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	0.9999
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		88.7			
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		90.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Ti	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 243627001

Sample Date/Time: Sunday, January 03, 2010 21:42:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\243627001.113

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.139	ug/L	2.828	333	0.000
Be	9	0.010	ug/L	21.866	19	0.000
B	11	18.808	ug/L	1.388	8939	0.006
Na	23	70.424	ug/L	3.335	319877	0.236
Mg	24	6.272	ug/L	42.549	21017	0.015
Al	27	28.488	ug/L	6.805	122861	0.092
P	31	0.488	ug/L	181.034	6565	0.000
K	39	141.434	ug/L	4.801	1321079	0.580
Ca	43	44.201	ug/L	4.313	813	0.000
> Sc	45		ug/L		1287989	1287989.011
Ti	47	1.149	ug/L	6.383	1105	0.001
V	51	-6.171	ug/L	9.345	-35083	-0.035
Cr	52	0.348	ug/L	14.964	408	0.002
Cr	53		ug/L		400714	0.200
Mn	55	1.194	ug/L	2.622	12028	0.009
Fe	57	24.282	ug/L	4.078	8899	0.003
Co	59	0.019	ug/L	1.642	218	0.000
Ni	60	0.144	ug/L	4.763	292	0.000
Cu	63		ug/L		4276	0.003
Cu	65	1.084	ug/L	2.682	2117	0.002
Zn	66	1.494	ug/L	2.839	2111	0.004
Zn	67		ug/L		69383	0.123
Zn	68		ug/L		5690	0.009
> Ge	74		ug/L		427360	427359.712
As	75	-0.567	ug/L	41.975	-1099	-0.002
Se	77		ug/L		27720	0.047
Se	82	0.205	ug/L	37.896	1	0.000
Kr	83		ug/L		99	-0.000
Sr	88	0.176	ug/L	1.281	2623	0.009
Y	89		ug/L		573	0.002
Mo	98	0.019	ug/L	21.847	155	0.000
Ag	107	0.002	ug/L	39.915	58	0.000
Cd	111	0.010	ug/L	68.163	42	0.000
Cd	114		ug/L		43	0.000
> In	115		ug/L		267523	267522.527
Sn	120	0.633	ug/L	2.431	4506	0.016
Sb	121	0.022	ug/L	27.347	510	0.000
Sb	123		ug/L		399	0.000
Ba	135		ug/L		1435	0.002
Ba	137	0.779	ug/L	1.526	2514	0.004
Ho	165		ug/L		73	0.000
> Lu	175		ug/L		563618	563617.822
Tl	205	0.388	ug/L	0.967	13692	0.018
Pb	208	0.109	ug/L	0.468	4701	0.008
Bi	209		ug/L		129	-0.000
Th	232	0.019	ug/L	10.266	1762	0.002
U	238	0.002	ug/L	43.934	444	0.000

Sample ID: 243627001

Report Date/Time: Sunday, January 03, 2010 21:45:12

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	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	0.9999
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		91.1			
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		91.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		90.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.9			
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: Sunday, January 03, 2010 22:07:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.117

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	55.419	ug/L	3.019	98446	0.082
Be	9	52.258	ug/L	4.036	21427	0.018
B	11	95.508	ug/L	1.997	39893	0.033
Na	23	4325.369	ug/L	6.997	17342072	14.486
Mg	24	4923.343	ug/L	7.803	13995807	11.691
Al	27	4724.130	ug/L	5.708	18326693	15.311
P	31	4185.519	ug/L	2.490	1044661	0.868
K	39	5087.719	ug/L	4.500	25503906	20.861
Ca	43	4797.898	ug/L	1.326	58508	0.049
> Sc	45		ug/L		1197621	1197620.585
Ti	47	48.699	ug/L	3.151	31031	0.026
V	51	48.760	ug/L	2.593	344916	0.280
Cr	52	50.321	ug/L	2.733	268808	0.226
Cr	53		ug/L		157816	0.021
Mn	55	52.855	ug/L	2.380	452311	0.377
Fe	57	5487.318	ug/L	3.882	878973	0.731
Co	59	51.772	ug/L	3.556	341767	0.285
Ni	60	52.052	ug/L	3.068	76617	0.064
Cu	63		ug/L		179746	0.150
Cu	65	51.784	ug/L	3.321	88758	0.074
Zn	66	50.012	ug/L	3.155	60993	0.147
Zn	67		ug/L		26819	0.026
Zn	68		ug/L		46184	0.108
> Ge	74		ug/L		412649	412648.596
As	75	48.464	ug/L	4.095	59535	0.145
Se	77		ug/L		11238	0.009
Se	82	49.500	ug/L	1.785	5994	0.015
Kr	83		ug/L		113	0.000
Sr	88	51.570	ug/L	0.825	714338	2.694
Y	89		ug/L		91	0.000
Mo	98	49.347	ug/L	1.084	180063	0.679
Ag	107	51.438	ug/L	1.404	316002	1.192
Cd	111	50.116	ug/L	2.015	78645	0.297
Cd	114		ug/L		185052	0.698
> In	115		ug/L		265094	265094.180
Sn	120	51.485	ug/L	1.744	336028	1.266
Sb	121	50.694	ug/L	0.278	292063	1.100
Sb	123		ug/L		229292	0.864
Ba	135		ug/L		86251	0.154
Ba	137	48.026	ug/L	3.423	150998	0.270
Ho	165		ug/L		53	0.000
> Lu	175		ug/L		559101	559100.530
Tl	205	42.261	ug/L	3.869	1073202	1.913
Pb	208	52.262	ug/L	2.772	2055289	3.677
Bi	209		ug/L		607	0.001
Th	232	49.361	ug/L	2.558	2384101	4.264
U	238	50.312	ug/L	3.414	2669300	4.777

Sample ID: QC Std 8

Report Date/Time: Sunday, January 03, 2010 22:09:59

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	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	0.9999
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 %	DiDuplicate	Rel. % Difference
Li	7	110.837					
Be	9	104.517					
B	11	95.508					
Na	23	86.507					
Mg	24	98.467					
Al	27	93.547					
P	31	83.710					
K	39	101.754					
Ca	43	95.958					
> Sc	45		84.7				
Ti	47	97.398					
V	51	97.521					
Cr	52	100.642					
Cr	53						
Mn	55	105.710					
Fe	57	109.746					
Co	59	103.543					
Ni	60	104.104					
Cu	63						
Cu	65	103.567					
Zn	66	100.023					
Zn	67						
Zn	68						
> Ge	74		87.8				
As	75	96.929					
Se	77						
Se	82	99.000					
Kr	83						
Sr	88	103.140					
Y	89						
Mo	98	98.694					
Ag	107	102.876					
Cd	111	100.232					
Cd	114						
> In	115		89.5				
Sn	120	102.970					
Sb	121	101.387					
Sb	123						
Ba	135						
Ba	137	96.052					
Ho	165						
> Lu	175		93.1				
Tl	205	84.522					
Pb	208	104.524					
Bi	209						
Th	232	98.722					
U	238	100.624					

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	Na	23	23CCV is out of limits (+/- 10%)
QC Std 8	P	31	31CCV is out of limits (+/- 10%)
QC Std 8	Ti	47	205CCV is out of limits (+/- 10%)

Sample ID: QC Std 8

Report Date/Time: Sunday, January 03, 2010 22:09:59

Page 3

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, January 03, 2010 22:13:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.118

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.004	ug/L	60.869	71	0.000
Be	9	0.012	ug/L	52.297	19	0.000
B	11	1.665	ug/L	29.590	1276	0.001
Na	23	-0.812	ug/L	233.940	12007	-0.003
Mg	24	-0.365	ug/L	54.985	667	-0.001
Al	27	-0.022	ug/L	1251.087	3667	-0.000
P	31	-0.759	ug/L	63.222	5911	-0.000
K	39	4.000	ug/L	211.388	564290	0.016
Ca	43	4.698	ug/L	26.950	282	0.000
> Sc	45		ug/L		1221863	1221863.107
Ti	47	-0.021	ug/L	209.606	294	-0.000
V	51	-0.736	ug/L	108.870	4814	-0.004
Cr	52	0.143	ug/L	34.461	-745	0.001
Cr	53		ug/L		122610	-0.011
Mn	55	0.000	ug/L	983.537	1005	0.000
Fe	57	1.640	ug/L	105.980	4755	0.000
Co	59	0.003	ug/L	45.784	103	0.000
Ni	60	0.007	ug/L	137.160	71	0.000
Cu	63		ug/L		287	0.000
Cu	65	0.021	ug/L	54.090	150	0.000
Zn	66	0.011	ug/L	295.187	239	0.000
Zn	67		ug/L		15843	-0.001
Zn	68		ug/L		1759	-0.000
> Ge	74		ug/L		418641	418641.475
As	75	0.640	ug/L	19.036	436	0.002
Se	77		ug/L		6523	-0.002
Se	82	0.193	ug/L	78.887	-0	0.000
Kr	83		ug/L		104	-0.000
Sr	88	0.002	ug/L	48.066	203	0.000
Y	89		ug/L		54	-0.000
Mo	98	0.037	ug/L	24.767	221	0.001
Ag	107	0.004	ug/L	48.336	72	0.000
Cd	111	0.003	ug/L	184.458	31	0.000
Cd	114		ug/L		46	0.000
> In	115		ug/L		268613	268613.106
Sn	120	0.104	ug/L	15.704	1031	0.003
Sb	121	0.215	ug/L	27.470	1634	0.005
Sb	123		ug/L		1339	0.004
Ba	135		ug/L		39	0.000
Ba	137	0.001	ug/L	117.343	46	0.000
Ho	165		ug/L		29	0.000
> Lu	175		ug/L		562568	562568.061
Tl	205	1.477	ug/L	15.538	41352	0.067
Pb	208	0.006	ug/L	12.473	605	0.000
Bi	209		ug/L		150	-0.000
Th	232	0.056	ug/L	28.662	3557	0.005
U	238	0.008	ug/L	19.780	804	0.001

Sample ID: QC Std 9

Report Date/Time: Sunday, January 03, 2010 22:16:07

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	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	0.9999
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		86.5			
|	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		89.1			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		90.7			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
|>	Lu	175		93.7			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, January 04, 2010 03:00:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\dl only.mth

Dataset File: c:\elandata\Dataset\100103\Blank.165

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		596146	
[	Tl	205		ug/L		7880	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[	Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Monday, January 04, 2010 03:00:56

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, January 04, 2010 03:05:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\TI only.mth

Dataset File: c:\elandata\Dataset\100103\Standard 1.166

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		605505	605504.907
[TI	205	10.000	ug/L	0.671	277145	0.444

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 % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175					
[TI	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Monday, January 04, 2010 03:05:23

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, January 04, 2010 03:09:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: c:\elandata\Dataset\100103\Standard 2.167

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		596316	596315.906
[	Tl	205	99.932	ug/L	0.643	2488601	4.160

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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, January 04, 2010 03:14:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 1.168

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		598574	598573.597
[	TI	205	50.602	ug/L	2.935	1268364	2.106

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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.4				
[	TI	205	101.204					

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: Monday, January 04, 2010 03:14:18

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, January 04, 2010 03:18:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 2.169

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		601493	601493.184
[TI	205	0.280	ug/L	2.707	14961	0.012

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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175		100.9				
[TI	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, January 04, 2010 03:23:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\dl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 3.170

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		599565	599565.431
[	Tl	205	1.079	ug/L	3.158	34851	0.045

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.6			
[	Tl	205	107.888				

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 4

Sample Date/Time: Monday, January 04, 2010 03:27:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 4.171

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		534642	534642.011
[	TI	205	0.001	ug/L	1094.628	7082	0.000

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	% Recov	Dilution	% Di	Duplicate	Rel. % Difference
[>	Lu	175					89.7					
[	TI	205										

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Monday, January 04, 2010 03:27:47

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, January 04, 2010 03:32:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 5.172

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		537331	537330.943
[	TI	205	19.883	ug/L	1.610	451842	0.828

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 % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			90.1		
[	TI	205	99.415				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, January 04, 2010 03:36:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 6.173

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		589465	589465.449
[TI	205	49.939	ug/L	1.296	1233125	2.079

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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175		98.9				
[TI	205	99.878					

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: Monday, January 04, 2010 03:36:47

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, January 04, 2010 03:41:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 7.174

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		599306	599305.501
[	Tl	205	0.178		ug/L	4.831	12370	0.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.5				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, January 04, 2010 04:17:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.182

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		596539	596538.623
[	TI	205	47.359	ug/L	1.528	1183986	1.971

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 % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			100.1		
[	TI	205	94.718				

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: Monday, January 04, 2010 04:17:31

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Monday, January 04, 2010 04:21:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\1 only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.183

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		603204	603204.213
[TI	205	0.211	ug/L	4.952	13275	0.009

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 % Dil	Duplicate Rel. % Difference
[> Lu	175		101.2			
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Monday, January 04, 2010 04:22:03

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006053

Sample Date/Time: Monday, January 04, 2010 04:26:24

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\1202006053.184

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		578748	578747.932
[	Tl	205	-0.027	ug/L	14.025	7001	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		97.1				
[	Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006053

Report Date/Time: Monday, January 04, 2010 04:26:37

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006054

Sample Date/Time: Monday, January 04, 2010 04:30:58

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\tl only.mth

Dataset File: c:\elandata\Dataset\100103\1202006054.185

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		574321	574320.510
[	Tl	205	43.679	ug/L	0.096	1051865	1.818

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
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	% Dil	Duplicate	Rel. % Difference
[>	Lu	175					96.3					
[	Tl	205										

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006054

Report Date/Time: Monday, January 04, 2010 04:31:11

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006055

Sample Date/Time: Monday, January 04, 2010 04:44:42

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\1202006055.188

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		575607	575606.900
[	TI	205	-0.062	ug/L	8.957	6112	-0.003

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 % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		96.6			
[	TI	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202006056

Sample Date/Time: Monday, January 04, 2010 04:49:17

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\1202006056.189

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		580468	580468.333
[	Tl	205	81.733 ug/L	1.225	1982568	3.402

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 % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		97.4			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202006057

Sample Date/Time: Monday, January 04, 2010 04:53:50

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 937496[5]ba]

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\1202006057.190

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		600864	600863.575
[	Tl	205	0.650	ug/L	0.793	24210	0.027

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.8				
[	Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, January 04, 2010 04:58:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.191

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		596768	596767.600
[	Tl	205	47.212	ug/L	0.859	1180761	1.965

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.1			
[	Tl	205	94.424				

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: Monday, January 04, 2010 04:58:32

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Monday, January 04, 2010 05:02:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.192

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		604894	604894.389
[	Tl	205	0.327	ug/L	1.303	16231	0.014

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		101.5			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 243627001

Sample Date/Time: Monday, January 04, 2010 05:12:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\Tl only.mth

Dataset File: c:\elandata\Dataset\100103\243627001.194

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		577140	577140.211
[	Tl	205	-0.054	ug/L	10.884	6337	-0.002

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 %	Duplicate Rel. % Difference
[>	Lu	175		96.8			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, January 04, 2010 05:30:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 8.198

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		593405	593405.412
[	TI	205	45.103	ug/L	1.547	1121952	1.878

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	% Dil	Duplicate	Rel. % Difference
[>	Lu	175					99.5					
[	TI	205		90.207								

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: Monday, January 04, 2010 05:34:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Tl only.mth

Dataset File: c:\elandata\Dataset\100103\QC Std 9.199

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		598966	598965.639
[	Tl	205	0.211	ug/L	2.239	13181	0.009

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.5				
[	Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Monday, January 04, 2010 05:35:02

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, January 04, 2010 10:41:22

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1649

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	3512.2	3512.232	128.283	3.7
Mg	24.0	47233.8	47233.766	549.550	1.2
Co	58.9	91025.3	91025.285	607.526	0.7
Rh	102.9	159862.9	159862.908	854.487	0.5
In	114.9	235956.6	235956.608	2146.407	0.9
Pb	208.0	253887.3	253887.313	2157.230	0.8
[> Ba	137.9	224624.4	224624.356	2155.436	1.0
[Ba++	69.0	4388.7	0.020	0.000	1.4
[> Ce	139.9	272378.1	272378.061	2256.038	0.8
[CeO	155.9	6598.6	0.024	0.000	0.5
Bkgd	220.0	17.5	17.500	4.373	25.0

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
7.00	Lens Voltage
1450.00	ICP RF Power
-1687.50	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	7.3	4566.4
Co	59	17	8.3	89391.5
In	115	17	9.5	240006.3

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	599	2065	0.576
Be	9.0	9.0	2054	2070	0.606
Mg	24.0	24.0	5691	2070	0.612
Mg	25.0	25.0	5943	2070	0.610
Mg	26.0	25.9	6158	2070	0.637
Co	58.9	58.9	14184	2105	0.603
Rh	102.9	102.9	24870	2165	0.605
In	114.9	114.9	27796	2185	0.592
Ce	139.9	139.9	33868	2200	0.621
Pb	206.0	206.0	49948	2270	0.640
Pb	207.0	207.0	50171	2235	0.676
Pb	208.0	208.0	50439	2260	0.704
U	238.1	238.0	57722	2275	0.705

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, January 04, 2010 16:23:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\Blank.114

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		586177	
[U	238		ug/L		1220	

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 % Recovery	Dilution % Dil	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

Sample ID: Blank

Report Date/Time: Monday, January 04, 2010 16:23:29

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, January 04, 2010 16:24:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\Standard 1.115

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		585004	585004.384
[U	238	10.000	ug/L	1.183	562031	0.959

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu	175					
[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: Monday, January 04, 2010 16:26:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\du only.mth

Dataset File: C:\elandata\Dataset\100104\Standard 2.116

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		583259	583258.924
[	U	238	99.822	ug/L	0.380	4737625	8.121

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						
[	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 1

Sample Date/Time: Monday, January 04, 2010 16:28:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 1.117

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		583537	583537.048
[	U	238	53.585 ug/L	2.136	2544741	4.359

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		99.5		
[	U	238	107.171			

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: Monday, January 04, 2010 16:29:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 2.118

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		588345	588345.375
[	U	238	0.025	ug/L	0.731	2398	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		100.4			
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, January 04, 2010 16:31:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 3.119

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		590298	590297.995
[	U	238	0.257	ug/L	1.625	13592	0.021

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			100.7		
[	U	238	128.713				

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 3

Report Date/Time: Monday, January 04, 2010 16:31:41

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, January 04, 2010 16:33:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 4.120

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		522438	522438.443
[U	238	-0.017	ug/L	0.827	345	-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		89.1			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Monday, January 04, 2010 16:33:20

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, January 04, 2010 16:34:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 5.121

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		520311	520311.255
[	U	238	23.875		ug/L	0.369	1011667	1.942

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					88.8					
[	U	238		119.374								

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Monday, January 04, 2010 16:34:59

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, January 04, 2010 16:36:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 6.122

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		580507	580507.106
[	U	238	52.699	ug/L	0.348	2489978	4.287

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		99.0			
[	U	238	105.397				

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: Monday, January 04, 2010 16:36:37

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, January 04, 2010 16:38:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 7.123

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		595661	595660.731
[	U	238	0.018	ug/L	2.469	2134	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		101.6			
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, January 04, 2010 16:38:19

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006053

Sample Date/Time: Monday, January 04, 2010 16:39:50

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 937496|1|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\1202006053.124

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
> Lu	175		ug/L		570389	570389.292
[U	238	-0.019	ug/L	2.904	311	-0.002

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		97.3			
[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: 1202006054

Sample Date/Time: Monday, January 04, 2010 16:41:33

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\1202006054.125

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		573970	573969.546
[	U	238	54.373	ug/L	2.422	2539347	4.423

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		97.9			
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202006055

Sample Date/Time: Monday, January 04, 2010 16:46:48

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\1202006055.128

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		576530	576530.449
[U	238	-0.010	ug/L	3.607	719	-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		98.4			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006055

Report Date/Time: Monday, January 04, 2010 16:47:02

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006056

Sample Date/Time: Monday, January 04, 2010 16:48:32

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 9374961|ba|

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\1202006056.129

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		578122	578121.593
[	U	238	55.382	ug/L	2.790	2605685	4.506

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		98.6			
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202006056

Report Date/Time: Monday, January 04, 2010 16:48:44

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202006057

Sample Date/Time: Monday, January 04, 2010 16:50:15

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 937496|5|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\1202006057.130

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		587244	587244.187
[U	238	-0.005	ug/L	17.089	964	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		100.2			
[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

Sample ID: 1202006057

Report Date/Time: Monday, January 04, 2010 16:50:28

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, January 04, 2010 16:51:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 8.131

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		583515	583514.717
[	U	238	54.035	ug/L	0.152	2566294	4.396

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		99.5				
[	U	238	108.069					

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: Monday, January 04, 2010 16:52:05

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Monday, January 04, 2010 16:53:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 9.132

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		584261	584261.120
[	U	238	0.021	ug/L	3.611	2232	0.002

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		99.7			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 243627001

Sample Date/Time: Monday, January 04, 2010 16:57:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 937496|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\243627001.134

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		581003	581003.435
[	U	238	-0.016 ug/L	1.657	472	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		99.1		
[	U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
------------------	---------	---------------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 243627001

Report Date/Time: Monday, January 04, 2010 16:57:16

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, January 04, 2010 17:04:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 8.138

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		583804	583803.943
[U	238	53.852	ug/L	0.393	2558871	4.381

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> Lu	175			99.6			
[U	238	107.705					

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: Monday, January 04, 2010 17:05:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100104\QC Std 9.139

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		586424	586424.060
[	U	238	0.019	ug/L	6.121	2127	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		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

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\010810W1.SIF

Batch ID:

Results Data Set: 010810W1

Results Library: C:\data-AA\Administrator\Results\Results.mdb
=====

Method Loaded

Method Name: WATER

Method Last Saved: 12/28/2009 15:47:50

Method Description: 7470A, 245.2, ILM04 ANALYST JXL
=====

Sequence No.: 1

Sample ID: Calib Blank

Analyst:

Autosampler Location: 1

Date Collected: 1/8/2010 09:05:01

Data Type: Original
=====

Replicate Data: Calib Blank

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.00]	0.0004	0.0012	0.0004	09:06:03	Yes
2		[0.00]	0.0004	0.0012	0.0004	09:06:38	Yes
Mean:		[0.00]	0.0004				
SD:		0.00	0.0000				
%RSD:		0.00	3.39				

Auto-zero performed.
=====

Sequence No.: 2

Sample ID: S0.2

Analyst:

Autosampler Location: 2

Date Collected: 1/8/2010 09:06:57

Data Type: Original
=====

Replicate Data: S0.2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.2]	0.0020	0.0107	0.0024	09:07:58	Yes
2		[0.2]	0.0019	0.0101	0.0023	09:08:33	Yes
Mean:		[0.2]	0.0019				
SD:		0.0	0.0001				
%RSD:		0.0	4.18				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.00956 Intercept: 0.00000
=====

Sequence No.: 3

Sample ID: S0.5

Analyst:

Autosampler Location: 3

Date Collected: 1/8/2010 09:08:52

Data Type: Original
=====

Replicate Data: S0.5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.5]	0.0048	0.0241	0.0053	09:09:53	Yes
2		[0.5]	0.0048	0.0235	0.0052	09:10:28	Yes
Mean:		[0.5]	0.0048				
SD:		0.0	0.0000				
%RSD:		0.0	0.75				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999993 Slope: 0.00964 Intercept: -0.00001
=====

Sequence No.: 4

Sample ID: S2.0

Analyst:

Autosampler Location: 4

Date Collected: 1/8/2010 09:10:47

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]	0.0200	0.0952	0.0204	09:11:49	Yes
2		[2.0]	0.0198	0.0946	0.0203	09:12:23	Yes
Mean:		[2.0]	0.0199				
SD:		0.0	0.0001				
%RSD:		0.0	0.46				

Standard number 3 applied. [2.0]

Correlation Coef.: 0.999970 Slope: 0.00997 Intercept: -0.00008

Sequence No.: 5

Sample ID: S5.0

Analyst:

Autosampler Location: 5

Date Collected: 1/8/2010 09:12:43

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]	0.0509	0.2400	0.0513	09:13:45	Yes
2		[5.0]	0.0505	0.2386	0.0510	09:14:20	Yes
Mean:		[5.0]	0.0507				
SD:		0.0	0.0002				
%RSD:		0.0	0.45				

Standard number 4 applied. [5.0]

Correlation Coef.: 0.999969 Slope: 0.01016 Intercept: -0.00017

Sequence No.: 6

Sample ID: S10.0

Analyst:

Autosampler Location: 6

Date Collected: 1/8/2010 09:14:40

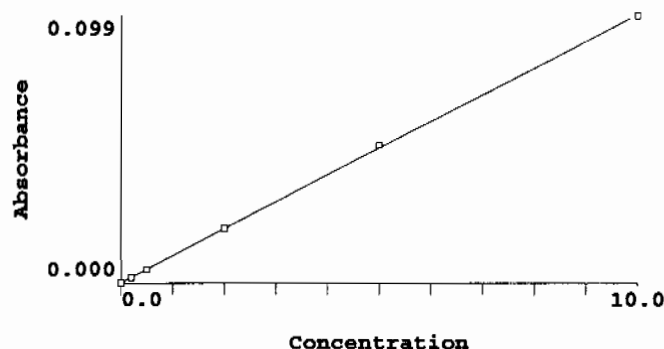
Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.0992	0.4709	0.0996	09:15:40	Yes
2		[10.0]	0.0992	0.4684	0.0997	09:16:15	Yes
Mean:		[10.0]	0.0992				
SD:		0.0	0.0001				
%RSD:		0.0	0.06				

Standard number 5 applied. [10.0]

Correlation Coef.: 0.999934 Slope: 0.00996 Intercept: 0.00005

-----
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	-0.005	0.00	3.4
S0.2	0.0019	0.2	0.187	0.00	4.2
S0.5	0.0048	0.5	0.479	0.00	0.8
S2.0	0.0199	2.0	1.993	0.00	0.5

S5.0 0.0507 5.0 5.088 0.00 0.5
S10.0 0.0992 10.0 9.959 0.00 0.1
Correlation Coef.: 0.999934 Slope: 0.00996 Intercept: 0.00005

Sequence No.: 7

Sample ID: ICV

Analyst:

Autosampler Location: 9

Date Collected: 1/8/2010 09:16:34

Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.242	5.242	0.0522	0.2467	0.0527	09:17:35	Yes
2	5.230	5.230	0.0521	0.2432	0.0526	09:18:11	Yes
Mean:	5.236	5.236	0.0522				
SD:	0.009	0.009	0.0001				
%RSD:	0.164	0.164	0.16				

QC value within limits for Hg 253.7 Recovery = 104.71%

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICB

Analyst:

Autosampler Location: 10

Date Collected: 1/8/2010 09:18:30

Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.005	0.005	0.0001	0.0017	0.0005	09:19:32	Yes
2	0.006	0.006	0.0001	0.0014	0.0005	09:20:06	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	10.31	10.31	5.22				

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: 1/8/2010 09:20:26

Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.212	0.212	0.0022	0.0115	0.0026	09:21:28	Yes
2	0.205	0.205	0.0021	0.0114	0.0025	09:22:03	Yes
Mean:	0.209	0.209	0.0021				
SD:	0.005	0.005	0.0001				
%RSD:	2.471	2.471	2.41				

QC value within limits for Hg 253.7 Recovery = 104.26%

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/8/2010 09:22:23

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.214	5.214	0.0520	0.2452	0.0524	09:23:23	Yes
2	5.196	5.196	0.0518	0.2428	0.0522	09:23:59	Yes
Mean:	5.205	5.205	0.0519				
SD:	0.012	0.012	0.0001				
%RSD:	0.234	0.234	0.23				

QC value within limits for Hg 253.7 Recovery = 104.10%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 1/8/2010 09:24:18
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	0.0000	0.0015	0.0004	09:25:19	Yes
2	0.001	0.001	0.0001	0.0019	0.0005	09:25:54	Yes
Mean:	-0.001	-0.001	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	314.5	314.5	91.78				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.
User canceled analysis.

Replicate Data: 243478001|937649|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.008	0.008	0.0001	0.0027	0.0006	09:43:21	Yes
2	0.014	0.014	0.0002	0.0032	0.0006	09:43:56	Yes
Mean:	0.011	0.011	0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	35.60	35.60	24.00				

Sequence No.: 10

Sample ID: 1202006482|937649|1

Analyst: JXL

Autosampler Location: 21

Date Collected: 1/8/2010 09:44:16

Data Type: Original

Replicate Data: 1202006482|937649|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.010	0.010	0.0002	0.0040	0.0006	09:45:17	Yes
2	0.012	0.012	0.0002	0.0049	0.0006	09:45:51	Yes
Mean:	0.011	0.011	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	12.00	12.00	8.16				

Sequence No.: 11

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/8/2010 09:46:11

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.203	5.203	0.0519	0.2471	0.0523	09:47:12	Yes
2	5.204	5.204	0.0519	0.2453	0.0523	09:47:46	Yes
Mean:	5.204	5.204	0.0519				
SD:	0.000	0.000	0.0000				
%RSD:	0.008	0.008	0.01				

QC value within limits for Hg 253.7 Recovery = 104.07%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/8/2010 09:48:05

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0000	0.0019	0.0005	09:49:06	Yes
2	-0.006	-0.006	-0.0000	0.0017	0.0004	09:49:41	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	42.25	42.25	633.13				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: 1202006483|937649|1

Analyst: JXL

Autosampler Location: 22

Date Collected: 1/8/2010 09:50:00

Data Type: Original

Replicate Data: 1202006483|937649|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.048	2.048	0.0204	0.0984	0.0209	09:51:02	Yes
2	2.041	2.041	0.0204	0.0977	0.0208	09:51:37	Yes
Mean:	2.045	2.045	0.0204				

SD: 0.005 0.005 0.0001
%RSD: 0.269 0.269 0.27

Sequence No.: 14

Sample ID: 1202006484|937649|5

Analyst: JXL

Autosampler Location: 23

Date Collected: 1/8/2010 09:51:57

Data Type: Original

Replicate Data: 1202006484|937649|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	-0.0000	0.0015	0.0004	09:52:58	Yes
2	0.000	0.000	0.0001	0.0019	0.0005	09:53:33	Yes
Mean:	-0.003	-0.003	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	134.4	134.4	219.53				

Sequence No.: 15

Sample ID: 243478003|937649|1

Analyst: JXL

Autosampler Location: 24

Date Collected: 1/8/2010 09:53:53

Data Type: Original

Replicate Data: 243478003|937649|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.001	-0.001	0.0000	0.0019	0.0005	09:54:55	Yes
2	0.001	0.001	0.0001	0.0025	0.0005	09:55:30	Yes
Mean:	0.000	0.000	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	>999.9%	>999.9%	34.18				

Sequence No.: 16

Sample ID: 1202006475|937647|1

Analyst: JXL

Autosampler Location: 25

Date Collected: 1/8/2010 09:55:50

Data Type: Original

Replicate Data: 1202006475|937647|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	-0.0000	0.0023	0.0004	09:56:52	Yes
2	0.003	0.003	0.0001	0.0027	0.0005	09:57:27	Yes
Mean:	-0.001	-0.001	0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	502.3	502.3	149.83				

Sequence No.: 17

Sample ID: 1202006479|937647|1

Analyst: JXL

Autosampler Location: 26

Date Collected: 1/8/2010 09:57:47

Data Type: Original

Replicate Data: 1202006479|937647|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.031	2.031	0.0203	0.1003	0.0207	09:58:48	Yes
2	2.024	2.024	0.0202	0.0986	0.0206	09:59:23	Yes
Mean:	2.027	2.027	0.0202				
SD:	0.005	0.005	0.0000				
%RSD:	0.245	0.245	0.24				

Sequence No.: 18

Sample ID: 243627001|937647|1

Analyst: JXL

Autosampler Location: 27

Date Collected: 1/8/2010 09:59:42

Data Type: Original

Replicate Data: 243627001|937647|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	----------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.017	0.017	0.0002	0.0051	0.0007	10:00:42	Yes
2	0.011	0.011	0.0002	0.0038	0.0006	10:01:17	Yes
Mean:	0.014	0.014	0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	30.50	30.50	22.27				

Sequence No.: 19

Autosampler Location: 28

Sample ID: 1202006476|937647|1

Date Collected: 1/8/2010 10:01:37

Analyst: JXL

Data Type: Original

Replicate Data: 1202006476|937647|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.007	-0.007	-0.0000	0.0018	0.0004	10:02:37	Yes
2	0.001	0.001	0.0001	0.0020	0.0005	10:03:12	Yes
Mean:	-0.003	-0.003	0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	173.3	173.3	293.14				

Sequence No.: 20

Autosampler Location: 29

Sample ID: 1202006478|937647|1

Date Collected: 1/8/2010 10:03:31

Analyst: JXL

Data Type: Original

Replicate Data: 1202006478|937647|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.043	2.043	0.0204	0.0986	0.0208	10:04:32	Yes
2	2.033	2.033	0.0203	0.0979	0.0207	10:05:07	Yes
Mean:	2.038	2.038	0.0203				
SD:	0.007	0.007	0.0001				
%RSD:	0.327	0.327	0.33				

Sequence No.: 21

Autosampler Location: 30

Sample ID: 1202006477|937647|5

Date Collected: 1/8/2010 10:05:26

Analyst: JXL

Data Type: Original

Replicate Data: 1202006477|937647|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.007	-0.007	-0.0000	0.0016	0.0004	10:06:26	Yes
2	0.000	0.000	0.0000	0.0021	0.0005	10:07:01	Yes
Mean:	-0.004	-0.004	0.0000				
SD:	0.005	0.005	0.0000				
%RSD:	128.6	128.6	343.06				

Sequence No.: 22

Autosampler Location: 31

Sample ID: 243629001|937647|1

Date Collected: 1/8/2010 10:07:20

Analyst: JXL

Data Type: Original

Replicate Data: 243629001|937647|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	10:08:21	Yes
2	-0.008	-0.008	-0.0000	0.0018	0.0004	10:08:56	Yes
Mean:	-0.004	-0.004	0.0000				
SD:	0.005	0.005	0.0000				
%RSD:	115.1	115.1	480.08				

Sequence No.: 23

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/8/2010 10:09:15

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.267	5.267	0.0525	0.2501	0.0529	10:10:16	Yes
2	5.256	5.256	0.0524	0.2477	0.0528	10:10:51	Yes
Mean:	5.261	5.261	0.0524				
SD:	0.008	0.008	0.0001				
%RSD:	0.148	0.148	0.15				

QC value within limits for Hg 253.7 Recovery = 105.23%
All analyte(s) passed QC.

=====

Sequence No.: 24

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/8/2010 10:11:10

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.001	-0.001	0.0000	0.0023	0.0005	10:12:10	Yes
2	-0.004	-0.004	0.0000	0.0022	0.0004	10:12:45	Yes
Mean:	-0.002	-0.002	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	85.54	85.54	64.33				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 25

Sample ID: 243631001|937647|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 1/8/2010 10:13:04

Data Type: Original

Replicate Data: 243631001|937647|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	0.0000	0.0021	0.0004	10:14:05	Yes
2	-0.007	-0.007	-0.0000	0.0022	0.0004	10:14:40	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	38.91	38.91	>999.9%				

=====

Sequence No.: 26

Sample ID: 243632001|937647|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 1/8/2010 10:15:00

Data Type: Original

Replicate Data: 243632001|937647|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0000	0.0023	0.0005	10:16:01	Yes
2	-0.001	-0.001	0.0000	0.0025	0.0005	10:16:35	Yes
Mean:	-0.002	-0.002	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	67.97	67.97	36.18				

=====

Sequence No.: 27

Sample ID: 1202006469|937645|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 1/8/2010 10:16:55

Data Type: Original

Replicate Data: 1202006469|937645|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.002	0.002	0.0001	0.0026	0.0005	10:17:56	Yes
2	0.000	0.000	0.0001	0.0023	0.0005	10:18:31	Yes

Miscellaneous

Prep LogBook

Analyst: BXA1 Verified by: _____

Batch: 937495

Lab SOP: GL-MA-E-006 REV# 9

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202006053		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
LCS	1202006054		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243601001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243608001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
DUP	1202006055	243608001	SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
MS	1202006056	243608001	SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SDILT	1202006057	243608001	SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243621001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243627001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243629001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243631001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL
SAMPLE	243632001		SW846 3005A	31-DEC-2009 07:20	<2	50 mL	50 mL	1		mL

Comments:

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: BXA1 Verified by: _____
 Batch: 937468
 Lab SOP: GL-MA-E-006 REV# 9

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202006002		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1		mL
LCS	1202006003		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243601001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243608001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243621001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243627001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243629001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243631001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SAMPLE	243632001		SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
DUP	1202006004	243632001	SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
MS	1202006005	243632001	SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL
SDILT	1202006006	243632001	SW846 3005A	31-DEC-2009 07:29	<2	50 mL	50 mL	1	.25	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: AXG2 Verified by: _____

Batch: 937646

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	1202006475		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
LCS	1202006479		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1	2	mL
SAMPLE	243627001		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
DUP	1202006476	243627001	SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
SDILT	1202006477	243627001	SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
MS	1202006478	243627001	SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
SAMPLE	243629001		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
SAMPLE	243631001		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL
SAMPLE	243632001		SW846 7470A Prep	07-JAN-2010 11:30	<2	20 mL	20 mL	1		mL

Comments Digestion Start Date: 07-JAN-10 11:30
Digestion End Date: 07-JAN-10 13:30

Reagent/Solvent Lot ID	Amount	Description
1176183	1 mL	Sulfuric Acid, Concentrated
1240182-1	.5 mL	NITRIC ACID
1234385-C	1.5 mL	5% Potassium Persulfate
1244904-C	3 mL	5% KMnO4 solution
1206350-C	1 mL	Hg reducing agent
WHG100107-06	500 uL	Mercury Working 2nd Source 5.0/ICV
WHG100107-01a	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG100107-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG100107-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG100107-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG100107-04	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% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

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
---------	---------------	---------	---------------

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:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: O2Si
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090828-A **Opened:** 28-AUG-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 28-AUG-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI090828-B **Opened:** 28-AUG-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 28-AUG-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: 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

Standard Logbook

Description: SECOND SOURCE STD #1B

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%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 **Expres:** 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: UI091124-01 **Opened:** 24-NOV-09 **Lot Number :** 1017642
Name: METALSPIKE-1 **Received:** 24-NOV-09
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Standard Logbook

Serial ID: UI091124-06 **Opened:** 24-NOV-09 **Lot Number :** 1017643
Name: METALSPIKE-2 **Received:** 24-NOV-09
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI091124-A00 **Opened:** 24-NOV-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 24-NOV-09 **Lot Number :** 1017644
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI091124-B **Opened:** 24-NOV-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 24-NOV-09 **Lot Number :** 1017644
Type: Source Material **Expires:** 24-NOV-10
Employee: Francena Armstrong
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091212-11 **Opened:** 12-DEC-09 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 12-DEC-09 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1015303
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: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Serial ID: UI091212-61 **Opened:** 12-DEC-09 **Amount :** 5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI091215-48 **Opened:** 04-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSEA **Received:** 18-DEC-09 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-JAN-11 **Lot Number :** 1018219
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: 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: O2SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Standard Logbook

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI091228-40 **Opened:** 28-DEC-09 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 21-DEC-09 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-DEC-10 **Lot Number :** 1018160
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Standard Logbook

Serial ID: UI091228-41 **Opened:** 28-DEC-09 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 21-DEC-09 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-DEC-10 **Lot Number :** 1018160
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: O2SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

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: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100107-01 **Opened:** 07-JAN-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 07-JAN-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 08-JAN-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: IHG100107-02 **Opened:** 07-JAN-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Intermediate **Expires:** 08-JAN-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: WHG100107-01a **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100107-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100107-02 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100107-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100107-03 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy **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.
IHG100107-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100107-04 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy **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.
IHG100107-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100107-05 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy **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.
IHG100107-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Standard Logbook

Serial ID: WHG100107-06 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-10
Employee: Jason Loy
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
IHG100107-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100107-13 **Opened:** 07-JAN-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 07-JAN-10 **Solvent :** 2% HNO3-1240182
Type: Working **Expires:** 08-JAN-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.	Allquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100112-42 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WI100112-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100112-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100112-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100112-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100112-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100112-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100112-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100112-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100112-43 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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: WI100112-44 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expres:** 13-JAN-10 **Solvent :** 3%HCL and 1 %HNO3-1253514
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: WI100112-45 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1253514
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: WI100112-46 **Opened:** 12-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 13-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1253514
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: WI100112-47 Opened: 12-JAN-10 Balance Id : 216
 Name: PQL Working Standard Received: 30-JUN-09 Pipet Id : 1099667
 Type: Working Expires: 13-JAN-10 Solvent : 3%HCL & 1%HNO3-1253514
 Employee: Helen Camello
 Supplier: Q2si
 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: WMS100103-04 **Opened:** 03-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 03-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 04-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1247304
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100103-04A **Opened:** 03-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 03-JAN-10 **Pipet Id :** 3541598
Type: Working **Expres:** 04-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1247304
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100103-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100103-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100103-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100103-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100103-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100103-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100103-05 **Opened:** 03-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 03-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1247304
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100103-06 **Opened:** 03-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 03-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 04-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1247304
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100103-07 **Opened:** 03-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 03-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 04-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1247304
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100103-08 **Opened:** 03-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 03-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1247304
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
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

Serial ID: WMS100103-70 **Opened:** 03-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 03-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1247304
Employee: Elizabeth Janssen
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100104-04 Opened: 04-JAN-10 Amount : 50 mL
 Name: ICPMS Cal Standard 100 Received: 04-JAN-10 Balance Id : 4025216
 Type: Working Expires: 05-JAN-10 Pipet Id : 3541598
 Employee: Paul Boyd Solvent : 2%HNO3/1%HCl-1249336
 Supplier: GEL
 Description: ICPMS Calibration Standard (100 ppb)
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100104-04A **Opened:** 04-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 04-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 05-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1249336
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100104-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100104-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100104-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100104-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100104-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100104-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100104-05 **Opened:** 04-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 04-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 05-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1249336
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100104-06 **Opened:** 04-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 04-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 05-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1249336
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100104-07 **Opened:** 04-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 04-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 05-JAN-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1249336
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100104-08 **Opened:** 04-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 04-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 05-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1249336
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI091212-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI091212-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI091212-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
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

Standard Logbook

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 1164796-A **Opened:** 06-AUG-09 **Lot Number :** 49149927
Name: B-NH2OH.HCl-MER **Received:** 06-AUG-09
Type: Reagent/Solvent **Expires:** 06-AUG-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
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: 1206350-C **Opened:** 22-OCT-09 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 22-OCT-09
Type: Reagent/Solvent **Expires:** 15-JAN-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1164796-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

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: 1234385-C **Opened:** 25-NOV-09 **Balance Id :** BAL-002
Name: B-K2S2O8-MER **Received:** 25-NOV-09
Type: Reagent/Solvent **Expires:** 25-MAY-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: 1234886 **Opened:** 27-NOV-09 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 27-NOV-09
Type: Reagent/Solvent **Expires:** 27-NOV-10
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1238345 **Opened:** 04-DEC-09 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 04-DEC-09
Type: Reagent/Solvent **Expires:** 04-DEC-10
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1240182-1 **Opened:** 09-DEC-09 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 09-DEC-09 **Lot Number :** H34040
Type: Reagent/Solvent **Expires:** 09-DEC-10
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1244904-C **Opened:** 18-DEC-09 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 18-DEC-09
Type: Reagent/Solvent **Expires:** 18-JUN-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
.1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1244970 **Opened:** 18-DEC-09 **Lot Number :** H41032
Name: I-HCL **Received:** 18-DEC-09 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 18-DEC-10
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1247304 **Opened:** 28-DEC-09 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 28-DEC-09
Type: Reagent/Solvent **Expires:** 04-JAN-10
Employee: Elizabeth Janssen
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1238345	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1244970	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1249336 **Opened:** 04-JAN-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 04-JAN-10
Type: Reagent/Solvent **Expires:** 11-JAN-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1238345	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1244970	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1253514 **Opened:** 11-JAN-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 11-JAN-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 17-JAN-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1101**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	937569	Method:	SW846 9012A
Prep Batch :	937568	Method:	SW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
243626001	RE12-10-7841
243626002	RE12-10-7840
243626003	RE12-10-7839
243626004	RE12-10-7838
243626005	RE12-10-7858
243626006	RE12-10-7846
243626007	RE12-10-7844
243626008	RE12-10-7845
243626009	RE12-10-7842
243626010	RE12-10-7843
243626011	RE12-10-7847
1202006248	Method Blank (MB)
1202006249	Laboratory Control Sample (LCS)
1202006250	243623001(RE16-10-2951) Sample Duplicate (DUP)
1202006251	243623001(RE16-10-2951) Matrix Spike (MS)
1202006252	243623002(RE16-10-2931) Sample Duplicate (DUP)
1202006253	243623002(RE16-10-2931) Matrix Spike (MS)
1202006254	243623002(RE16-10-2931) Matrix Spike Duplicate (MSD)
1202006255	243623001(RE16-10-2951) Matrix Spike Duplicate (MSD)

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: 243623001 (RE16-10-2951) and 243623002 (RE16-10-2931).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The spike recovery falls outside of the client specified limits but within GEL acceptance limits due to matrix interference. 1202006253 (RE16-10-2931).

Matrix Spike Duplicate (MSD) Recovery Statement

The spike recovery duplicate falls outside of the client specified limits but within GEL acceptance limits due to matrix interference. 1202006254 (RE16-10-2931).

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) between the Spike and Spike Duplicate was outside of the required acceptance limits due to the heterogeneous matrix of the sample. 1202006251 (RE16-10-2951) and 1202006255 (RE16-10-2951).

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. 1202006250 (RE16-10-2951) and 1202006252 (RE16-10-2931).

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: 1202006249 (LCS).

Sample Re-analysis

The following sample was re-analyzed due to instrument failure: 1202006253 (RE16-10-2931).

Miscellaneous Information

Nonconformance (NCR) Documentation

The following NCR was generated for this SDG: 777103 1202006251 (RE16-10-2951), 1202006253 (RE16-10-2931), 1202006254 (RE16-10-2931) and 1202006255 (RE16-10-2951).

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

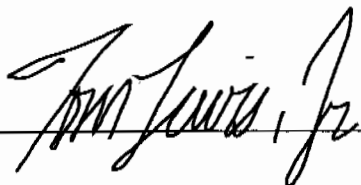
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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: _____

22Jan10

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: 10-1101 GEL Work Order: 243626

The Qualifiers in this report are defined as follows:

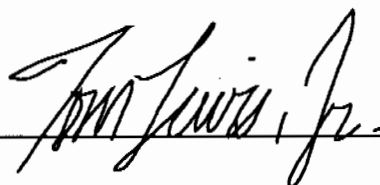
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

A handwritten signature in black ink, appearing to read "Tom Lewis, Jr.", is written over a horizontal line.

GEL LABORATORIES LLC

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: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7840
Sample ID: 243626002
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 16.2%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	72.4	266	ug/kg	1	AXC2	01/05/10	1256	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7839
Sample ID: 243626003
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 11.7%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.1	272	ug/kg	1	AXC2	01/05/10	1301	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7838
Sample ID: 243626004
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 21.8%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.9	275	ug/kg	1	AXC2	01/05/10	1302	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7858
Sample ID: 243626005
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 12.4%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	71.8	264	ug/kg	1	AXC2	01/05/10	1303	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
J	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7846
Sample ID: 243626006
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 12.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.8	249	ug/kg	1	AXC2	01/05/10	1304	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7844
Sample ID: 243626007
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 13.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.4	288	ug/kg	1	AXC2	01/05/10	1304	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7845
Sample ID: 243626008
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 7.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.5	270	ug/kg	1	AXC2	01/05/10	1305	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7842
Sample ID: 243626009
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 13.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	J	102	77.3	284	ug/kg	1	AXC2	01/05/10	1306	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7841
Sample ID: 243626001
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 15.5%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	74.5	274	ug/kg	1	AXC2	01/05/10	1256	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7843
Sample ID: 243626010
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 10.4%

Project: LANL01004
Client ID: LANL010

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

Flow Injection Analysis

SW9012A Cyanide, Total Federal "Dry Weight Corrected"

Cyanide, Total	U	ND	75.9	279	ug/kg	1	AXC2	01/05/10	1307	937569	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: January 9, 2010

Client SDG: 10-1101

Client Sample ID: RE12-10-7847
Sample ID: 243626011
Matrix: R
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client
Moisture: 9.05%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total Federal "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.3	269	ug/kg	1	AXC2	01/05/10	1308	937569	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/05/10	1055	937568

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: January 9, 2010

Page 1 of 2

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

Contact:

Workorder: 243626

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	937569										
QC1202006250	243623001	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	01/05/10	12:39
QC1202006252	243623002	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			01/05/10	12:42
QC1202006249	LCS										
Cyanide, Total	67900				72300	ug/kg	106	(46%-145%)		01/05/10	12:37
QC1202006248	MB										
Cyanide, Total			U		250	ug/kg				01/05/10	12:36
QC1202006251	243623001	MS									
Cyanide, Total	6000	U	ND		5630	ug/kg	93.9	(50%-130%)		01/05/10	12:40
QC1202006253	243623002	MS									
Cyanide, Total	5560	U	ND		3960	ug/kg	71.2	(50%-130%)		01/05/10	12:49
QC1202006254	243623002	MSD									
Cyanide, Total	5660	U	ND		4000	ug/kg	0.956	70.6	(0%-30%)	01/05/10	12:44
QC1202006255	243623001	MSD									
Cyanide, Total	5260	U	ND		4100	ug/kg	31.5*	77.8	(0%-30%)	01/05/10	12:40

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 Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria

E Organics--Concentration of the target analyte exceeds the instrument calibration range

F Estimated Value

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

M Matrix Related Failure

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor

GEL LABORATORIES LLC

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

QC Summary

Workorder: 243626

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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: 09-JAN-2010 11:28

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1101

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	05-JAN-2010 10:04:33	OM_1-5-2010_09-54-02	139	150	93	(90%-110%)	Yes
CCV	05-JAN-2010 12:32:54	OM_1-5-2010_12-29-33	99.9	100	100	(90%-110%)	Yes
CCV	05-JAN-2010 12:45:22	OM_1-5-2010_12-29-33	104	100	104	(90%-110%)	Yes
CCV	05-JAN-2010 12:57:45	OM_1-5-2010_12-29-33	106	100	106	(90%-110%)	Yes
CCV	05-JAN-2010 13:10:09	OM_1-5-2010_12-29-33	106	100	106	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	05-JAN-2010 10:06:23	OM_1-5-2010_09-54-02	-1.15	5	Yes
CCB	05-JAN-2010 12:34:44	OM_1-5-2010_12-29-33	-1.58	5	Yes
CCB	05-JAN-2010 12:47:11	OM_1-5-2010_12-29-33	-0.951	5	Yes
CCB	05-JAN-2010 12:59:36	OM_1-5-2010_12-29-33	-1.2	5	Yes
CCB	05-JAN-2010 13:12:00	OM_1-5-2010_12-29-33	-0.936	5	Yes

Cyanide, Total

Prep LogBook

Analyst: AXSS
 Batch: 937568
 Lab SOP: GL-GC-E-067 REV# 13

Verified by:

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202006249	URF1200957-01	.25	g
MS	1202006251	URF1184831-02	.025	mL
MS	1202006253	URF1184831-02	.025	mL
MSD	1202006254	URF1184831-02	.025	mL
MSD	1202006255	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202006248		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
LCS	1202006249		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.25 g	25 mL	100	SOIL
SAMPLE	243623001		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.56 g	25 mL	44.64286	SOIL
DUP	1202006250	243623001	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.52 g	25 mL	48.07692	SOIL
MS	1202006251	243623001	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
MSD	1202006255	243623001	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	243623002		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.57 g	25 mL	43.85965	SOIL
DUP	1202006252	243623002	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
MS	1202006253	243623002	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.56 g	25 mL	44.64286	SOIL
MSD	1202006254	243623002	SW846 9010B Prep	05-JAN-2010 10:55	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	243623003		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	243623004		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	243623005		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	243623006		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	243623007		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243623008		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243623009		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243626001		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	243626002		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	243626003		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	243626004		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	243626005		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	243626006		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	243626007		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243626008		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243626009		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	243626010		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.5 g	25 mL	50	SOIL
SAMPLE	243626011		SW846 9010B Prep	05-JAN-2010 10:55	>12	0.51 g	25 mL	49.01961	SOIL

Prep Data Logbook Version 1.1

GEL Laboratories LLC

Page#

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100105-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1176724-C	1.25 mL	0.8N H3NO3S	
1238146-C	2.5 mL	50% H2SO4 CN Prep	
1176778-C	1 mL	51% MgCl2 Soln	
1238142-C	1.25 mL	Bismuth Nitrate Solution	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/5/2010 9:57:24	OM_1-5-2010_09-54-02
150 ppb		1	axc2	1/5/2010 9:58:16	OM_1-5-2010_09-54-02
100 ppb		1	axc2	1/5/2010 9:59:08	OM_1-5-2010_09-54-02
50 ppb		1	axc2	1/5/2010 10:00:01	OM_1-5-2010_09-54-02
10 ppb		1	axc2	1/5/2010 10:00:55	OM_1-5-2010_09-54-02
CRDL 5.0 ppb		1	axc2	1/5/2010 10:01:48	OM_1-5-2010_09-54-02
ICAL-00		1	axc2	1/5/2010 10:02:43	OM_1-5-2010_09-54-02
ICV		1	axc2	1/5/2010 10:04:33	OM_1-5-2010_09-54-02
ICB		1	axc2	1/5/2010 10:06:23	OM_1-5-2010_09-54-02
CRDL		1	axc2	1/5/2010 10:08:13	OM_1-5-2010_09-54-02
1202007819	938324	1	axc2	1/5/2010 10:10:02	OM_1-5-2010_09-54-02
1202007820	938324	25	axc2	1/5/2010 10:10:56	OM_1-5-2010_09-54-02
1202007821	938324	25	axc2	1/5/2010 10:11:49	OM_1-5-2010_09-54-02
243711001	938324	1	axc2	1/5/2010 10:12:42	OM_1-5-2010_09-54-02
243711002	938324	1	axc2	1/5/2010 10:13:35	OM_1-5-2010_09-54-02
243711003	938324	1	axc2	1/5/2010 10:14:28	OM_1-5-2010_09-54-02
243711004	938324	1	axc2	1/5/2010 10:15:21	OM_1-5-2010_09-54-02
243711005	938324	1	axc2	1/5/2010 10:16:13	OM_1-5-2010_09-54-02
243711006	938324	1	axc2	1/5/2010 10:17:06	OM_1-5-2010_09-54-02
243711007	938324	1	axc2	1/5/2010 10:17:58	OM_1-5-2010_09-54-02
CCV		1	axc2	1/5/2010 10:18:50	OM_1-5-2010_09-54-02
CCB		1	axc2	1/5/2010 10:20:40	OM_1-5-2010_09-54-02
243711008	938324	1	axc2	1/5/2010 10:22:29	OM_1-5-2010_09-54-02
243711009	938324	1	axc2	1/5/2010 10:23:21	OM_1-5-2010_09-54-02
243711010	938324	1	axc2	1/5/2010 10:24:13	OM_1-5-2010_09-54-02
243712001	938324	1	axc2	1/5/2010 10:25:05	OM_1-5-2010_09-54-02
243712002	938324	1	axc2	1/5/2010 10:25:56	OM_1-5-2010_09-54-02
243714001	938324	1	axc2	1/5/2010 10:26:50	OM_1-5-2010_09-54-02
243714002	938324	1	axc2	1/5/2010 10:27:44	OM_1-5-2010_09-54-02
243714003	938324	1	axc2	1/5/2010 10:28:37	OM_1-5-2010_09-54-02
1202007018	937905	1	axc2	1/5/2010 10:29:31	OM_1-5-2010_09-54-02
1202007020	937905	250	axc2	1/5/2010 10:30:24	OM_1-5-2010_09-54-02
CCV		1	axc2	1/5/2010 10:31:16	OM_1-5-2010_09-54-02
CCB		1	axc2	1/5/2010 10:33:06	OM_1-5-2010_09-54-02
243679001	937905	1	axc2	1/5/2010 10:34:55	OM_1-5-2010_09-54-02
1202007019	937905	1	axc2	1/5/2010 10:35:48	OM_1-5-2010_09-54-02
243680001	937905	1	axc2	1/5/2010 10:36:41	OM_1-5-2010_09-54-02
243681001	937905	1	axc2	1/5/2010 10:37:33	OM_1-5-2010_09-54-02
243723001	937905	1	axc2	1/5/2010 10:38:25	OM_1-5-2010_09-54-02
CCV		1	axc2	1/5/2010 10:39:18	OM_1-5-2010_09-54-02
CCB		1	axc2	1/5/2010 10:41:09	OM_1-5-2010_09-54-02

Original Run Filename: OM_1-5-2010_09-54-02.OMN created 1/5/2010 09:54:02
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-5-2010_09-54-02.OMN last modified 1/5/2010 10:42:13
 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)				
WCN100105-01	1	S1	200	7.38	1/5/2010@09:57:24			200 ppb
WCN100105-02	1	S2	150	5.60	1/5/2010@09:58:16			150 ppb
WCN100105-03	1	S3	100	3.59	1/5/2010@09:59:08			100 ppb
WCN100105-04	1	S4	50.0	1.96	1/5/2010@10:00:01			50 ppb
WCN100105-05	1	S5	10.0	0.446	1/5/2010@10:00:55			10 ppb
WCN100105-06	1	S6	5.00	0.284	1/5/2010@10:01:48			CRDL 5.0 ppb
WCN100105-08	1	S7	0.00	0.0165	1/5/2010@10:02:43			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99970 > 0.99500					
Message			Pass					
Action			Continue					
WCN100105-07	1	S8	139	5.13	1/5/2010@10:04:33			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-7.5 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-7.5 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100105-08	1	S7	-1.15	0.0224	1/5/2010@10:06:23			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.15 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.15 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100105-06	1	S6	5.54	0.267	1/5/2010@10:08:13			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.54 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.54 > 2.50					
Message			Pass					
Action			None					
1202007819|938324|MB	1	1	-1.35	0.0149	1/5/2010@10:10:02			
1202007820||LCS	1	2	31.2	1.21	1/5/2010@10:10:56		25.00	
1202007821||LCSD	1	3	35.5	1.36	1/5/2010@10:11:49		25.00	
243711001	1	4	8.52	0.376	1/5/2010@10:12:42			
243711002	1	5	0.350	0.0772	1/5/2010@10:13:35			
243711003	1	6	10.3	0.440	1/5/2010@10:14:28			
243711004	1	7	12.6	0.524	1/5/2010@10:15:21			
243711005	1	8	11.3	0.476	1/5/2010@10:16:13			
243711006	1	9	13.0	0.539	1/5/2010@10:17:06			
243711007	1	10	7.86	0.352	1/5/2010@10:17:58			
WCN100105-03	1	S3	104	3.85	1/5/2010@10:18:50			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.7 < 10.0					

			Message	CCV Passed					
			Action	Continue					
DQM Test: < - Percent Relative Difference									
			Result:	3.7 < 10.0					
			Message	CCV Passed					
			Action	Continue					
WCN100105-08	1	S7		-0.915	0.0310	1/5/2010@10:20:40			CCB
			Known Conc:	0.00					
DQM Test: > + Concentration Limit									
			Result:	-0.915 < 5.00					
			Message	CCB Passed					
			Action	Continue					
DQM Test: < - Concentration Limit									
			Result:	-0.915 > -5.00					
			Message	CCB Passed					
			Action	Continue					
243711008	1	11		7.10	0.324	1/5/2010@10:22:29			
243711009	1	12		8.34	0.369	1/5/2010@10:23:21			
243711010	1	13		11.6	0.488	1/5/2010@10:24:13			
243712001	1	14		13.1	0.542	1/5/2010@10:25:05			
243712002	1	15		1.36	0.114	1/5/2010@10:25:56			
243714001	1	16		13.7	0.567	1/5/2010@10:26:50			
243714002	1	17		12.7	0.529	1/5/2010@10:27:44			
243714003	1	18		11.8	0.496	1/5/2010@10:28:37			
1202007018|937905|MB	1	19		-0.688	0.0393	1/5/2010@10:29:31			
1202007020|LCS	1	20		96.2	3.58	1/5/2010@10:30:24		250.00	
WCN100105-03	1	S3		105	3.89	1/5/2010@10:31:16			CCV
			Known Conc:	100					
DQM Test: > + Percent Relative Difference									
			Result:	4.7 < 10.0					
			Message	CCV Passed					
			Action	Continue					
DQM Test: < - Percent Relative Difference									
			Result:	4.7 < 10.0					
			Message	CCV Passed					
			Action	Continue					
WCN100105-08	1	S7		-1.74	8.27e-4	1/5/2010@10:33:06			CCB
			Known Conc:	0.00					
DQM Test: > + Concentration Limit									
			Result:	-1.74 < 5.00					
			Message	CCB Passed					
			Action	Continue					
DQM Test: < - Concentration Limit									
			Result:	-1.74 > -5.00					
			Message	CCB Passed					
			Action	Continue					
243679001	1	21		-1.27	0.0180	1/5/2010@10:34:55			
1202007019|DUP	1	22		-1.57	0.00689	1/5/2010@10:35:48			
243680001	1	23		-1.55	0.00793	1/5/2010@10:36:41			
243681001	1	24		0.766	0.0924	1/5/2010@10:37:33			
243723001	1	25		-0.360	0.0513	1/5/2010@10:38:25			
WCN100105-03	1	S3		106	3.94	1/5/2010@10:39:18			CCV
			Known Conc:	100					
DQM Test: > + Percent Relative Difference									
			Result:	6.1 < 10.0					
			Message	CCV Passed					
			Action	Continue					
DQM Test: < - Percent Relative Difference									
			Result:	6.1 < 10.0					
			Message	CCV Passed					
			Action	Continue					
WCN100105-08	1	S7		-1.77	-2.03e-4	1/5/2010@10:41:09			CCB
			Known Conc:	0.00					
DQM Test: > + Concentration Limit									
			Result:	-1.77 < 5.00					
			Message	CCB Passed					
			Action	Continue					
DQM Test: < - Concentration Limit									

Result:	-1.77 > -5.00					
Message	CCB Passed					
Action	Continue					

Analyte Properties Table for OM_1-5-2010_09-54-02.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

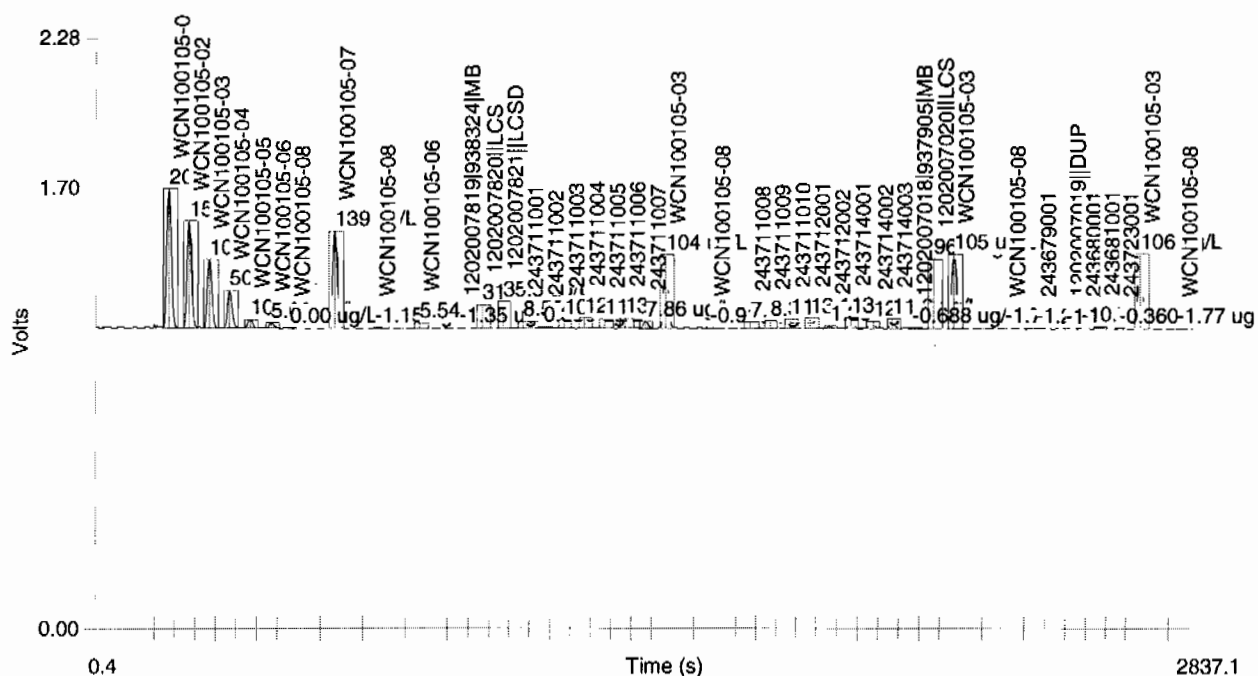
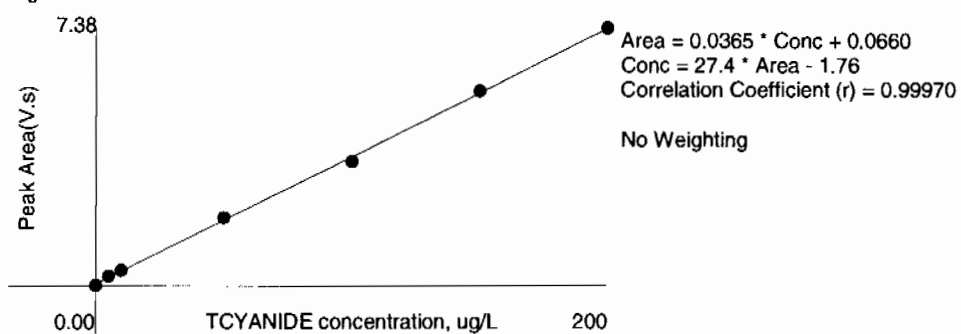


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	7.38	0.540	-0.1	1/5/2010	09:58:27
2	150	1	5.60	0.412	-1.0	1/5/2010	09:59:19
3	100	1	3.59	0.264	3.6	1/5/2010	10:00:11
4	50.0	1	1.96	0.144	-3.7	1/5/2010	10:01:04
5	10.0	1	0.446	0.0322	-3.4	1/5/2010	10:01:58
6	5.00	1	0.284	0.0191	-14.4	1/5/2010	10:02:51
7	0.00	1	0.0165	0.00115		1/5/2010	10:03:46

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	1/5/2010 12:32:54	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010 12:34:44	OM_1-5-2010_12-29-33
1202006248	937569	1	axc2	1/5/2010 12:36:34	OM_1-5-2010_12-29-33
1202006249	937569	25	axc2	1/5/2010 12:37:27	OM_1-5-2010_12-29-33
243623001	937569	1	axc2	1/5/2010 12:38:20	OM_1-5-2010_12-29-33
1202006250	937569	1	axc2	1/5/2010 12:39:14	OM_1-5-2010_12-29-33
1202006251	937569	1	axc2	1/5/2010 12:40:06	OM_1-5-2010_12-29-33
1202006255	937569	1	axc2	1/5/2010 12:40:59	OM_1-5-2010_12-29-33
243623002	937569	1	axc2	1/5/2010 12:41:52	OM_1-5-2010_12-29-33
1202006252	937569	1	axc2	1/5/2010 12:42:45	OM_1-5-2010_12-29-33
1202006253*	937569	1	axc2	1/5/2010 12:43:37	OM_1-5-2010_12-29-33
1202006254	937569	1	axc2	1/5/2010 12:44:29	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010 12:45:22	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010 12:47:11	OM_1-5-2010_12-29-33
1202006253	937569	1	axc2	1/5/2010 12:49:00	OM_1-5-2010_12-29-33
243623003	937569	1	axc2	1/5/2010 12:49:52	OM_1-5-2010_12-29-33
243623004	937569	1	axc2	1/5/2010 12:50:44	OM_1-5-2010_12-29-33
243623005	937569	1	axc2	1/5/2010 12:51:36	OM_1-5-2010_12-29-33
243623006	937569	1	axc2	1/5/2010 12:52:28	OM_1-5-2010_12-29-33
243623007	937569	1	axc2	1/5/2010 12:53:19	OM_1-5-2010_12-29-33
243623008	937569	1	axc2	1/5/2010 12:54:13	OM_1-5-2010_12-29-33
243623009	937569	1	axc2	1/5/2010 12:55:06	OM_1-5-2010_12-29-33
243626001	937569	1	axc2	1/5/2010 12:56:00	OM_1-5-2010_12-29-33
243626002	937569	1	axc2	1/5/2010 12:56:53	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010 12:57:45	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010 12:59:36	OM_1-5-2010_12-29-33
243626003	937569	1	axc2	1/5/2010 13:01:25	OM_1-5-2010_12-29-33
243626004	937569	1	axc2	1/5/2010 13:02:18	OM_1-5-2010_12-29-33
243626005	937569	1	axc2	1/5/2010 13:03:11	OM_1-5-2010_12-29-33
243626006	937569	1	axc2	1/5/2010 13:04:04	OM_1-5-2010_12-29-33
243626007	937569	1	axc2	1/5/2010 13:04:56	OM_1-5-2010_12-29-33
243626008	937569	1	axc2	1/5/2010 13:05:48	OM_1-5-2010_12-29-33
243626009	937569	1	axc2	1/5/2010 13:06:41	OM_1-5-2010_12-29-33
243626010	937569	1	axc2	1/5/2010 13:07:33	OM_1-5-2010_12-29-33
243626011	937569	1	axc2	1/5/2010 13:08:25	OM_1-5-2010_12-29-33
1202007538*	938216	1	axc2	1/5/2010 13:09:17	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010 13:10:09	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010 13:12:00	OM_1-5-2010_12-29-33
1202007545	938216	1	axc2	1/5/2010 13:13:48	OM_1-5-2010_12-29-33
243724003	938216	1	axc2	1/5/2010 13:14:42	OM_1-5-2010_12-29-33
1202007540	938216	1	axc2	1/5/2010 13:15:35	OM_1-5-2010_12-29-33
1202007542	938216	1	axc2	1/5/2010 13:16:29	OM_1-5-2010_12-29-33
1202007544	938216	1	axc2	1/5/2010 13:17:22	OM_1-5-2010_12-29-33
1202007538	938216	1	axc2	1/5/2010 13:18:14	OM_1-5-2010_12-29-33
1202006256	937572	1	axc2	1/5/2010 13:19:08	OM_1-5-2010_12-29-33
1202006263	937572	25	axc2	1/5/2010 13:20:01	OM_1-5-2010_12-29-33
243550014	937572	1	axc2	1/5/2010 13:20:54	OM_1-5-2010_12-29-33
243550015	937572	1	axc2	1/5/2010 13:21:47	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010 13:22:39	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010 13:24:29	OM_1-5-2010_12-29-33
243628001	937572	1	axc2	1/5/2010 13:26:19	OM_1-5-2010_12-29-33
1202006257	937572	1	axc2	1/5/2010 13:27:11	OM_1-5-2010_12-29-33
1202006259	937572	1	axc2	1/5/2010 13:28:04	OM_1-5-2010_12-29-33
1202006261	937572	1	axc2	1/5/2010 13:28:56	OM_1-5-2010_12-29-33
243628002	937572	1	axc2	1/5/2010 13:29:48	OM_1-5-2010_12-29-33
1202006258	937572	1	axc2	1/5/2010 13:30:40	OM_1-5-2010_12-29-33
1202006260	937572	1	axc2	1/5/2010 13:31:32	OM_1-5-2010_12-29-33
1202006262	937572	1	axc2	1/5/2010 13:32:27	OM_1-5-2010_12-29-33

243628003	937572	1	axc2	1/5/2010	13:33:21	OM_1-5-2010_12-29-33
243628004	937572	1	axc2	1/5/2010	13:34:14	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010	13:35:07	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010	13:36:58	OM_1-5-2010_12-29-33
243628005	937572	1	axc2	1/5/2010	13:38:47	OM_1-5-2010_12-29-33
243628006	937572	1	axc2	1/5/2010	13:39:40	OM_1-5-2010_12-29-33
243628007	937572	1	axc2	1/5/2010	13:40:34	OM_1-5-2010_12-29-33
243628008	937572	1	axc2	1/5/2010	13:41:27	OM_1-5-2010_12-29-33
243628009	937572	1	axc2	1/5/2010	13:42:20	OM_1-5-2010_12-29-33
243628010	937572	1	axc2	1/5/2010	13:43:13	OM_1-5-2010_12-29-33
243628011	937572	1	axc2	1/5/2010	13:44:06	OM_1-5-2010_12-29-33
243675001	937572	1	axc2	1/5/2010	13:44:58	OM_1-5-2010_12-29-33
243687001	937572	1	axc2	1/5/2010	13:45:50	OM_1-5-2010_12-29-33
243708001	937572	1	axc2	1/5/2010	13:46:43	OM_1-5-2010_12-29-33
CCV		1	axc2	1/5/2010	13:47:35	OM_1-5-2010_12-29-33
CCB		1	axc2	1/5/2010	13:49:25	OM_1-5-2010_12-29-33

Original Run Filename: OM_1-5-2010_12-29-33.OMN created 1/5/2010 12:29:33
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-5-2010_12-29-33.OMN last modified 1/5/2010 13:50:31
 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)				
WCN100105-03	1	S3	99.9	3.72	1/5/2010@12:32:54			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100105-08	1	S7	-1.58	0.00675	1/5/2010@12:34:44			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.58 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.58 > -5.00					
Message			CCB Passed					
Action			Continue					
1202006248|937569|MB	1	1	-1.68	0.00288	1/5/2010@12:36:34			
1202006249|LCS	1	2	28.9	1.12	1/5/2010@12:37:27		25.00	
243623001	1	3	0.0538	0.0664	1/5/2010@12:38:20			
1202006250|DUP	1	4	0.436	0.0804	1/5/2010@12:39:14			
1202006251|MS	1	5	93.9	3.50	1/5/2010@12:40:06			
1202006255|MSD	1	6	77.9	2.91	1/5/2010@12:40:59			
243623002	1	7	0.0244	0.0653	1/5/2010@12:41:52			
1202006252|DUP	1	8	0.124	0.0690	1/5/2010@12:42:45			
1202006253|MS	1	9	35.6	1.36	1/5/2010@12:43:37			
1202006254|MSD	1	10	70.6	2.64	1/5/2010@12:44:29			
WCN100105-03	1	S3	104	3.87	1/5/2010@12:45:22			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100105-08	1	S7	-0.951	0.0297	1/5/2010@12:47:11			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.951 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.951 > -5.00					
Message			CCB Passed					
Action			Continue					
1202006253|MS	1	9	71.2	2.67	1/5/2010@12:49:00			
243623003	1	11	0.853	0.0956	1/5/2010@12:49:52			
243623004	1	12	0.353	0.0773	1/5/2010@12:50:44			
243623005	1	13	-0.724	0.0379	1/5/2010@12:51:36			
243623006	1	14	0.685	0.0895	1/5/2010@12:52:28			

243623007	1	15	0.141	0.0696	1/5/2010@12:53:19		
243623008	1	16	-0.318	0.0528	1/5/2010@12:54:13		
243623009	1	17	-1.07	0.0254	1/5/2010@12:55:06		
243626001	1	18	0.662	0.0886	1/5/2010@12:56:00		
243626002	1	19	0.367	0.0778	1/5/2010@12:56:53		
WCN100105-03	1	S3	106	3.93	1/5/2010@12:57:45		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			5.7 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			5.7 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100105-08	1	S7	-1.20	0.0205	1/5/2010@12:59:36		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.20 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.20 > -5.00				
Message			CCB Passed				
Action			Continue				
243626003	1	20	0.240	0.0732	1/5/2010@13:01:25		
243626004	1	21	0.579	0.0856	1/5/2010@13:02:18		
243626005	1	22	1.08	0.104	1/5/2010@13:03:11		
243626006	1	23	1.01	0.101	1/5/2010@13:04:04		
243626007	1	24	0.996	0.101	1/5/2010@13:04:56		
243626008	1	25	0.305	0.0756	1/5/2010@13:05:48		
243626009	1	26	1.80	0.130	1/5/2010@13:06:41		
243626010	1	27	0.541	0.0842	1/5/2010@13:07:33		
243626011	1	28	0.0326	0.0656	1/5/2010@13:08:25		
1202007538|938216|MB	1	29	37.2	1.43	1/5/2010@13:09:17		
WCN100105-03	1	S3	106	3.95	1/5/2010@13:10:09		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				
WCN100105-08	1	S7	-0.936	0.0302	1/5/2010@13:12:00		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.936 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.936 > -5.00				
Message			CCB Passed				
Action			Continue				
1202007545|LCS	1	30	54.3	2.05	1/5/2010@13:13:48		
243724003	1	31	-0.655	0.0405	1/5/2010@13:14:42		
1202007540|DUP	1	32	-1.43	0.0120	1/5/2010@13:15:35		
1202007542|MS	1	33	109	4.03	1/5/2010@13:16:29		
1202007544|MSD	1	34	113	4.21	1/5/2010@13:17:22		
1202007538|938216|MB	1	29	-1.01	0.0274	1/5/2010@13:18:14		
1202006256|937572|MB	1	35	-1.53	0.00850	1/5/2010@13:19:08		
1202006263|LCS	1	36	29.2	1.13	1/5/2010@13:20:01	25.00	
243550014	1	37	-0.709	0.0385	1/5/2010@13:20:54		
243550015	1	38	0.231	0.0729	1/5/2010@13:21:47		
WCN100105-03	1	S3	104	3.87	1/5/2010@13:22:39		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							

Result: 4.1 < 10.0						
Message CCV Passed						
Action Continue						
DQM Test: < - Percent Relative Difference						
Result: 4.1 < 10.0						
Message CCV Passed						
Action Continue						
WCN100105-08	1	S7	-1.26	0.0183	1/5/2010@13:24:29	CCB
Known Conc: 0.00						
DQM Test: > + Concentration Limit						
Result: -1.26 < 5.00						
Message CCB Passed						
Action Continue						
DQM Test: < - Concentration Limit						
Result: -1.26 > -5.00						
Message CCB Passed						
Action Continue						
243628001	1	39	-0.401	0.0498	1/5/2010@13:26:19	
1202006257||DUP	1	40	-0.598	0.0426	1/5/2010@13:27:11	
1202006259||MS	1	41	106	3.95	1/5/2010@13:28:04	
1202006261||MSD	1	42	106	3.92	1/5/2010@13:28:56	
243628002	1	43	4.02	0.211	1/5/2010@13:29:48	
1202006258||DUP	1	44	2.13	0.142	1/5/2010@13:30:40	
1202006260||MS	1	45	105	3.89	1/5/2010@13:31:32	
1202006262||MSD	1	46	94.4	3.51	1/5/2010@13:32:27	
243628003	1	47	0.854	0.0956	1/5/2010@13:33:21	
243628004	1	48	-0.356	0.0514	1/5/2010@13:34:14	
WCN100105-03	1	S3	106	3.94	1/5/2010@13:35:07	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						
WCN100105-08	1	S7	-1.75	2.92e-4	1/5/2010@13:36:58	CCB
Known Conc: 0.00						
DQM Test: > + Concentration Limit						
Result: -1.75 < 5.00						
Message CCB Passed						
Action Continue						
DQM Test: < - Concentration Limit						
Result: -1.75 > -5.00						
Message CCB Passed						
Action Continue						
243628005	1	49	0.894	0.0971	1/5/2010@13:38:47	
243628006	1	50	-0.0214	0.0636	1/5/2010@13:39:40	
243628007	1	51	2.04	0.139	1/5/2010@13:40:34	
243628008	1	52	0.0864	0.0676	1/5/2010@13:41:27	
243628009	1	53	0.258	0.0738	1/5/2010@13:42:20	
243628010	1	54	0.506	0.0829	1/5/2010@13:43:13	
243628011	1	55	0.430	0.0801	1/5/2010@13:44:06	
243675001	1	56	0.885	0.0968	1/5/2010@13:44:58	
243687001	1	57	-0.113	0.0603	1/5/2010@13:45:50	
243708001	1	58	-1.36	0.0147	1/5/2010@13:46:43	
WCN100105-03	1	S3	107	3.96	1/5/2010@13:47:35	CCV
Known Conc: 100						
DQM Test: > + Percent Relative Difference						
Result: 6.5 < 10.0						
Message CCV Passed						
Action Continue						
DQM Test: < - Percent Relative Difference						
Result: 6.5 < 10.0						
Message CCV Passed						
Action Continue						
WCN100105-08	1	S7	-1.32	0.0161	1/5/2010@13:49:25	CCB

Known Conc:	0.00					
DQM Test: > + Concentration Limit						
Result:	-1.32 < 5.00					
Message	CCB Passed					
Action	Continue					
DQM Test: < - Concentration Limit						
Result:	-1.32 > -5.00					
Message	CCB Passed					
Action	Continue					

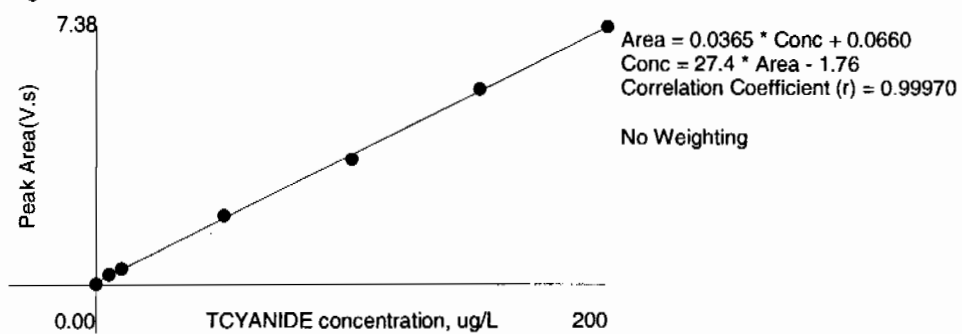
Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

[illegible]

Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	7.38	0.540	-0.1	1/5/2010	09:58:27
2	150	1	5.60	0.412	-1.0	1/5/2010	09:59:19
3	100	1	3.59	0.264	3.6	1/5/2010	10:00:11
4	50.0	1	1.96	0.144	-3.7	1/5/2010	10:01:04
5	10.0	1	0.446	0.0322	-3.4	1/5/2010	10:01:58
6	5.00	1	0.284	0.0191	-14.4	1/5/2010	10:02:51
7	0.00	1	0.0165	0.00115		1/5/2010	10:03:46

Figure 1: TCYANIDE



Miscellaneous

COMPANY - WIDE NONCONFORMANCE REPORT

Mo. Day Yr. 05-JAN-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LACHAT Flow Injection Analyzer	Test / Method: SW846 9012A	Matrix Type: Solid	Client Code: LANL
Batch ID: 937569	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 243623(10-1099-1), 243626(10-1101)			
Application Issues: Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD Failed Recovery for MSD/PSD			
Specification and Requirements		NRG Disposition:	
Nonconformance Description:			
<p>1. Failed RPD for MS/MSD:</p> <p>QC 1202006251MS QC 1202006255MSD</p> <p>2. Failed Recovery for MS/MSD:</p> <p>QC 1202006253MS QC 1202006254MSD</p>		<p>1. The relative percent difference (RPD) between the Spike and Spike Duplicate was outside of the required acceptance limits due to the heterogeneous matrix of the sample (solid sample).</p> <p>2. 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.</p>	

Originator's Name:

Ashley Earl

05-JAN-10

Data Validator/Group Leader:

Elzbieta Szulc

08-JAN-10

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1101-1**

Method/Analysis Information

Product: Cyanide, Total
Analytical Batch: 937245 **Method:** SW846 9012A
Prep Batch : 937244 **Method:** SW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
243627001	RE12-10-7860
1202005554	Method Blank (MB)
1202005555	243608001(RE16-10-372) Sample Duplicate (DUP)
1202005556	243608001(RE16-10-372) Matrix Spike (MS)
1202005557	243608001(RE16-10-372) Matrix Spike Duplicate (MSD)
1202005558	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem FIA+ 8000 Series.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following sample was selected for QC analysis: 243608001 (RE16-10-372).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovery for this sample set was within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202005555 (RE16-10-372).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The following sample was re-analyzed due to instrument failure: 1202005558 (LCS).

Miscellaneous Information

Nonconformance (NCR) Documentation

An NCR 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

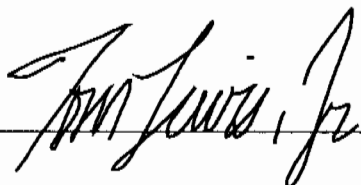
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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: _____

22Jan10

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: 10-1101-1 GEL Work Order: 243627

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

A handwritten signature in black ink, appearing to read "Tom Lewis, Jr.", is written over a horizontal line.

GEL LABORATORIES LLC

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: January 6, 2010

Client SDG: 10-1101-1

Client Sample ID: RE12-10-7860
Sample ID: 243627001
Matrix: W
Collect Date: 22-DEC-09 12:00
Receive Date: 29-DEC-09
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/04/10	1048	937245	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	12/31/09	1507	937244

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: January 6, 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: 243627

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	937245										
QC1202005555	243608001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	01/04/10	10:45
QC1202005558	LCS										
Cyanide, Total	50.0				45.4	ug/L	90.8	(90%-110%)		01/04/10	10:54
QC1202005554	MB										
Cyanide, Total			U		5.00	ug/L				01/04/10	10:42
QC1202005556	243608001	MS									
Cyanide, Total	100	U	ND		94.9	ug/L	94.9	(60%-127%)		01/04/10	10:46
QC1202005557	243608001	MSD									
Cyanide, Total	100	U	ND		100	ug/L	5.23	100	(0%-20%)	01/04/10	10:47

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 Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GEL LABORATORIES LLC

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

QC Summary

Workorder: 243627

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 06-JAN-2010 08:56

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1101-1

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	04-JAN-2010 10:36:47	OM_1-4-2010_10-26-17	137	150	91	(90%-110%)	Yes
CCV	04-JAN-2010 10:51:04	OM_1-4-2010_10-26-17	109	100	109	(90%-110%)	Yes
CCV	04-JAN-2010 11:03:30	OM_1-4-2010_10-26-17	103	100	103	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	04-JAN-2010 10:38:37	OM_1-4-2010_10-26-17	-3.1	5	Yes
CCB	04-JAN-2010 10:52:55	OM_1-4-2010_10-26-17	-2.04	5	Yes
CCB	04-JAN-2010 11:05:20	OM_1-4-2010_10-26-17	-2.7	5	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5 Verified by: _____

Batch: 937244

Lab SOP: GL-GC-E-067 REV# 13

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202005558	URF1184831-02	.0125	mL
MS	1202005556	URF1184831-02	.025	mL
MS	1202006218	URF1184831-02	.025	mL
MSD	1202005557	URF1184831-02	.025	mL
MSD	1202006219	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202005554		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
LCS	1202005558		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243585002		EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	243608001		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
DUP	1202005555	243608001	SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
MS	1202005556	243608001	SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
MSD	1202005557	243608001	SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243627001		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243629001		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243631001		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243632001		SW846 9010B Prep	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243633001		EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243633002		EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243633006		EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
DUP	1202006217	243633006	EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
MS	1202006218	243633006	EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
MSD	1202006219	243633006	EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER
SAMPLE	243633009		EPA 335.4	31-DEC-2009 15:07	>12	25 mL	25 mL	1	WATER

Comments

Reagent/Solvent Lot ID	Amount	Description
091211-C	25 mL	0.25N Sodium Hydroxide Solution
WCN091231-07	.0375 mL	150 ppb CN Distilled ICV Standard
1176724-C	1.25 mL	0.8N H3NO3S
1238146-C	2.5 mL	50% H2SO4 CN Prep
1176778-C	1 mL	51% MgCl2 Soln
1238142-C	1.25 mL	Bismuth Nitrate Solution

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/4/2010 10:29:37	OM_1-4-2010_10-26-17
150 ppb		1	axc2	1/4/2010 10:30:29	OM_1-4-2010_10-26-17
100 ppb		1	axc2	1/4/2010 10:31:22	OM_1-4-2010_10-26-17
50 ppb		1	axc2	1/4/2010 10:32:15	OM_1-4-2010_10-26-17
10 ppb		1	axc2	1/4/2010 10:33:08	OM_1-4-2010_10-26-17
CRDL 5.0 ppb		1	axc2	1/4/2010 10:34:02	OM_1-4-2010_10-26-17
ICAL-00		1	axc2	1/4/2010 10:34:56	OM_1-4-2010_10-26-17
ICV		1	axc2	1/4/2010 10:36:47	OM_1-4-2010_10-26-17
ICB		1	axc2	1/4/2010 10:38:37	OM_1-4-2010_10-26-17
CRDL		1	axc2	1/4/2010 10:40:27	OM_1-4-2010_10-26-17
1202005554	937245	1	axc2	1/4/2010 10:42:17	OM_1-4-2010_10-26-17
1202005558*	937245	1	axc2	1/4/2010 10:43:10	OM_1-4-2010_10-26-17
243585002	937245	1	axc2	1/4/2010 10:44:03	OM_1-4-2010_10-26-17
243608001	937245	1	axc2	1/4/2010 10:44:56	OM_1-4-2010_10-26-17
1202005555	937245	1	axc2	1/4/2010 10:45:49	OM_1-4-2010_10-26-17
1202005556	937245	1	axc2	1/4/2010 10:46:42	OM_1-4-2010_10-26-17
1202005557	937245	1	axc2	1/4/2010 10:47:34	OM_1-4-2010_10-26-17
243627001	937245	1	axc2	1/4/2010 10:48:27	OM_1-4-2010_10-26-17
243629001	937245	1	axc2	1/4/2010 10:49:19	OM_1-4-2010_10-26-17
243631001	937245	1	axc2	1/4/2010 10:50:12	OM_1-4-2010_10-26-17
CCV		1	axc2	1/4/2010 10:51:04	OM_1-4-2010_10-26-17
CCB		1	axc2	1/4/2010 10:52:55	OM_1-4-2010_10-26-17
1202005558	937245	1	axc2	1/4/2010 10:54:44	OM_1-4-2010_10-26-17
243632001	937245	1	axc2	1/4/2010 10:55:36	OM_1-4-2010_10-26-17
243633001	937245	1	axc2	1/4/2010 10:56:28	OM_1-4-2010_10-26-17
243633002	937245	1	axc2	1/4/2010 10:57:20	OM_1-4-2010_10-26-17
243633006	937245	1	axc2	1/4/2010 10:58:12	OM_1-4-2010_10-26-17
1202006217	937245	1	axc2	1/4/2010 10:59:04	OM_1-4-2010_10-26-17
1202006218	937245	1	axc2	1/4/2010 10:59:57	OM_1-4-2010_10-26-17
1202006219	937245	1	axc2	1/4/2010 11:00:51	OM_1-4-2010_10-26-17
243633009	937245	1	axc2	1/4/2010 11:01:44	OM_1-4-2010_10-26-17
1202004497	936843	1	axc2	1/4/2010 11:02:37	OM_1-4-2010_10-26-17
CCV		1	axc2	1/4/2010 11:03:30	OM_1-4-2010_10-26-17
CCB		1	axc2	1/4/2010 11:05:20	OM_1-4-2010_10-26-17
1202004504	936843	25	axc2	1/4/2010 11:07:10	OM_1-4-2010_10-26-17
243517008	936843	1	axc2	1/4/2010 11:08:03	OM_1-4-2010_10-26-17
1202004498	936843	1	axc2	1/4/2010 11:08:56	OM_1-4-2010_10-26-17
1202004500	936843	1	axc2	1/4/2010 11:09:48	OM_1-4-2010_10-26-17
1202004502	936843	1	axc2	1/4/2010 11:10:41	OM_1-4-2010_10-26-17
243517009	936843	1	axc2	1/4/2010 11:11:34	OM_1-4-2010_10-26-17
1202004499	936843	1	axc2	1/4/2010 11:12:26	OM_1-4-2010_10-26-17
1202004501	936843	1	axc2	1/4/2010 11:13:18	OM_1-4-2010_10-26-17
1202004503	936843	1	axc2	1/4/2010 11:14:10	OM_1-4-2010_10-26-17
243521001	936843	1	axc2	1/4/2010 11:15:02	OM_1-4-2010_10-26-17
CCV		1	axc2	1/4/2010 11:15:55	OM_1-4-2010_10-26-17
CCB		1	axc2	1/4/2010 11:17:45	OM_1-4-2010_10-26-17
243521002	936843	1	axc2	1/4/2010 11:19:33	OM_1-4-2010_10-26-17
243521003	936843	1	axc2	1/4/2010 11:20:27	OM_1-4-2010_10-26-17
243521004	936843	1	axc2	1/4/2010 11:21:21	OM_1-4-2010_10-26-17
243521005	936843	1	axc2	1/4/2010 11:22:14	OM_1-4-2010_10-26-17
243521006	936843	1	axc2	1/4/2010 11:23:08	OM_1-4-2010_10-26-17
243521007	936843	1	axc2	1/4/2010 11:24:01	OM_1-4-2010_10-26-17
243521008	936843	1	axc2	1/4/2010 11:24:54	OM_1-4-2010_10-26-17
243521009	936843	1	axc2	1/4/2010 11:25:47	OM_1-4-2010_10-26-17
243521010	936843	1	axc2	1/4/2010 11:26:40	OM_1-4-2010_10-26-17
243521011	936843	1	axc2	1/4/2010 11:27:33	OM_1-4-2010_10-26-17
CCV		1	axc2	1/4/2010 11:28:25	OM_1-4-2010_10-26-17
CCB		1	axc2	1/4/2010 11:30:15	OM_1-4-2010_10-26-17

243547002	936843	1	axc2	1/4/2010	11:32:04	OM_1-4-2010_10-26-17
243547003	936843	1	axc2	1/4/2010	11:32:56	OM_1-4-2010_10-26-17
243549002	936843	1	axc2	1/4/2010	11:33:49	OM_1-4-2010_10-26-17
243550001	936843	1	axc2	1/4/2010	11:34:41	OM_1-4-2010_10-26-17
243550002	936843	1	axc2	1/4/2010	11:35:33	OM_1-4-2010_10-26-17
243550003	936843	1	axc2	1/4/2010	11:36:25	OM_1-4-2010_10-26-17
243550004	936843	1	axc2	1/4/2010	11:37:19	OM_1-4-2010_10-26-17
CCV		1	axc2	1/4/2010	11:38:11	OM_1-4-2010_10-26-17
CCB		1	axc2	1/4/2010	11:40:02	OM_1-4-2010_10-26-17

Original Run Filename: OM_1-4-2010_10-26-17.OMN created 1/4/2010 10:26:17
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-4-2010_10-26-17.OMN last modified 1/4/2010 11:41:07
 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)				
WCN100104-01	1	S1	200	7.63	1/4/2010@10:29:37			200 ppb
WCN100104-02	1	S2	150	5.81	1/4/2010@10:30:29			150 ppb
WCN100104-03	1	S3	100	3.99	1/4/2010@10:31:22			100 ppb
WCN100104-04	1	S4	50.0	2.09	1/4/2010@10:32:15			50 ppb
WCN100104-05	1	S5	10.0	0.463	1/4/2010@10:33:08			10 ppb
WCN100104-06	1	S6	5.00	0.277	1/4/2010@10:34:02			CRDL 5.0 ppb
WCN100104-08	1	S7	0.00	0.0108	1/4/2010@10:34:56			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99973 > 0.99500					
Message			Pass					
Action			Continue					
WCN100104-07	1	S8	137	5.30	1/4/2010@10:36:47			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-8.9 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-8.9 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100104-08	1	S7	-3.10	-0.0205	1/4/2010@10:38:37			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-3.10 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-3.10 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100104-06	1	S6	5.20	0.295	1/4/2010@10:40:27			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.20 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.20 > 2.50					
Message			Pass					
Action			None					
1202005554|937245|MB	1	1	-1.46	0.0418	1/4/2010@10:42:17			
1202005558|LCS	1	2	44.5	1.79	1/4/2010@10:43:10			
243585002	1	3	-0.484	0.0790	1/4/2010@10:44:03			
243608001	1	4	-2.24	0.0123	1/4/2010@10:44:56			
1202005555|DUP	1	5	-1.58	0.0374	1/4/2010@10:45:49			
1202005556|MS	1	6	94.9	3.71	1/4/2010@10:46:42			
1202005557|MSD	1	7	100	3.91	1/4/2010@10:47:34			
243627001	1	8	-1.51	0.0399	1/4/2010@10:48:27			
243629001	1	9	-1.99	0.0217	1/4/2010@10:49:19			
243631001	1	10	-2.35	0.00803	1/4/2010@10:50:12			
WCN100104-03	1	S3	109	4.23	1/4/2010@10:51:04			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			8.6 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	8.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100104-08	1	S7	-2.04	0.0199	1/4/2010@10:52:55			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-2.04 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-2.04 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202005558|LCS	1	2	45.4	1.83	1/4/2010@10:54:44			
243632001	1	11	-1.49	0.0405	1/4/2010@10:55:36			
243633001	1	12	-1.66	0.0344	1/4/2010@10:56:28			
243633002	1	13	-1.45	0.0422	1/4/2010@10:57:20			
243633006	1	14	-2.75	-0.00712	1/4/2010@10:58:12			
1202006217|DUP	1	15	-1.99	0.0215	1/4/2010@10:59:04			
1202006218|MS	1	16	96.0	3.75	1/4/2010@10:59:57			
1202006219|MSD	1	17	100	3.91	1/4/2010@11:00:51			
243633009	1	18	-1.26	0.0496	1/4/2010@11:01:44			
1202004497|936843|MB	1	19	-1.90	0.0251	1/4/2010@11:02:37			
WCN100104-03	1	S3	103	4.01	1/4/2010@11:03:30			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	2.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	2.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100104-08	1	S7	-2.70	-0.00550	1/4/2010@11:05:20			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-2.70 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-2.70 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202004504|LCS	1	20	30.2	1.25	1/4/2010@11:07:10		25.00	
243517008	1	21	-0.543	0.0767	1/4/2010@11:08:03			
1202004498|DUP	1	22	0.103	0.101	1/4/2010@11:08:56			
1202004500|MS	1	23	91.7	3.59	1/4/2010@11:09:48			
1202004502|MSD	1	24	92.4	3.61	1/4/2010@11:10:41			
243517009	1	25	0.220	0.106	1/4/2010@11:11:34			
1202004499|DUP	1	26	1.82	0.166	1/4/2010@11:12:26			
1202004501|MS	1	27	92.4	3.61	1/4/2010@11:13:18			
1202004503|MSD	1	28	79.5	3.12	1/4/2010@11:14:10			
243521001	1	29	-0.679	0.0715	1/4/2010@11:15:02			
WCN100104-03	1	S3	103	4.02	1/4/2010@11:15:55			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	3.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	3.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100104-08	1	S7	-1.79	0.0294	1/4/2010@11:17:45			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:		-1.79 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.79 > -5.00				
Message		CCB Passed				
Action		Continue				
243521002	1	30	-1.46	0.0420	1/4/2010@11:19:33	
243521003	1	31	-0.362	0.0836	1/4/2010@11:20:27	
243521004	1	32	1.22	0.144	1/4/2010@11:21:21	
243521005	1	33	-0.936	0.0618	1/4/2010@11:22:14	
243521006	1	34	3.33	0.224	1/4/2010@11:23:08	
243521007	1	35	-1.34	0.0463	1/4/2010@11:24:01	
243521008	1	36	-0.707	0.0705	1/4/2010@11:24:54	
243521009	1	37	-1.63	0.0352	1/4/2010@11:25:47	
243521010	1	38	0.857	0.130	1/4/2010@11:26:40	
243521011	1	39	-1.68	0.0334	1/4/2010@11:27:33	
WCN100104-03	1	S3	103	4.01	1/4/2010@11:28:25	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				
WCN100104-08	1	S7	-2.53	9.28e-4	1/4/2010@11:30:15	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-2.53 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-2.53 > -5.00				
Message		CCB Passed				
Action		Continue				
243547002	1	40	-1.86	0.0265	1/4/2010@11:32:04	
243547003	1	41	-1.82	0.0282	1/4/2010@11:32:56	
243549002	1	42	1.59	0.158	1/4/2010@11:33:49	
243550001	1	43	-1.68	0.0335	1/4/2010@11:34:41	
243550002	1	44	-1.41	0.0438	1/4/2010@11:35:33	
243550003	1	45	-1.87	0.0261	1/4/2010@11:36:25	
243550004	1	46	-1.49	0.0406	1/4/2010@11:37:19	
WCN100104-03	1	S3	104	4.04	1/4/2010@11:38:11	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		3.5 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		3.5 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100104-08	1	S7	-2.65	-0.00342	1/4/2010@11:40:02	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-2.65 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-2.65 > -5.00				
Message		CCB Passed				
Action		Continue				

Analyte Properties Table for OM_1-4-2010_10-26-17.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

Chromatogram showing detector response (Volts) versus Time (s). The plot displays numerous peaks, many labeled with sample IDs (e.g., WCN100104-01, WCN100104-02) and concentrations (e.g., 137 ug/L, 103 ug/L). The x-axis ranges from 0.4 to 443.8 seconds, and the y-axis ranges from 1.14 to 1.91 Volts.

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	7.63	0.565	0.9	1/4/2010	10:30:40
2	150	1	5.81	0.432	-0.2	1/4/2010	10:31:33
3	100	1	3.99	0.297	-2.2	1/4/2010	10:32:25
4	50.0	1	2.09	0.153	-4.6	1/4/2010	10:33:18
5	10.0	1	0.463	0.0341	3.3	1/4/2010	10:34:11
6	5.00	1	0.277	0.0211	4.2	1/4/2010	10:35:05
7	0.00	1	0.0108	7.90e-4		1/4/2010	10:35:59

Figure 1: TCYANIDE

