

Tuesday, January 12, 2010

LOS ALAMOS

NATIONAL LABORATORY

REQUEST NUMBER: 10-1226

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1226

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/12/2010

TURNAROUND/REPORT DUE: 2/11/2010

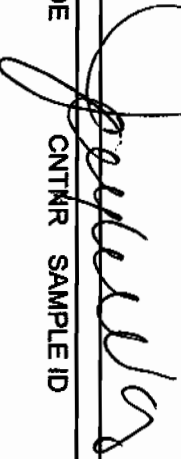
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020	1	1	RE12-10-7258	R	1/8/2010	
	1	1	RE12-10-7259	R	1/8/2010	
	1	1	RE12-10-7260	R	1/8/2010	
	1	1	RE12-10-7261	R	1/8/2010	
	1	1	RE12-10-7262	R	1/8/2010	
	1	1	RE12-10-7263	R	1/8/2010	
	1	1	RE12-10-7264	R	1/8/2010	
	1	1	RE12-10-7265	R	1/8/2010	
	1	1	RE12-10-7266	R	1/8/2010	

Tuesday, January 12, 2010

REQUEST NUMBER: 10-1226

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:7471A						
1		1	RE12-10-7263	R	1/8/2010	
1		1	RE12-10-7264	R	1/8/2010	
1		1	RE12-10-7265	R	1/8/2010	
1		1	RE12-10-7266	R	1/8/2010	
1		1	RE12-10-7267	R	1/8/2010	
1		1	RE12-10-7268	R	1/8/2010	
1		1	RE12-10-7269	R	1/8/2010	
1		1	RE12-10-7270	R	1/8/2010	
1		1	RE12-10-7271	R	1/8/2010	
1		1	RE12-10-7282	R	1/8/2010	
1		1	RE12-10-7283	R	1/8/2010	
1		1	RE12-10-7258	R	1/8/2010	
1		1	RE12-10-7259	R	1/8/2010	
1		1	RE12-10-7260	R	1/8/2010	
1		1	RE12-10-7261	R	1/8/2010	
1		1	RE12-10-7262	R	1/8/2010	
1		1	RE12-10-7263	R	1/8/2010	
1		1	RE12-10-7264	R	1/8/2010	
1		1	RE12-10-7265	R	1/8/2010	
1		1	RE12-10-7266	R	1/8/2010	
1		1	RE12-10-7267	R	1/8/2010	
1		1	RE12-10-7268	R	1/8/2010	
1		1	RE12-10-7269	R	1/8/2010	
1		1	RE12-10-7270	R	1/8/2010	
1		1	RE12-10-7271	R	1/8/2010	
1		1	RE12-10-7282	R	1/8/2010	
1		1	RE12-10-7283	R	1/8/2010	

SW-846:9012A

Tuesday, January 12, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1226

LOS ALAMOS

REQUEST NUMBER: 10-1226

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/11/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7262	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7266	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7258	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7268	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7265	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7261	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7259	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7263	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7271	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7260	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7267	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7264	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7270	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7269	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7283	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7282	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7266

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3	AIH	SED
TIME COLLECTED (HH:MM)		1257		SUB-MEDIA:	TUFF 1	NA	
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:	HA	OK	
LOCATION ID:	12-610546	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 118/10	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist sand, tuff fragments, pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC:

4a-12 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 10 dpm
 Beta/Gamma \leq 2710 dpm

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

COLLECTED BY (PRINT)

JLMcFarlane

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Greenwood (Signature) Sherri Greenwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7282

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1304		SUB-MEDIA:		TUFF 1	
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK	12-610545		FIELD QC TYPE:		FD	
LOCATION TYPE:	GENERIC	ok		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 1/08/10	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 liter	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE12-10-7265

Pinkish gray Tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 4a-11, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 22$ dpm

B $\gamma \leq 3150$ dpm

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

COLLECTED BY (PRINT)

T. L. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) R. Saunders	1/08/2010	(Printed Name) Sherri Sherwood	1/8/10
(Signature) R. Saunders	1517	(Signature) Sherri Sherwood	1517
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7268

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		
TIME COLLECTED (HH:MM)		01:08:2009.13m		SUB-MEDIA:	TUFF 1		Alh
PRS ID:	12-004(a)	1319		SAMPLE TECH CODE:	HA		NA
LOCATION ID:	12-610547	ok		FIELD QC TYPE:	NA		ok
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	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	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12/10	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray silty sand, some tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

4a-13 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm

Beta/Gamma = 3030 dpm

HE neg

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

COLLECTED BY (PRINT)

T. McFarlane

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7267

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA: OBT3		ok	
TIME COLLECTED (HH:MM)		1304		SUB-MEDIA: TUFF 1		↓	
PRS ID: 12-004(a)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 12-610546		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		2.0		SCREEN/PORT DESC: NA			
FIELD MATRIX: R		ok		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		8270C+NMED Exp	500 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:

Pinkish gray tuff and brown moist sand

SAMPLE COMMENTS:

Tuff at 1.6 ft

LOCATION DESC:

4a-12

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 38 dpm
Beta/Gamma \leq 3000 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7269

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1326		SUB-MEDIA:	TUFF 1		↓
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610547	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.9		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	ok		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA	NO		
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 72m 1/08/2010	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS:

Tuff at 1.0 ft

LOCATION DESC:

4a-13 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 2920 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sheri Greenwood (Signature) Sheri Greenwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7271

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1350		SUB-MEDIA:	TUFF 1		L
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610548			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.8		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 1/08/10	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray, tuff

SAMPLE COMMENTS:

Hit tuff at 8 inches

LOCATION DESC:

4a-14 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpm
Beta/Gamma \leq 2860 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherrill Sherwood (Signature) Sherrill Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7260

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1104		SUB-MEDIA:		TUFF 1	
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	12-610543	↓		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		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	8270C+NMED Exp	500 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 1 L FROM 1/2/10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Frozen brown silty sand and some gray tuff, some roots and tuff rocks

FD: RE12-10-7283

SAMPLE COMMENTS:

Hit tuff at 0.5 ft

LOCATION DESC: 4a-9, southeast of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha = 36 dpm
Beta/Gamma = 3640 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7283

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1104		SUB-MEDIA:		TUFF 1	
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK	12-610543		FIELD QC TYPE:		FD	
LOCATION TYPE:	GENERIC	ok		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 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: QC Sample of RE12-10-7260

Frozen brown silty sand and some gray tuff, some roots and tuff rocks

SAMPLE COMMENTS:

1st tuff at 0.5 ft

LOCATION DESC: 4a-9, southeast of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 38 dpm
Beta/Gamma < 2690 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm
HE negative

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7262

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1120		SUB-MEDIA:	TUFF 1		L
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610544	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.6		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	ok		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 1/8/10	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray weathered tuff, some roots and rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

4a-10 south of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 2500 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7259

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		
TIME COLLECTED (HH:MM)		1025		SUB-MEDIA:	TUFF 1		
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		
LOCATION ID:	12-610542	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.7		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1	↓	Met+U+CLO4+C N	1 LITER POLY 1 L REM 1/7/10	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

4a-8 south of benches

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpm
Beta/Gamma \leq 2640 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7258

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1016		SUB-MEDIA:	TUFF 1		OK
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:	HA		NA
LOCATION ID:	12-610542			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.8		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA	NO/NA		
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 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 1L 2AM 1/7/10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: grey tuff, some brown clay

SAMPLE COMMENTS:

hit tuff at 6 inches

LOCATION DESC:

4a-8 south of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 33 dpm
Beta/Gamma = 2590 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7263

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1150		SUB-MEDIA:	TUFF 1		
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		
LOCATION ID:	12-610544	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.7		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 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:

Pinkish gray tuff, some roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

4a- 10 south of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpmBeta/Gamma \leq 2430 dpmPID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) Sherrif Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7261

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1137		SUB-MEDIA:	TUFF1		↓
PRS ID:	12-004(a)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610543	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.8		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 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: pinkish grey tuff with orange tuff, some roots, slightly moist, Some brown sand

SAMPLE COMMENTS: 1.2' hit tuff

LOCATION DESC: 4a-9, southeast of bunker

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 22 dpm
Beta/Gamma \pm 2480 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7270

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1343		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610548	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.8		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	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 12m 1/8/10	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: dark to brown soil, wood/Root Fragments/moist

SAMPLE COMMENTS:

N/A

LOCATION DESC:

4a-14, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 16 dpm
Beta/Gamma = 2860 dpmPID Ambient 0.0
Reading 0.0 ppm

HE NEG

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7265

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1304		SUB-MEDIA:	TUFF1		↓
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-610545	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NO			WATER FLOWING: YES/NO/NA	NO		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY 7m 1/2/10	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1 Liter	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Pinkish grey tuff

FD RE12-10-7282

SAMPLE COMMENTS:

NA

LOCATION DESC: 4a-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm
Beta/Gamma = 315 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2480

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(a) - Threemile Canyon

SAMPLE ID: RE12-10-7264

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/08/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		12:59		SUB-MEDIA:		TUFF 1	
PRS ID:	12-004(a)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	12-610545	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.9		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	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1	↓	Met+U+CLO4+C N	1 GAL POLY	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown silty sand, some root

SAMPLE COMMENTS:

RS 01-08-10-0.7, hit tuff
0.5

LOCATION DESC: 4a-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 22 dpm
Beta/Gamma < 2700 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

HE Neg.

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TL McFarland


RELINQUISHED BY (Printed Name) R. Saunders (Signature) R. Saunders	Date/Time 01/08/2010 1517	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) Sherrif Sherwood	Date/Time 1/8/10 1517
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE 12-10 7258
7259
7260
7261
7262
7263
7283
7282
7264
7265
7267

7268
7269
7270
7271



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

.....

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

Reason:

.....

Print Last Name Byers Signature  Date _____



133 State Road 4, White Rock, NM 87544

905-672-2770 FAX 905-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-7258

ARS Sample ID: ARS2-10-00014-001

Sample Collection Date: 01/06/10 10:16

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MNC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Traceor/Chem Recovery
GROSS ALPHA	18.08	24.17	39.18	24.27		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	50.51	16.62	19.19	17.74		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.02	0.05	0.10	0.05		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	0.40	0.85	4.41	0.55		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	0.85	0.10	0.85		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.35	0.24	0.07	0.24		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	-0.01	12.88	0.06	12.88		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PU-152	0.63	0.50	0.11	0.50		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.53	0.49	0.13	0.50		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-228	1.89	0.85	0.26	0.85		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	0.36	0.41	0.37	0.41		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	2.14	3.31	1.49	3.34		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.20	0.31	0.13	0.31		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 1.28

Matthew J. Edm
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Client Sample ID: RE12-10-7259

Sample Collection Date: 01/08/10 10:25

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00014-002

Date Received: 01/11/10 00:00

Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MMC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	41.27	28.73	28.64	29.17		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	36.60	15.17	17.99	15.82		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.07	0.14	0.11	0.14		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	20.24	9.59	1.75	9.63		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.71	0.74	0.12	0.24		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.19	0.19	0.08	0.19		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	-0.01	15.02	0.07	15.02		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
EU-152	0.91	0.57	0.13	0.58		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.31	0.80	0.15	0.51		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PA-228	1.76	0.93	0.31	0.93		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	0.80	0.89	0.44	0.89		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	1.50	2.13	1.17	2.16		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	-0.01	31.82	0.07	31.82		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 0.53

Matthew J. Edin
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-7260

ARS Sample ID: ARS2-10-00014-003

Sample Collection Date: 01/08/10 11:04

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:33

Analyte Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	56.26	34.26	32.23	34.95		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	61.67	49.43	19.86	20.57		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	16.46	7.59	1.02	7.61		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	12.67	0.13	12.57		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.06	0.10	0.09	0.10		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	0.13	0.17	0.08	0.17		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
EU-152	0.00	13.07	0.15	13.07		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.50	0.59	0.20	0.59		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-226	2.31	1.01	0.34	1.01		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	1.21	0.60	0.37	0.60		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	40.55	4.64	1.62	4.64		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.42	0.33	0.11	0.33		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 1.96

M. J. Edger
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014
 Client Sample ID: RE12-10-7261
 Sample Collection Date: 01/08/10 11:37
 Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00014-004
 Date Received: 01/11/10 00:00
 Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	min	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	31.66	27.26	25.16	27.54		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	51.60	16.62	16.68	17.97		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	22.28	6.95	2.02	8.97		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	17.14	0.15	13.10		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.07	0.10	0.10	0.10		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	0.14	0.18	0.08	0.18		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
EU-152	0.29	0.40	0.15	0.40		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	0.69	0.51	0.23	0.51		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-226	1.85	0.85	0.35	0.86		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	1.04	1.14	0.44	1.14		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	2.86	2.90	1.40	2.96		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.20	0.33	0.15	0.33		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 1.23

Martin J. Eden
 Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate # 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2700 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-7262

ARS Sample ID: ARS2-10-00014-003

Sample Collection Date: 01/08/10 11:20

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	Yell	Q-val	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	42.83	32.49	39.18	32.91		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	56.34	17.55	19.19	18.85		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
HA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	31.47	10.38	1.97	10.42		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	12.87	0.13	12.87		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.14	0.15	0.09	0.15		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	0.24	0.22	0.08	0.22		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
SU-152	0.00	13.39	0.15	13.39		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.46	0.56	0.17	0.57		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-228	2.28	0.93	0.34	0.94		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	-0.05	71.35	0.20	71.35		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	10.37	3.92	1.98	3.55		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.54	0.34	0.09	0.34		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 0.57

Matthew J. Eden
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-7263

ARS Sample ID: ARS2-10-00014-006

Sample Collection Date: 01/08/10 11:50

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	41.26	28.73	28.64	29.17		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	54.69	17.02	17.99	18.29		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.06	0.13	0.10	0.12		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	25.98	8.35	1.94	8.38		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.11	0.13	0.10	0.13		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	0.05	0.08	0.06	0.08		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
EU-152	0.50	0.56	0.12	0.56		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.27	0.44	0.11	0.45		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-228	1.48	0.76	0.27	0.77		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	0.17	0.43	0.24	0.43		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	3.89	3.33	1.38	3.44		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.51	0.27	0.07	0.27		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 0.61

Matthew L. Edley
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the user of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87338



122 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-7264

ARS Sample ID: ARS2-10-00014-007

Sample Collection Date: 01/08/10 12:29

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YMI	Quot	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem recovery
GROSS ALPHA	38.94	28.56	32.13	28.91		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	63.64	18.95	19.86	20.49		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.09	0.18	0.14	0.18		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	21.34	9.35	2.27	9.37		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	14.85	0.18	14.85		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	0.01	0.05	0.09	0.05		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
EU-152	0.00	15.44	0.17	15.44		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.12	0.65	0.27	0.65		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-226	1.07	1.07	0.40	1.07		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	1.85	1.25	0.23	1.25		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	2.24	2.84	1.43	2.88		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	0.62	0.36	0.11	0.36		pCi/g	EPA 901.1M	1/11/2010	ME	N/A

NOTES: % Moisture: 1.32

Matthew A. Edin
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the role of the analysts itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00014

Request or PO Number:

Client Sample ID: RE12-10-77AR

ARS Sample ID: ARS2-10-00014-008

Sample Collection Date: 01/08/10 13:04

Date Received: 01/11/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/11/10 13:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	80.24	25.06	35.16	35.80		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
GROSS BETA	30.32	15.10	18.66	18.35		pCi/g	EPA 900.0M	1/11/2010	ME	N/A
NA-22	0.00	0.00	0.10	0.08		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
K-40	30.05	9.09	1.99	9.13		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CO-60	0.00	10.41	0.11	10.41		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-134	0.00	0.00	0.08	0.08		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
CS-137	-0.01	13.63	0.07	13.63		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
SU-152	0.00	10.83	0.12	10.83		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
PB-212	1.43	0.49	0.14	0.80		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
RA-228	1.10	0.74	0.28	0.74		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-238	1.10	0.84	0.32	0.84		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
U-235	5.16	5.11	1.77	5.30		pCi/g	EPA 901.1M	1/11/2010	ME	N/A
AM-241	-0.01	21.73	0.03	21.73		pCi/g	EPA 901.1M	1/11/2010	ME	N/A


NOTES: % Moisture: 0.60

Matthew J. Eden
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the lab.

LELAP Certificate# 30658

NELAP Certificate # E87558

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

Section I.		
REQUEST NUMBER: <u>10-1226</u>	VALIDATION DATE: <u>02/25/2010</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Mary Donovan</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input checked="" type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____		

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

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


- The MS/MSD %R calculations were performed incorrectly. The parent sample result was < the MDL and, thus, a result of 0 mg/kg should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentration. The MSD %R was not within the acceptance limits when calculated correctly. The MSD %R was > the laboratory UAL for perchlorate. All associated sample results were NDs and, thus, were not qualified.

Reviewed by: ETM


Level: 1

Date: 2/26/10


VALIDATOR'S SIGNATURE: <u>Mary A. Donovan</u>	DATE: <u>02/25/2010</u>
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  Los Alamos NATIONAL LABORATORY EST. 1942

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7262

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628001

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 21.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:00	per0125044a
14797-73-0	Perchlorate-101	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate-O(18)			5.58	ug/kg		1	25-JAN-10 22:00	per0125044a

[^] 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

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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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7266

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628002

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 80

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:55	per0125050a
14797-73-0	Perchlorate-101	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate-O(18)			6.88	ug/kg		1	25-JAN-10 22:55	per0125050a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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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: 242321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7258
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628003
 Date Filtered: 25-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	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:04	per0125051a
14797-73-0	Perchlorate-101	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate-O(18)			6.86	ug/kg		1	25-JAN-10 23:04	per0125051a

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

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

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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: 942321
 Extraction Type: Solid Prep
 Client Sample No. RE12-10-7268
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628004
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.2

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	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate Isotope Ratio								
14797-73-0	Perchlorate-101	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate-O(18)			6.30	ug/kg		1	25-JAN-10 23:13	per0125052a

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

*Concentration =

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

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Perchlorate Analysis Data Sheet

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Client Sample No.
RE12-10-7265

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628005

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 93.8

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

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	.533	2.13	0.533	ug/kg	U	1	25-JAN-10 23:22	per0125053a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:22	per0125053a
14797-73-0	Perchlorate-101	.533	2.13	0.557	ug/kg	J	1	25-JAN-10 23:22	per0125053a
	Perchlorate-O(18)			6.27	ug/kg		1	25-JAN-10 23:22	per0125053a

[^] 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

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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: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7261

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628006

Date Filtered: 25-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	25-JAN-10 23:31	per0125054a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:31	per0125054a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	25-JAN-10 23:31	per0125054a
	Perchlorate-O(18)			7.19	ug/kg		1	25-JAN-10 23:31	per0125054a

[^] 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

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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: 242321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7259
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628007
 Date Filtered: 25-JAN-10
 Injection Volume (mL): 20
 %Solids: 93.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:40	per0125055a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate-O(18)			5.95	ug/kg		1	25-JAN-10 23:40	per0125055a

[^] 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

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Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW346 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7263

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628008

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc.*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:49	per0125056a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate-O(18)			6.25	ug/kg		1	25-JAN-10 23:49	per0125056a

[^] 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

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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: 942321
 Extraction Type: Solid Prep
 Client Sample No. RE12-10-7271
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628009
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 92.4
 Concentrated Extract Volume: 20.0

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	25-JAN-10 23:58	per0125057a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:58	per0125057a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	25-JAN-10 23:58	per0125057a
	Perchlorate-O(18)			6.21	ug/kg		1	25-JAN-10 23:58	per0125057a

[^] 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

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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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7260
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628010
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 80

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:34	per0125061a
14797-73-0	Perchlorate-101	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate-O(18)			7.86	ug/kg		1	26-JAN-10 00:34	per0125061a

[^] 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

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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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7267

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628011

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 92.9

CAS No.	Analyte [^]	MDL	RL	Conc.*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:44	per0125062a
14797-73-0	Perchlorate-101	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate-O(18)			5.67	ug/kg		1	26-JAN-10 00:44	per0125062a

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

*Concentration =

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

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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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7264

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244528012

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:53	per0125063a
14797-73-0	Perchlorate-101	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate-O(18)			6.69	ug/kg		1	26-JAN-10 00:53	per0125063a

[^] 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

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Form 1

Pernchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 8850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7270

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628013

Date Filtered: 25-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	Pernchlorate	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Pernchlorate Isotope Ratio						1	26-JAN-10 01:02	per0125064a
14797-73-0	Pernchlorate-101	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Pernchlorate-O(18)			6.56	ug/kg		1	26-JAN-10 01:02	per0125064a

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

*Concentration =

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

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Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE12-10-7269

Lab Code: GEL Date Received: 13-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1226

Method: SW846 6850 Modified GEL Sample ID: 244628014

Matrix: SOIL Date Filtered: 25-JAN-10

Extraction Batch ID: 942321 Injection Volume (uL): 20

Extraction Type: Solid Prep %Solids: 24

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	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:11	per0125065a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate-O(18)			5.76	ug/kg		1	26-JAN-10 01:11	per0125065a

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

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

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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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7283
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628015
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 82

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:20	per0125066a
14797-73-0	Perchlorate-101	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate-O(18)			7.41	ug/kg		1	26-JAN-10 01:20	per0125066a

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

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

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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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7282
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628016
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 93.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:29	per0125067a
14797-73-0	Perchlorate-101	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate-O(18)			6.00	ug/kg		1	26-JAN-10 01:29	per0125067a

[^] 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

MAD
 02/25/10

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1226 VALIDATION DATE: 02/25/2010 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Mary Donovan ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input checked="" type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): | | | |

Section II. Completeness Check

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

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


1. In the ICB and CCBs associated with all samples except RE12-10-7269, T1 was detected. The T1 results for samples -7262, -7266, -7258, -7261, -7259, -7263, -7260 and -7283 were detects $\leq 5X$ the greatest blank concentration and, thus, were qualified UJ4b. The remaining associated sample results were NDs and, thus, were not qualified.
2. In the FR blank, sample -7286 in RN 10-1262, associated with all samples, Mn and K were detected. All associated sample results were detects $> 5X$ the greatest FR blank concentrations and, thus, were not qualified.
3. The MS %Rs were $<$ the laboratory LAL but $\geq 10\%$ for Se and Tl. All associated sample results were either NDs or qualified ND and, thus, were qualified UJ4a. The MS %Rs were also $>$ the laboratory UAL for Al and $< 10\%$ for Ca, Fe and Mn. However, the associated parent sample concentrations were $> 4X$ the spike concentrations. Thus, the associated sample results were not qualified, based on professional judgment.

Reviewed by: ETM


Level: 1

Date: 2/26/10


VALIDATOR'S SIGNATURE: Mary A. Donovan DATE: 02/25/2010

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


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

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1942

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, I4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5X$.	N/A	J, I4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22. The associated matrix spike recovery was $< 10\%$. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was $< \text{the LAL}$ but $> 10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24. The associated matrix spike recovery was $> \text{the UAL}$. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the Initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628001

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7262

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 91.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6060000	ug/Kg	*	7400	21800	21800	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-36-0	Antimony	364	ug/Kg	J	359	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-38-2	Arsenic	1.41	mg/kg		0.218	1.09	1.09	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-39-3	Barium	55200	ug/Kg		109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-41-7	Beryllium	0.728	mg/kg	N	0.0218	0.109	0.109	2	MS	RMJ	02/06/10 21:34	100206-5	941798
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-70-2	Calcium	2210000	ug/Kg		8710	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-47-3	Chromium	22700	ug/Kg		163	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-48-4	Cobalt	2670	ug/Kg		163	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-50-8	Copper	2610	ug/Kg		282	939	939	1	P	HSC	02/09/10 07:13	020910-1	950667
7439-89-6	Iron	10900000	ug/Kg		8710	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-92-1	Lead	9150	ug/Kg		272	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-95-4	Magnesium	1120000	ug/Kg		9250	32700	32700	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-96-5	Manganese	265000	ug/Kg		218	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-97-6	Mercury	12.7	ug/kg		4.26	12.5	12.5	1	AV	JXL1	01/28/10 12:59	012810S1-8	943309
7440-02-0	Nickel	3.76	mg/kg		0.109	0.435	0.435	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-09-7	Potassium	903000	ug/Kg	*	6970	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7782-49-2	Selenium	UJ,16a	mg/kg	UN	0.544	1.09	1.09	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-22-4	Silver	421	ug/Kg	J	109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-23-5	Sodium	80200	ug/Kg		7620	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-28-0	Thallium	U,14b	mg/kg	JN	0.0653	0.218	0.218	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-61-1	Uranium	0.945	mg/kg		0.0134	0.0406	0.0406	2	MS	SKJ	02/09/10 11:52	100209-3	950023
7440-62-2	Vanadium	13800	ug/Kg		109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-66-6	Zinc	28000	ug/Kg	*	359	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.504	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.504	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.526	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.541	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.584	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628002

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7266

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 80

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2420000	ug/Kg	*	8270	24300	24300	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-36-0	Antimony	1070	ug/Kg	J	402	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-38-2	Arsenic	1.19	mg/kg	J	0.244	1.22	1.22	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-39-3	Barium	41700	ug/Kg		122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-41-7	Beryllium	0.965	mg/kg	N	0.0244	0.122	0.122	2	MS	RMJ	02/06/10 21:47	100206-5	941798
7440-43-9	Cadmium	134	ug/Kg	J	122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-70-2	Calcium	2070000	ug/Kg		9730	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-47-3	Chromium	38100	ug/Kg		183	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-48-4	Cobalt	1140	ug/Kg		183	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-50-8	Copper	3840	ug/Kg		368	1230	1230	1	P	HSC	02/09/10 07:39	020910-1	950667
7439-89-6	Iron	7130000	ug/Kg		9730	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-92-1	Lead	7880	ug/Kg		304	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-95-4	Magnesium	498000	ug/Kg		10300	36500	36500	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-96-5	Manganese	264000	ug/Kg		243	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-97-6	Mercury	5.09	ug/kg	J	4.8	14.1	14.1	1	AV	JXLI	01/28/10 13:07	012810S1-8	943309
7440-02-0	Nickel	3.23	mg/kg		0.122	0.489	0.489	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-09-7	Potassium	477000	ug/Kg	*	7790	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7782-49-2	Selenium UJ,16a	1.22	mg/kg	UN	0.611	1.22	1.22	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-22-4	Silver	363	ug/Kg	J	122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-23-5	Sodium	42400	ug/Kg		8520	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-28-0	Thallium UJ,14b	0.0916	mg/kg	JN	0.0733	0.244	0.244	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-61-1	Uranium	2.63	mg/kg		0.0149	0.0451	0.0451	2	MS	SKJ	02/09/10 12:03	100209-3	950023
7440-62-2	Vanadium	5970	ug/Kg		122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-66-6	Zinc	37100	ug/Kg	*	402	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.51	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.529	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.552	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.508	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628003

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7258

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4040000	ug/Kg	*	7850	23100	23100	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-36-0	Antimony	1360	ug/Kg		381	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-38-2	Arsenic	1.34	mg/kg		0.231	1.15	1.15	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-39-3	Barium	36000	ug/Kg		115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-41-7	Beryllium	0.709	mg/kg	N	0.0231	0.115	0.115	2	MS	RMJ	02/06/10 21:50	100206-5	941798
7440-43-9	Cadmium	577	ug/Kg	U	115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-70-2	Calcium	638000	ug/Kg		9240	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-47-3	Chromium	60400	ug/Kg		173	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-48-4	Cobalt	4830	ug/Kg		173	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-50-8	Copper	3730	ug/Kg		314	1050	1050	1	P	HSC	02/09/10 07:42	020910-1	950667
7439-89-6	Iron	9590000	ug/Kg		9240	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-92-1	Lead	6400	ug/Kg		289	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-95-4	Magnesium	563000	ug/Kg		9820	34600	34600	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-96-5	Manganese	296000	ug/Kg		231	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-97-6	Mercury	20.1	ug/kg		4.37	12.9	12.9	1	AV	JXL1	01/28/10 13:09	012810S1-8	943309
7440-02-0	Nickel	4.89	mg/kg		0.115	0.461	0.461	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-09-7	Potassium	589000	ug/Kg	*	7390	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7782-49-2	Selenium UJ,16a	1.15	mg/kg	UN	0.576	1.15	1.15	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-22-4	Silver	502	ug/Kg	J	115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-23-5	Sodium	128000	ug/Kg		8080	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-28-0	Thallium U,14b	0.0781	mg/kg	JN	0.0692	0.231	0.231	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-61-1	Uranium	1.39	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	02/09/10 12:05	100209-3	950023
7440-62-2	Vanadium	8340	ug/Kg		115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-66-6	Zinc	28400	ug/Kg	*	381	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.505	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.506	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.544	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.525	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.557	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628004

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7268

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 90.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3360000	ug/Kg	*	7360	21700	21700	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-36-0	Antimony	1080	ug/Kg	U	357	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-38-2	Arsenic	1.04	mg/kg	J	0.217	1.08	1.08	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-39-3	Barium	40100	ug/Kg		108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-41-7	Beryllium	0.679	mg/kg	N	0.0217	0.108	0.108	2	MS	RMJ	02/06/10 21:53	100206-5	941798
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-70-2	Calcium	647000	ug/Kg		8660	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-47-3	Chromium	3910	ug/Kg		162	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-48-4	Cobalt	1590	ug/Kg		162	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-50-8	Copper	4540	ug/Kg		327	1090	1090	1	P	HSC	02/09/10 07:46	020910-1	950667
7439-89-6	Iron	10000000	ug/Kg		8660	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-92-1	Lead	10800	ug/Kg		271	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-95-4	Magnesium	603000	ug/Kg		9200	32500	32500	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-96-5	Manganese	330000	ug/Kg		217	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-97-6	Mercury	5.7	ug/kg	J	3.91	11.5	11.5	1	AV	JXL1	01/28/10 13:11	012810S1-8	943309
7440-02-0	Nickel	1.87	mg/kg		0.108	0.433	0.433	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-09-7	Potassium	530000	ug/Kg	*	6930	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7782-49-2	Selenium UJ,16a	1.08	mg/kg	UN	0.541	1.08	1.08	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-22-4	Silver	523	ug/Kg	J	108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-23-5	Sodium	48800	ug/Kg		7580	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-28-0	Thallium UJ,16a	0.217	mg/kg	UN	0.065	0.217	0.217	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-61-1	Uranium	3.89	mg/kg		0.0143	0.0433	0.0433	2	MS	SKJ	02/09/10 12:12	100209-3	950023
7440-62-2	Vanadium	8030	ug/Kg		108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-66-6	Zinc	45600	ug/Kg	*	357	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.578	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.512	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.508	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628005

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7265

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1970000	ug/Kg	*	7090	20900	20900	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-36-0	Antimony	1040	ug/Kg	U	344	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-38-2	Arsenic	0.451	mg/kg	J	0.205	1.02	1.02	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-39-3	Barium	10400	ug/Kg		104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-41-7	Beryllium	0.692	mg/kg	N	0.0205	0.102	0.102	2	MS	RMJ	02/06/10 22:01	100206-5	941798
7440-43-9	Cadmium	521	ug/Kg	U	104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-70-2	Calcium	264000	ug/Kg		8340	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-47-3	Chromium	2320	ug/Kg		156	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-48-4	Cobalt	399	ug/Kg	J	156	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-50-8	Copper	2280	ug/Kg		272	908	908	1	P	HSC	02/09/10 07:50	020910-1	950667
7439-89-6	Iron	7700000	ug/Kg		8340	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-92-1	Lead	6310	ug/Kg		261	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-95-4	Magnesium	370000	ug/Kg		8860	31300	31300	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-96-5	Manganese	292000	ug/Kg		209	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-97-6	Mercury	12.6	ug/kg	U	4.29	12.6	12.6	1	AV	JXL1	01/28/10 13:16	012810S1-8	943309
7440-02-0	Nickel	0.837	mg/kg		0.102	0.409	0.409	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-09-7	Potassium	320000	ug/Kg	*	6670	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7782-49-2	Selenium UJ,16a	1.02	mg/kg	UN	0.511	1.02	1.02	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-22-4	Silver	369	ug/Kg	J	104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-23-5	Sodium	200000	ug/Kg		7300	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-28-0	Thallium UJ,16a	0.205	mg/kg	UN	0.0614	0.205	0.205	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-61-1	Uranium	0.615	mg/kg		0.013	0.0395	0.0395	2	MS	SKJ	02/09/10 12:14	100209-3	950023
7440-62-2	Vanadium	2700	ug/Kg		104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-66-6	Zinc	48300	ug/Kg	*	344	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.511	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.521	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.507	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.539	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.587	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628006

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7261

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7320000	ug/Kg	*	7510	22100	22100	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-36-0	Antimony	926	ug/Kg	J	364	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-38-2	Arsenic	1.84	mg/kg		0.227	1.13	1.13	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-39-3	Barium	67700	ug/Kg		110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-41-7	Beryllium	1.17	mg/kg	N	0.0227	0.113	0.113	2	MS	RMJ	02/06/10 22:03	100206-5	941798
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-70-2	Calcium	2410000	ug/Kg		8840	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-47-3	Chromium	43800	ug/Kg		166	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-48-4	Cobalt	2570	ug/Kg		166	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-50-8	Copper	5310	ug/Kg		337	1120	1120	1	P	HSC	02/09/10 07:53	020910-1	950667
7439-89-6	Iron	10000000	ug/Kg		8840	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-92-1	Lead	8010	ug/Kg		276	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-95-4	Magnesium	1290000	ug/Kg		9390	33100	33100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-96-5	Manganese	217000	ug/Kg		221	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-97-6	Mercury	31.6	ug/kg		4.57	13.4	13.4	1	AV	JXL	01/28/10 13:17	012810S1-8	943309
7440-02-0	Nickel	7.16	mg/kg		0.113	0.453	0.453	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-09-7	Potassium	951000	ug/Kg	*	7070	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7782-49-2	Selenium UJ,16a	1.13	mg/kg	UN	0.566	1.13	1.13	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-22-4	Silver	438	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-23-5	Sodium	94400	ug/Kg		7730	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-28-0	Thallium U,14b	0.127	mg/kg	JN	0.068	0.227	0.227	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-61-1	Uranium	1.27	mg/kg		0.0152	0.046	0.046	2	MS	SKJ	02/09/10 12:16	100209-3	950023
7440-62-2	Vanadium	12400	ug/Kg		110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-66-6	Zinc	25400	ug/Kg	*	364	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.522	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.509	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.515	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.501	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.514	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628007

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7259

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 93.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3880000	ug/Kg	*	7160	21100	21100	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-36-0	Antimony	1050	ug/Kg	U	347	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-38-2	Arsenic	1.23	mg/kg		0.205	1.02	1.02	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-39-3	Barium	28200	ug/Kg		105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-41-7	Beryllium	0.662	mg/kg	N	0.0205	0.102	0.102	2	MS	RMJ	02/06/10 22:06	100206-5	941798
7440-43-9	Cadmium	526	ug/Kg	U	105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-70-2	Calcium	587000	ug/Kg		8420	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-47-3	Chromium	15200	ug/Kg		158	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-48-4	Cobalt	1570	ug/Kg		158	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-50-8	Copper	3020	ug/Kg		315	1050	1050	1	P	HSC	02/09/10 07:57	020910-1	950667
7439-89-6	Iron	7760000	ug/Kg		8420	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-92-1	Lead	5060	ug/Kg		263	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-95-4	Magnesium	486000	ug/Kg		8950	31600	31600	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-96-5	Manganese	212000	ug/Kg		211	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-97-6	Mercury	27.4	ug/kg		4.09	12	12	1	AV	JXL	01/28/10 13:19	012810S1-8	943309
7440-02-0	Nickel	3.24	mg/kg		0.102	0.41	0.41	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-09-7	Potassium	471000	ug/Kg	*	6740	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7782-49-2	Selenium U,16a	1.02	mg/kg	UN	0.512	1.02	1.02	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-22-4	Silver	392	ug/Kg	J	105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-23-5	Sodium	98000	ug/Kg		7370	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-28-0	Thallium U,14b	0.0662	mg/kg	JN	0.0615	0.205	0.205	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-61-1	Uranium	0.520	mg/kg		0.0131	0.0398	0.0398	2	MS	SKJ	02/09/10 12:18	100209-3	950023
7440-62-2	Vanadium	6200	ug/Kg		105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-66-6	Zinc	20700	ug/Kg	*	347	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.508	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.522	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.533	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.538	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.509	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628008

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7263

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6020000	ug/Kg	*	6980	20500	20500	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-36-0	Antimony	470	ug/Kg	J	339	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-38-2	Arsenic	1.8	mg/kg		0.209	1.04	1.04	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-39-3	Barium	44900	ug/Kg		103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-41-7	Beryllium	1.01	mg/kg	N	0.0209	0.104	0.104	2	MS	RMJ	02/06/10 22:09	100206-5	941798
7440-43-9	Cadmium	513	ug/Kg	U	103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-70-2	Calcium	1680000	ug/Kg		8210	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-47-3	Chromium	18500	ug/Kg		154	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-48-4	Cobalt	1700	ug/Kg		154	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-50-8	Copper	3810	ug/Kg		287	956	956	1	P	HSC	02/09/10 08:01	020910-1	950667
7439-89-6	Iron	9780000	ug/Kg		8210	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-92-1	Lead	7660	ug/Kg		257	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-95-4	Magnesium	1090000	ug/Kg		8720	30800	30800	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-96-5	Manganese	204000	ug/Kg		205	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-97-6	Mercury	20.9	ug/kg		3.68	10.8	10.8	1	AV	JXL	01/28/10 13:21	012810S1-8	943309
7440-02-0	Nickel	6.14	mg/kg		0.104	0.417	0.417	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-09-7	Potassium	799000	ug/Kg	*	6570	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7782-49-2	Selenium UJ,16a	1.04	mg/kg	UN	0.521	1.04	1.04	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-22-4	Silver	441	ug/Kg	J	103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-23-5	Sodium	92200	ug/Kg		7180	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-28-0	Thallium U,14b	0.0872	mg/kg	JN	0.0626	0.209	0.209	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-61-1	Uranium	0.697	mg/kg		0.0135	0.0409	0.0409	2	MS	SKJ	02/09/10 12:20	100209-3	950023
7440-62-2	Vanadium	12300	ug/Kg		103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-66-6	Zinc	22200	ug/Kg	*	339	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.516	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.508	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.587	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.518	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.554	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628009

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7271

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4910000	ug/Kg	*	7360	21600	21600	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-36-0	Antimony	458	ug/Kg	J	357	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-38-2	Arsenic	1.13	mg/kg		0.211	1.06	1.06	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-39-3	Barium	31900	ug/Kg		108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-41-7	Beryllium	1.17	mg/kg	N	0.0211	0.106	0.106	2	MS	RMJ	02/06/10 22:12	100206-5	941798
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-70-2	Calcium	1290000	ug/Kg		8660	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-47-3	Chromium	12600	ug/Kg		162	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-48-4	Cobalt	1100	ug/Kg		162	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-50-8	Copper	5070	ug/Kg		277	925	925	1	P	HSC	02/09/10 08:04	020910-1	950667
7439-89-6	Iron	9480000	ug/Kg		8660	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-92-1	Lead	7600	ug/Kg		270	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-95-4	Magnesium	938000	ug/Kg		9200	32500	32500	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-96-5	Manganese	225000	ug/Kg		216	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-97-6	Mercury	16.9	ug/kg		3.97	11.7	11.7	1	AV	JXL	01/28/10 13:23	012810S1-8	943309
7440-02-0	Nickel	3.27	mg/kg		0.106	0.423	0.423	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-09-7	Potassium	622000	ug/Kg	*	6920	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7782-49-2	Selenium UJ,16a	1.06	mg/kg	UN	0.528	1.06	1.06	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-22-4	Silver	433	ug/Kg	J	108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-23-5	Sodium	64400	ug/Kg		7570	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-28-0	Thallium UJ,16a	0.211	mg/kg	UN	0.0634	0.211	0.211	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-61-1	Uranium	1.01	mg/kg		0.0143	0.0433	0.0433	2	MS	SKJ	02/09/10 12:23	100209-3	950023
7440-62-2	Vanadium	8390	ug/Kg		108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-66-6	Zinc	41800	ug/Kg	*	357	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.556	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.585	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628010

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7260

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 80

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9390000	ug/Kg	*	8370	24600	24600	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-36-0	Antimony	414	ug/Kg	J	406	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-38-2	Arsenic	2.27	mg/kg		0.25	1.25	1.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-39-3	Barium	118000	ug/Kg		123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-41-7	Beryllium	1.45	mg/kg	N	0.025	0.125	0.125	2	MS	RMJ	02/06/10 22:14	100206-5	941798
7440-43-9	Cadmium	213	ug/Kg	J	123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-70-2	Calcium	5100000	ug/Kg		9850	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-47-3	Chromium	15100	ug/Kg		185	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-48-4	Cobalt	3390	ug/Kg		185	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-50-8	Copper	8690	ug/Kg		359	1200	1200	1	P	HSC	02/09/10 08:15	020910-1	950667
7439-89-6	Iron	11900000	ug/Kg		9850	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-92-1	Lead	16100	ug/Kg		308	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-95-4	Magnesium	1810000	ug/Kg		10500	36900	36900	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-96-5	Manganese	328000	ug/Kg		246	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-97-6	Mercury	30.6	ug/kg		4.54	13.3	13.3	1	AV	JXL	01/28/10 13:24	012810S1-8	943309
7440-02-0	Nickel	5.98	mg/kg		0.125	0.499	0.499	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-09-7	Potassium	1530000	ug/Kg	*	7880	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7782-49-2	Selenium UJ,16a	1.25	mg/kg	UN	0.624	1.25	1.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-22-4	Silver	487	ug/Kg	J	123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-23-5	Sodium	70600	ug/Kg		8620	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-28-0	Thallium U,14b	0.125	mg/kg	JN	0.0749	0.25	0.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-61-1	Uranium	6.34	mg/kg		0.0155	0.0468	0.0468	2	MS	SKJ	02/09/10 12:25	100209-3	950023
7440-62-2	Vanadium	19200	ug/Kg		123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-66-6	Zinc	38700	ug/Kg	*	406	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.507	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.561	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.533	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.522	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628011

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7267

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 92.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2280000	ug/Kg	*	7070	20800	20800	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-36-0	Antimony	1040	ug/Kg	U	343	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-38-2	Arsenic	0.892	mg/kg	J	0.214	1.07	1.07	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-39-3	Barium	26500	ug/Kg		104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-41-7	Beryllium	0.679	mg/kg	N	0.0214	0.107	0.107	2	MS	RMJ	02/06/10 22:17	100206-5	941798
7440-43-9	Cadmium	520	ug/Kg	U	104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-70-2	Calcium	686000	ug/Kg		8310	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-47-3	Chromium	4600	ug/Kg		156	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-48-4	Cobalt	1050	ug/Kg		156	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-50-8	Copper	2600	ug/Kg		293	977	977	1	P	HSC	02/09/10 08:19	020910-1	950667
7439-89-6	Iron	9160000	ug/Kg		8310	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-92-1	Lead	5300	ug/Kg		260	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-95-4	Magnesium	438000	ug/Kg		8830	31200	31200	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-96-5	Manganese	257000	ug/Kg		208	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-97-6	Mercury	4.97	ug/kg	J	3.84	11.3	11.3	1	AV	JXL1	01/28/10 13:26	012810S1-8	943309
7440-02-0	Nickel	1.68	mg/kg		0.107	0.428	0.428	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-09-7	Potassium	406000	ug/Kg	*	6650	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7782-49-2	Selenium UJ,16a	1.07	mg/kg	UN	0.535	1.07	1.07	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-22-4	Silver	359	ug/Kg	J	104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-23-5	Sodium	55000	ug/Kg		7270	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-28-0	Thallium UJ,16a	0.214	mg/kg	UN	0.0642	0.214	0.214	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-61-1	Uranium	0.678	mg/kg		0.0142	0.0431	0.0431	2	MS	SKJ	02/09/10 12:27	100209-3	950023
7440-62-2	Vanadium	7000	ug/Kg		104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-66-6	Zinc	43200	ug/Kg	*	343	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.518	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.503	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.572	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.551	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628012

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7264

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2050000	ug/Kg	*	7510	22100	22100	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-36-0	Antimony	1100	ug/Kg	U	364	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-38-2	Arsenic	0.796	mg/kg	J	0.224	1.12	1.12	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-39-3	Barium	36700	ug/Kg		110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-41-7	Beryllium	0.784	mg/kg	N	0.0224	0.112	0.112	2	MS	RMJ	02/09/10 04:26	100208-7	941798
7440-43-9	Cadmium	118	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-70-2	Calcium	1660000	ug/Kg		8830	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-47-3	Chromium	1980	ug/Kg		166	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-48-4	Cobalt	946	ug/Kg		166	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-50-8	Copper	2720	ug/Kg		325	1080	1080	1	P	HSC	02/09/10 08:23	020910-1	950667
7439-89-6	Iron	7390000	ug/Kg		8830	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-92-1	Lead	8630	ug/Kg		276	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-95-4	Magnesium	519000	ug/Kg		9380	33100	33100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-96-5	Manganese	394000	ug/Kg		221	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-97-6	Mercury	9.11	ug/kg	J	3.92	11.5	11.5	1	AV	JXL1	01/28/10 13:28	012810S1-8	943309
7440-02-0	Nickel	1.55	mg/kg		0.112	0.448	0.448	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-09-7	Potassium	499000	ug/Kg	*	7070	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7782-49-2	Selenium UJ,16a	1.12	mg/kg	UN	0.56	1.12	1.12	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-22-4	Silver	309	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-23-5	Sodium	70000	ug/Kg		7730	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-28-0	Thallium UJ,16a	0.224	mg/kg	UN	0.0672	0.224	0.224	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-61-1	Uranium	2.08	mg/kg		0.0148	0.045	0.045	2	MS	SKJ	02/09/10 12:34	100209-3	950023
7440-62-2	Vanadium	4740	ug/Kg		110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-66-6	Zinc	45800	ug/Kg	*	364	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.509	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.502	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.585	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.518	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628013

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7270

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3160000	ug/Kg	*	7770	22900	22900	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-38-2	Arsenic	1.07	mg/kg	J	0.229	1.14	1.14	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-39-3	Barium	42700	ug/Kg		114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-41-7	Beryllium	0.744	mg/kg	N	0.0229	0.114	0.114	2	MS	RMJ	02/09/10 04:29	100208-7	941798
7440-43-9	Cadmium	133	ug/Kg	J	114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-70-2	Calcium	976000	ug/Kg		9140	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-47-3	Chromium	9060	ug/Kg		171	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-48-4	Cobalt	1360	ug/Kg		171	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-50-8	Copper	4460	ug/Kg		298	994	994	1	P	HSC	02/09/10 08:26	020910-1	950667
7439-89-6	Iron	8200000	ug/Kg		9140	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-92-1	Lead	9130	ug/Kg		286	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-95-4	Magnesium	599000	ug/Kg		9710	34300	34300	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-96-5	Manganese	301000	ug/Kg		229	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-97-6	Mercury	8.19	ug/kg	J	4.28	12.6	12.6	1	AV	JXLI	01/28/10 13:29	012810S1-8	943309
7440-02-0	Nickel	2.58	mg/kg		0.114	0.457	0.457	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-09-7	Potassium	553000	ug/Kg	*	7310	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7782-49-2	Selenium UJ,16a	1.14	mg/kg	UN	0.571	1.14	1.14	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-22-4	Silver	358	ug/Kg	J	114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-23-5	Sodium	53200	ug/Kg		8000	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-28-0	Thallium UJ,16a	0.229	mg/kg	UN	0.0686	0.229	0.229	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-61-1	Uranium	4.76	mg/kg		0.0136	0.0412	0.0412	2	MS	SKJ	02/09/10 12:36	100209-3	950023
7440-62-2	Vanadium	7040	ug/Kg		114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-66-6	Zinc	38500	ug/Kg	*	377	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.544	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.554	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.575	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628014

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7269

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 94

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1840000	ug/Kg	*	7230	21300	21300	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-36-0	Antimony	1060	ug/Kg	U	351	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-38-2	Arsenic	1.07	mg/kg		0.203	1.01	1.01	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-39-3	Barium	16200	ug/Kg		106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-41-7	Beryllium	1.19	mg/kg	N	0.0203	0.101	0.101	2	MS	RMJ	02/09/10 04:37	100208-7	941798
7440-43-9	Cadmium	532	ug/Kg	U	106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-70-2	Calcium	346000	ug/Kg		8510	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-47-3	Chromium	7370	ug/Kg		160	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-48-4	Cobalt	410	ug/Kg	J	160	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-50-8	Copper	3100	ug/Kg		317	1060	1060	1	P	HSC	02/09/10 08:30	020910-1	950667
7439-89-6	Iron	8080000	ug/Kg		8510	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-92-1	Lead	5910	ug/Kg		266	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-95-4	Magnesium	337000	ug/Kg		9040	31900	31900	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-96-5	Manganese	326000	ug/Kg		213	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-97-6	Mercury	12.5	ug/kg	U	4.26	12.5	12.5	1	AV	JXLI	01/28/10 13:31	012810S1-8	943309
7440-02-0	Nickel	1.53	mg/kg		0.101	0.405	0.405	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-09-7	Potassium	291000	ug/Kg	*	6810	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7782-49-2	Selenium UJ,16a	1.01	mg/kg	UN	0.507	1.01	1.01	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-22-4	Silver	393	ug/Kg	J	106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-23-5	Sodium	89900	ug/Kg		7450	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-28-0	Thallium UJ,16a	0.203	mg/kg	UN	0.0608	0.203	0.203	2	MS	RMJ	02/06/10 23:56	100206-6	941798
7440-61-1	Uranium	0.628	mg/kg		0.0128	0.0389	0.0389	2	MS	SKJ	02/09/10 12:38	100209-3	950023
7440-62-2	Vanadium	3210	ug/Kg		106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-66-6	Zinc	44900	ug/Kg	*	351	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.525	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.509	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.547	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.504	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628015

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7283

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9870000	ug/Kg	*	8090	23800	23800	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-36-0	Antimony	527	ug/Kg	J	392	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-38-2	Arsenic	2.13	mg/kg		0.237	1.18	1.18	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-39-3	Barium	107000	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-41-7	Beryllium	1.22	mg/kg	N	0.0237	0.118	0.118	2	MS	RMJ	02/09/10 04:40	100208-7	941798
7440-43-9	Cadmium	120	ug/Kg	J	119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-70-2	Calcium	3720000	ug/Kg		9510	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-47-3	Chromium	17400	ug/Kg		178	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-48-4	Cobalt	3910	ug/Kg		178	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-50-8	Copper	7700	ug/Kg		338	1130	1130	1	P	HSC	02/09/10 08:34	020910-1	950667
7439-89-6	Iron	13500000	ug/Kg		9510	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-92-1	Lead	15300	ug/Kg		297	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-95-4	Magnesium	1770000	ug/Kg		10100	35700	35700	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-96-5	Manganese	415000	ug/Kg		238	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-97-6	Mercury	26.7	ug/kg		4.27	12.6	12.6	1	AV	JXL1	01/28/10 13:36	012810S1-8	943309
7440-02-0	Nickel	5.84	mg/kg		0.118	0.474	0.474	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-09-7	Potassium	1460000	ug/Kg	*	7610	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7782-49-2	Selenium UJ,16a	1.18	mg/kg	UN	0.592	1.18	1.18	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-22-4	Silver	651	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-23-5	Sodium	82400	ug/Kg		8320	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-28-0	Thallium U,14b	0.124	mg/kg	JN	0.0711	0.237	0.237	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-61-1	Uranium	6.15	mg/kg		0.015	0.0455	0.0455	2	MS	SKJ	02/09/10 12:41	100209-3	950023
7440-62-2	Vanadium	19800	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-66-6	Zinc	38400	ug/Kg	*	392	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.514	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.516	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.584	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.537	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.542	g	50	mL	02/08/10	BXA1

MAD
02/25/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628016

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7282

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL


%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1790000	ug/Kg	*	7250	21300	21300	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-38-2	Arsenic	0.457	mg/kg	J	0.211	1.06	1.06	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-39-3	Barium	12500	ug/Kg		107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-41-7	Beryllium	0.795	mg/kg	N	0.0211	0.106	0.106	2	MS	RMJ	02/09/10 04:44	100208-7	941798
7440-43-9	Cadmium	533	ug/Kg	U	107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-70-2	Calcium	404000	ug/Kg		8530	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-47-3	Chromium	3270	ug/Kg		160	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-48-4	Cobalt	436	ug/Kg	J	160	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-50-8	Copper	2350	ug/Kg		292	974	974	1	P	HSC	02/09/10 08:37	020910-1	950667
7439-89-6	Iron	8180000	ug/Kg		8530	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-92-1	Lead	8660	ug/Kg		267	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-95-4	Magnesium	300000	ug/Kg		9060	32000	32000	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-96-5	Manganese	335000	ug/Kg		213	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-97-6	Mercury	12.7	ug/kg	U	4.32	12.7	12.7	1	AV	JXL	01/28/10 13:38	01281051-8	943309
7440-02-0	Nickel	0.913	mg/kg		0.106	0.422	0.422	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-09-7	Potassium	278000	ug/Kg	*	6820	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7782-49-2	Selenium UJ,16a	1.06	mg/kg	UN	0.528	1.06	1.06	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-22-4	Silver	353	ug/Kg	J	107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-23-5	Sodium	211000	ug/Kg		7460	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-28-0	Thallium UJ,16a	0.211	mg/kg	UN	0.0633	0.211	0.211	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-61-1	Uranium	0.547	mg/kg		0.0129	0.0391	0.0391	2	MS	SKJ	02/09/10 12:43	100209-3	950023
7440-62-2	Vanadium	3280	ug/Kg		107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-66-6	Zinc	50000	ug/Kg	*	352	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.505	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.503	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.546	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.547	g	50	mL	02/08/10	BXA1

MAD
02/25/10

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

Section I.			
REQUEST NUMBER: <u>10-1226</u>	VALIDATION DATE: <u>02/25/2010</u>	LAB CODE: <u>GEL</u>	
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>			
VALIDATOR: <u>Mary Donovan</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
<input checked="" type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	<input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): <u>total cyanide only</u>			

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

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


1. It should be noted that the parent samples for the matrix QC associated with samples RE12-10-7262, -7266, -7258, -7268, -7265, -7261, -7259, -7263 and -7271 were from other LANL RNs. No sample data were qualified as a result.

Reviewed by: ETM


Level: 1

Date: 2/26/10


VALIDATOR'S SIGNATURE: Mary A. Donovan DATE: 02/25/2010

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

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

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

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

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

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

Certificate of Analysis

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7262
Sample ID: 244628001
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 8.86%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.6	274	ug/kg	1	AXC2	01/21/10	1216	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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02/25/10

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Certificate of Analysis

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7266
Sample ID: 244628002
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 19.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	84.7	311	ug/kg	1	AXC2	01/21/10	1216	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7258
Sample ID: 244628003
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 14.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	79.3	292	ug/kg	1	AXC2	01/21/10	1217	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7268
Sample ID: 244628004
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 9.81%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.4	277	ug/kg	1	AXC2	01/21/10	1222	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7265
Sample ID: 244628005
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.16%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.5	266	ug/kg	1	AXC2	01/21/10	1223	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7261
Sample ID: 244628006
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
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 "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.4	288	ug/kg	1	AXC2	01/21/10	1224	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7259
Sample ID: 244628007
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.49%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.7	267	ug/kg	1	AXC2	01/21/10	1225	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7263
Sample ID: 244628008
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 5.59%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.0	265	ug/kg	1	AXC2	01/21/10	1225	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7271
Sample ID: 244628009
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 7.57%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	01/21/10	1226	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7260
Sample ID: 244628010
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 19.9%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	J	119	84.9	312	ug/kg	1	AXC2	01/21/10	1052	941971	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Certificate of Analysis

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7267
Sample ID: 244628011
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 7.12%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.6	245	ug/kg	1	AXC2	01/21/10	1056	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7264
Sample ID: 244628012
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 11%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	70.8	260	ug/kg	1	AXC2	01/21/10	1057	941971	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Certificate of Analysis

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7270
Sample ID: 244628013
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 12.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.3	269	ug/kg	1	AXC2	01/21/10	1058	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7269
Sample ID: 244628014
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	64.6	237	ug/kg	1	AXC2	01/21/10	1058	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7283
Sample ID: 244628015
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 18.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	124	83.1	306	ug/kg	1	AXC2	01/21/10	1059	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7282
Sample ID: 244628016
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	65.9	242	ug/kg	1	AXC2	01/21/10	1100	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Tuesday, January 12, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1226

LOS ALAMOS

REQUEST NUMBER: 10-1226

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/11/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2446287

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7262	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7266	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7258	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7268	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7265	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7261	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7259	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7263	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7271	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7260	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7267	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7264	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7270	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7269	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7283	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7282	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

1/12/10

1400

Printed Name

Signature

Greg Tyler

1-13-10

0855

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Tuesday, January 12, 2010
LOS ALAMOS
NATIONAL LABORATORY

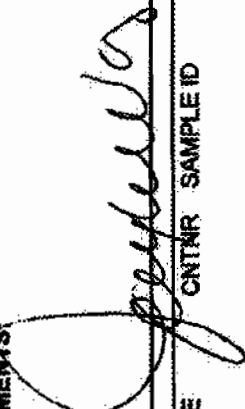
ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-1226
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyze the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/12/2010
TURNAROUND/REPORT DUE: 2/11/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-6020	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7260	R	1/8/2010	
		1	RE12-10-7261	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	
		1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7264	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	

Tuesday, January 12, 2010

Page 2 of 3

REQUEST NUMBER: 10-1226

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.6020	1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846.6850	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7260	R	1/8/2010	
		1	RE12-10-7261	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	
		1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7264	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	
		1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846.7471A	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7260	R	1/8/2010	
		1	RE12-10-7261	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	

Tuesday, January 12, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7264	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	
		1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846:9012A	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7260	R	1/8/2010	
		1	RE12-10-7261	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	
		1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7264	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	
		1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	



January 18, 2010

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

Re: LANL ER Project
Work Order: 244628
SDG: 10-1226

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 13, 2010, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1226
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 244628
SDG: 10-1226

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 244628
SDG # : 10-1226**

January 18, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 13, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

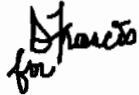
<u>Laboratory ID</u>	<u>Client ID</u>
244628001	RE12-10-7262
244628002	RE12-10-7266
244628003	RE12-10-7258
244628004	RE12-10-7268
244628005	RE12-10-7265
244628006	RE12-10-7261
244628007	RE12-10-7259
244628008	RE12-10-7263
244628009	RE12-10-7271
244628010	RE12-10-7260
244628011	RE12-10-7267
244628012	RE12-10-7264
244628013	RE12-10-7270
244628014	RE12-10-7269
244628015	RE12-10-7283
244628016	RE12-10-7282

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 18 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

Tuesday, January 12, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1226

LOS ALAMOS

REQUEST NUMBER: 10-1226

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/11/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2446287.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7262	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7266	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7258	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7268	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7265	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7261	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7259	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7263	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7271	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7260	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7267	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7264	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7270	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7269	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7283	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-7282	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Tuesday, January 12, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/12/2010

TURNAROUND/REPORT DUE: 2/11/2010

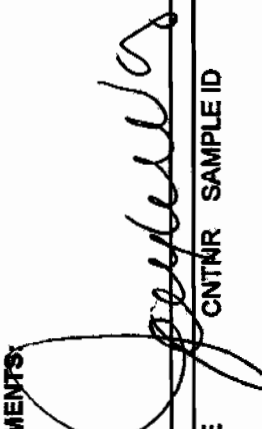
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:
LANL Request Number: 10-1226
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Page 1 of 3
REQUEST NUMBER: 10-1226

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-6020					
		1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7260	R	1/8/2010	
		1	RE12-10-7261	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	
		1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7264	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	

Tuesday, January 12, 2010

REQUEST NUMBER: 10-1226

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846:6850	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7280	R	1/8/2010	
		1	RE12-10-7281	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	
		1	RE12-10-7263	R	1/8/2010	
		1	RE12-10-7284	R	1/8/2010	
		1	RE12-10-7265	R	1/8/2010	
		1	RE12-10-7266	R	1/8/2010	
		1	RE12-10-7267	R	1/8/2010	
		1	RE12-10-7268	R	1/8/2010	
		1	RE12-10-7269	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846:7471A	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7280	R	1/8/2010	
		1	RE12-10-7281	R	1/8/2010	
		1	RE12-10-7262	R	1/8/2010	

Tuesday, January 12, 2010

Page 3 of 3

REQUEST NUMBER: 10-1226

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE12-10-7283	R	1/8/2010	
		1	RE12-10-7284	R	1/8/2010	
		1	RE12-10-7285	R	1/8/2010	
		1	RE12-10-7286	R	1/8/2010	
		1	RE12-10-7287	R	1/8/2010	
		1	RE12-10-7288	R	1/8/2010	
		1	RE12-10-7289	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
	SW-846:9012A	1	RE12-10-7258	R	1/8/2010	
		1	RE12-10-7259	R	1/8/2010	
		1	RE12-10-7280	R	1/8/2010	
		1	RE12-10-7281	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	
		1	RE12-10-7284	R	1/8/2010	
		1	RE12-10-7285	R	1/8/2010	
		1	RE12-10-7286	R	1/8/2010	
		1	RE12-10-7287	R	1/8/2010	
		1	RE12-10-7288	R	1/8/2010	
		1	RE12-10-7289	R	1/8/2010	
		1	RE12-10-7270	R	1/8/2010	
		1	RE12-10-7271	R	1/8/2010	
		1	RE12-10-7282	R	1/8/2010	
		1	RE12-10-7283	R	1/8/2010	



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-1226	
Received By: Greg Tyler		Date Received: 1/13/10	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-6C 10, 12, 13C
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 4887 1C 7209 7849 4854 10C
 7209 7849 4924 1C 7209 7849 4800 12C
 7209 7849 4810 2C 7209 7849 4843 13C
 7209 7849 4898 3C
 7209 7849 4946 4C
 7209 7849 4865 5C
 7209 7849 4876 6C
 7209 7849 4935 6C

ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

SHIP DATE: 12JAN10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0352VA00

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2 of 2 WED - 13JAN A1
SH 7209 7849 4887 PRIORITY OVERNIGHT

TRN 7209 7849 4876 0201

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ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

SHIP DATE: 12JAN10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

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3 of 3 WED - 13JAN A1
7209 7849 4810 PRIORITY OVERNIGHT

7209 7849 4795 0201

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Page 11 of 1015

ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

SHIP DATE: 12JAN10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
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TRN 7209 7849 4924 WED - 13JAN A1
0201 PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 655-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

SHIP DATE: 12JAN10
ACTWGT: 57.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
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0201 PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 6B010AMR3A05529E00

4°



WED - 13JAN A1
PRIORITY OVERNIGHT
TRKH 7209 7849 4946
(0201)

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 6B010AMR3A05529E00

6°



WED - 13JAN A1
PRIORITY OVERNIGHT
1 of 2
TRKH 7209 7849 4876
(0201)

XX CHSA

29407
SC-US
CHS

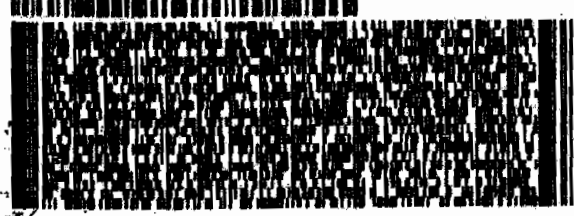
ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 6B010AMR3A03529A00

5°



WED - 13JAN A1
PRIORITY OVERNIGHT
3 of 3
TRKH 7209 7849 4865
(0201)
Metrx 7209 7849 4843 (0201)

XX CHSA

29407
SC-US
CHS



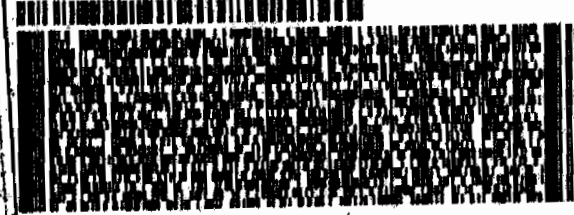
ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 61.0 LB MAN
CAD: 0014176/CAFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 6B010AMR3A05529E00

6°



WED - 13JAN A1
PRIORITY OVERNIGHT
TRKH 7209 7849 4935
(0201)

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29407
SC-US
CHS

ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 45.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

10°

CHARLESTON SC 29407

(843) 666-8171

REF: 68010AMR3A0352VA00

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2 of 3
MPS# 0263 7209 7849 4854
Matr# 7209 7849 4843 0201

WED - 13JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



Part # 156140-434 NRT V3.04-0

ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 59.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

12°

CHARLESTON SC 29407

(843) 666-8171

REF: 68010AMR2A0515BYD0

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Express



2 of 3
MPS# 0263 7209 7849 4800
Matr# 7209 7849 4795 0201

WED - 13JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



Part # 156140-434 NRT V3.04-0

ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 12JAN10
ACTWGT: 38.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

13°

CHARLESTON SC 29407

(843) 666-8171

REF: 68010AMR3A0352VA00

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Express



1 of 3
TRK# 0201 7209 7849 4843
NN MASTER NN

WED - 13JAN A1
PRIORITY OVERNIGHT

29407
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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1226**

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: 942322

Prep Batch Number: 942321

Sample Analysis

Sample ID	Client ID
244628001	RE12-10-7262
244628002	RE12-10-7266
244628003	RE12-10-7258
244628004	RE12-10-7268
244628005	RE12-10-7265
244628006	RE12-10-7261
244628007	RE12-10-7259
244628008	RE12-10-7263
244628009	RE12-10-7271
244628010	RE12-10-7260
244628011	RE12-10-7267
244628012	RE12-10-7264
244628013	RE12-10-7270
244628014	RE12-10-7269

10-1226-PERLCMS

Page 1 of 4

244628015	RE12-10-7283
244628016	RE12-10-7282
1202017271	Interference Check Sample (ICS)
1202017267	Method Blank (MB)
1202017268	Laboratory Control Sample (LCS)
1202017269	244628001(RE12-10-7262) Matrix Spike (MS)
1202017270	244628001(RE12-10-7262) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

10-1226-PERLCMS

Page 2 of 4

QC Sample Designation

Sample 244628001 (RE12-10-7262) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

Retention Time

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

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

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

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

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Heather K. Mauer Date: 01/28/10

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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7262

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628001

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 91.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:00	per0125044a
14797-73-0	Perchlorate-101	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate-O(18)			5.58	ug/kg		1	25-JAN-10 22:00	per0125044a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7266

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628002

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 80

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:55	per0125050a
14797-73-0	Perchlorate-101	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate-O(18)			6.88	ug/kg		1	25-JAN-10 22:55	per0125050a

[^] 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 %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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7258

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628003

Date Filtered: 25-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	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:04	per0125051a
14797-73-0	Perchlorate-101	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate-O(18)			6.86	ug/kg		1	25-JAN-10 23:04	per0125051a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7268

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628004

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 90.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:13	per0125052a
14797-73-0	Perchlorate-101	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate-O(18)			6.30	ug/kg		1	25-JAN-10 23:13	per0125052a

[^] 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: 242321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7265
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628005
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 93.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.533	ug/kg	U	1	25-JAN-10 23:22	per0125053a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:22	per0125053a
14797-73-0	Perchlorate-101	.533	2.13	0.557	ug/kg	J	1	25-JAN-10 23:22	per0125053a
	Perchlorate-O(18)			6.27	ug/kg		1	25-JAN-10 23:22	per0125053a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7261

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628006

Date Filtered: 25-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	25-JAN-10 23:31	per0125054a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:31	per0125054a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	25-JAN-10 23:31	per0125054a
	Perchlorate-O(18)			7.19	ug/kg		1	25-JAN-10 23:31	per0125054a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7259

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628007

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 23.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:40	per0125055a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate-O(18)			5.95	ug/kg		1	25-JAN-10 23:40	per0125055a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7263

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628008

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:49	per0125056a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate-O(18)			6.25	ug/kg		1	25-JAN-10 23:49	per0125056a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7271

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628009

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 92.4

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	25-JAN-10 23:58	per0125057a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:58	per0125057a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	25-JAN-10 23:58	per0125057a
	Perchlorate-O(18)			6.21	ug/kg		1	25-JAN-10 23:58	per0125057a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7260

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628010

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 80

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:34	per0125061a
14797-73-0	Perchlorate-101	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate-O(18)			7.86	ug/kg		1	26-JAN-10 00:34	per0125061a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846.6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7267
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628011
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 92.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:44	per0125062a
14797-73-0	Perchlorate-101	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate-O(18)			5.67	ug/kg		1	26-JAN-10 00:44	per0125062a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7264

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628012

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:53	per0125063a
14797-73-0	Perchlorate-101	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate-O(18)			6.69	ug/kg		1	26-JAN-10 00:53	per0125063a

[^] 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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7270

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628013

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:02	per0125064a
14797-73-0	Perchlorate-101	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Perchlorate-O(18)			6.56	ug/kg		1	26-JAN-10 01:02	per0125064a

[^] 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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7269
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628014
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 94

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:11*	per0125065a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate-O(18)			5.76	ug/kg		1	26-JAN-10 01:11	per0125065a

^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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7283

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628015

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:20	per0125066a
14797-73-0	Perchlorate-101	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate-O(18)			7.41	ug/kg		1	26-JAN-10 01:20	per0125066a

[^] 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: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7282

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628016

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 93.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:29	per0125067a
14797-73-0	Perchlorate-101	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate-O(18)			6.00	ug/kg		1	26-JAN-10 01:29	per0125067a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1226

Extract Batch Code: 942321

Date Filtered: 25-JAN-10

Matrix: SOIL

Sample ID: 1202017268

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.01	ug/kg	101		70 - 130
Perchlorate Isotope Ratio		3.13				-
Perchlorate-101	2.00	1.91	ug/kg	95.5		70 - 130
Perchlorate-O(18)		5.02	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): 10-1226

Extract Batch Code: 942321

Date Filtered: 25-JAN-10

Matrix: SOIL

Sample ID: 1202017271

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.08	ug/kg	104		70 - 130
Perchlorate Isotope Ratio		2.92				
Perchlorate-101	2.00	2.12	ug/kg	106		70 - 130
Perchlorate-O(18)		5.17	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: Charliers W. Wilson

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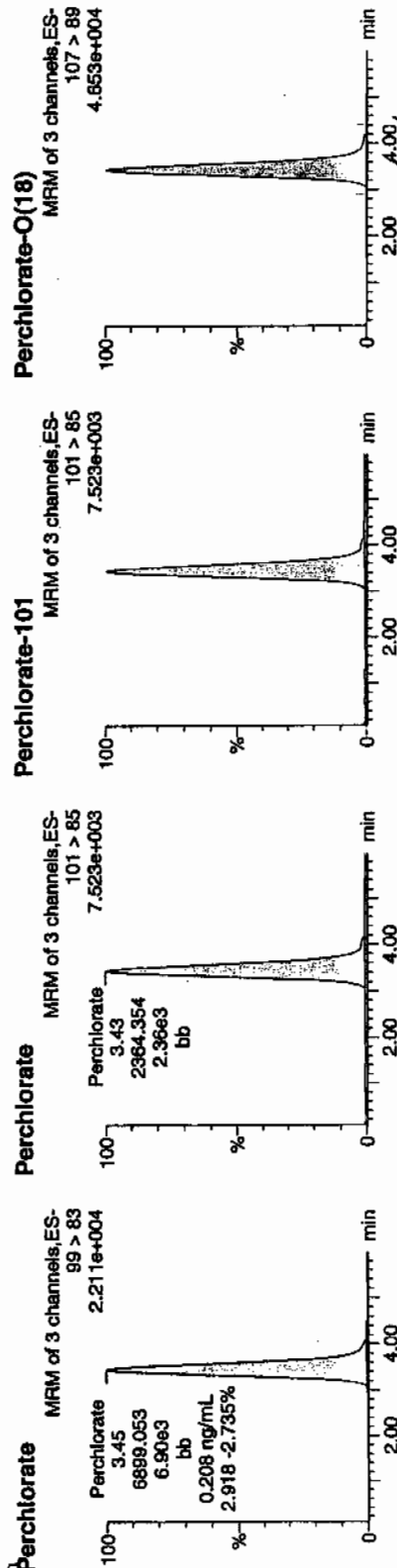
Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Sample Name: per0125043a
Date: 25-Jan-2010
Time: 21:51:23
ID: 1202017271
Vial: 2:1C

01-26-10

LANC | 942322 | 50202 | 125 | 1.1



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202017271	Perchlorate	99 > 83	3.45	6899.053	6899.053	bb			0.2085	104.23	4.23	3438.4...	2.92
1202017271	Perchlorate-101	101 > 85	3.43	2364.354	2364.354	bb			0.2123	106.13	6.13	955.955	
1202017271	Perchlorate-O(18)	107 > 89	3.43	14435.530	14435.530	bb			0.5166	103.33	3.33	4553.7...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1226

Extract Batch Code: 942321

Date Extracted: 25-JAN-10

GEL MS/PS ID: 1202017262

Client ID: RE12-10-7262

GEL MSD/PSD ID: 1202017270

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.19	0.137	ug/kg	2.54	110		2.86	124		11.8		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.17			3.07			0			-
Perchlorate-101	2.19	0.161	ug/kg	2.38	101		2.76	119		14.9		30	75 - 125
Perchlorate-O(18)	0	5.58	ug/kg	5.86			6.26			6.55			-

[^] 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): 10-1226

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	25-JAN-10	per0125001a	IPB001
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125001a	IPB001
Perchlorate	0.00	0	NA	25-JAN-10	per0125002a	IPB001
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125002a	IPB001

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

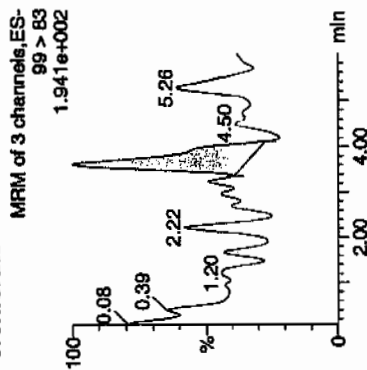
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Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

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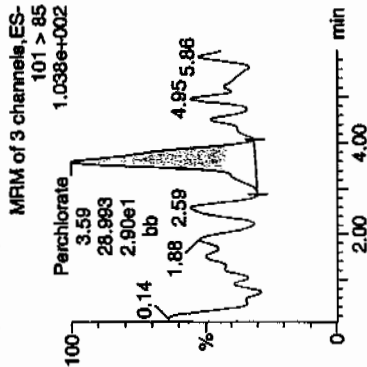
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Time: 15:29:26
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01-24-10

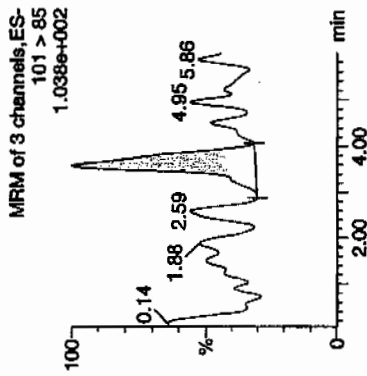
Perchlorate



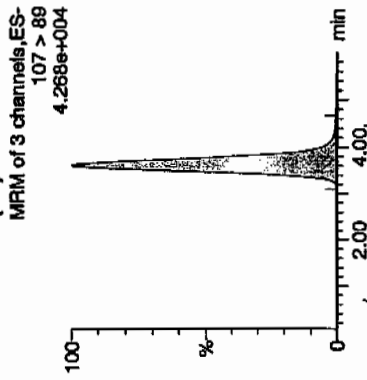
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	3.59	47.329	47.329	bb			0.0014			9.522	1.63
IPB001	Perchlorate-101	101 > 85	3.59	28.993	28.993	bb			0.0026			14.040	
IPB001	Perchlorate-O(18)	107 > 89	3.62	14430.339	14430.339	bb			0.5165	103.29	3.29	1313.8...	

20.050

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

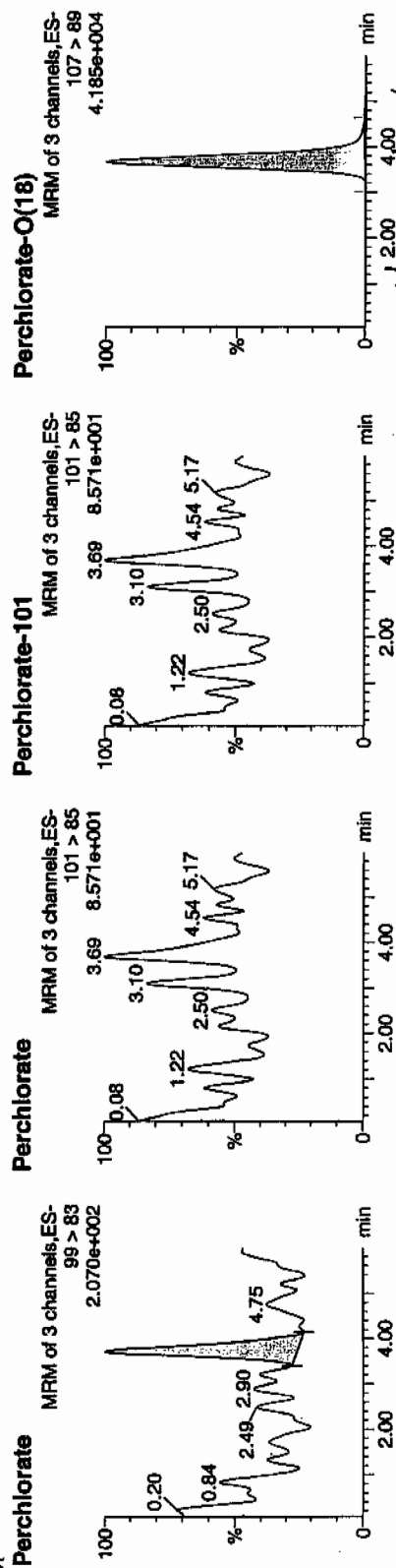
Name: per0125002a

Date: 25-Jan-2010

Time: 15:38:40

ID: IPB001

Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	3.71	46.956	46.956	bb			0.0014			8.953	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.67	14207.477	14207.477	bb			0.5085	101.70	1.70	5236.7...	

Perchlorate Continuing Calibration Blank

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GEL Job No.(SDG): 10-1226

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	25-JAN-10	per0125008a	IPB002
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125008a	IPB002
Perchlorate	0.00	0	NA	25-JAN-10	per0125010a	IPB003
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125010a	IPB003
Perchlorate	0.00	0	NA	25-JAN-10	per0125023a	IPB004
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125023a	IPB004
Perchlorate	0.00	0	NA	25-JAN-10	per0125036a	IPB005
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125036a	IPB005
Perchlorate	0.00	0	NA	25-JAN-10	per0125040a	IPB006
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125040a	IPB006
Perchlorate	0.00	0	NA	25-JAN-10	per0125048a	IPB007
Perchlorate-101	0.00	0	NA	25-JAN-10	per0125048a	IPB007
Perchlorate	0.00	0	NA	26-JAN-10	per0125059a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1226

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

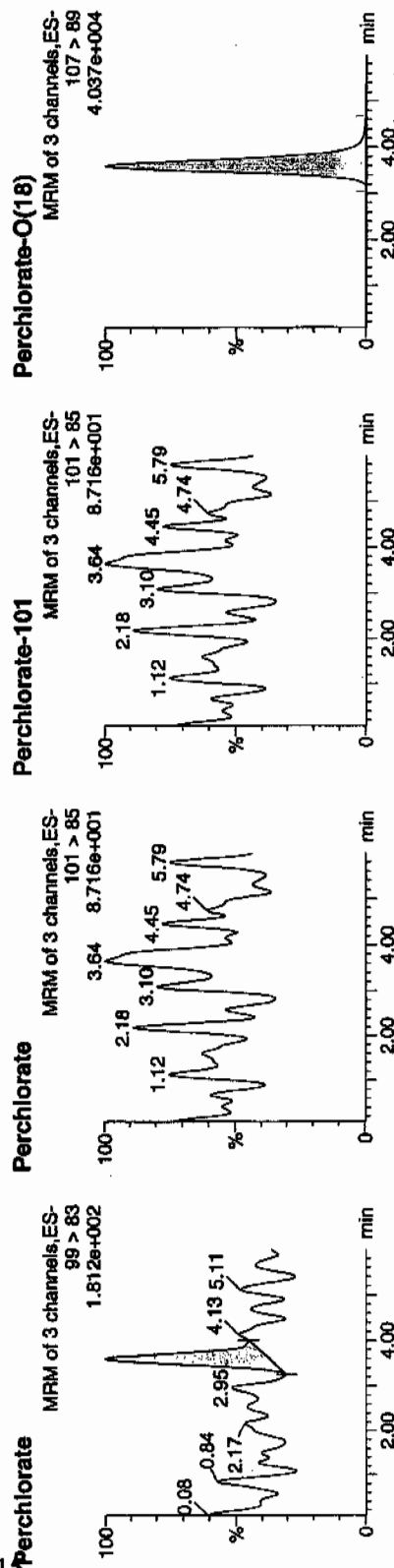
Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	26-JAN-10	per0125059a	IPB008
Perchlorate	0.00	0	NA	26-JAN-10	per0125069a	IPB009
Perchlorate-101	0.00	0	NA	26-JAN-10	per0125069a	IPB009

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Sample Name: per0125008a
Date: 25-Jan-2010
Time: 16:32:56
ID: IPB002
Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	ModDate	ModTime	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB002	Perchlorate	99 > 83	3.59	33.365	33.365	bb			0.0010			15.606	0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.59	13453.680	13453.680	bb			0.4815	96.30	-3.70	9802.8...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Page 10

Name: per0125010a

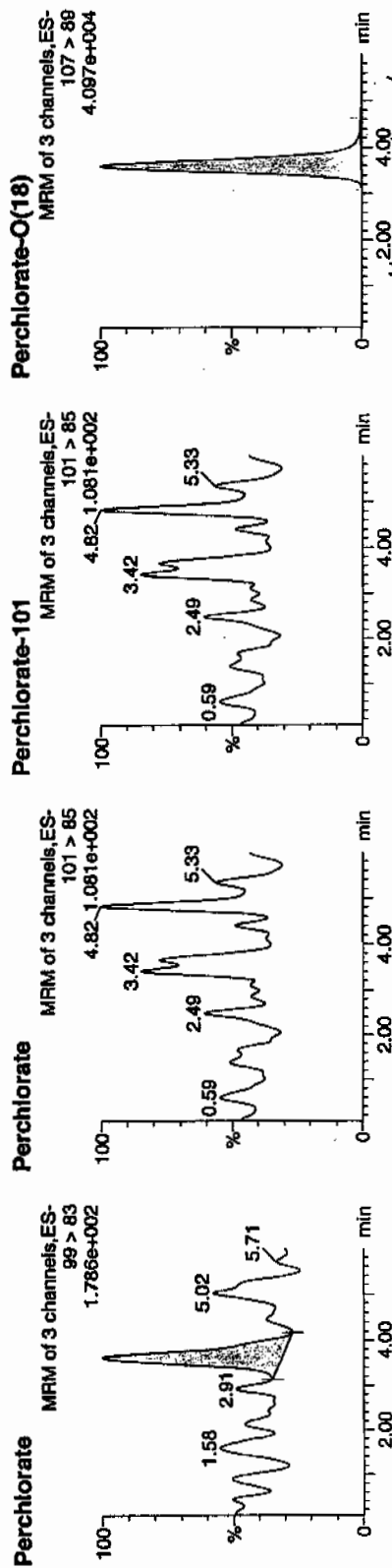
Date: 25-Jan-2010

Time: 16:51:11

ID: IPB003

Vial: 1:1,A

α-6-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Res	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	3.62	47.057	47.057	bb			0.0014			18.234	0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	3.59	13495.417	13495.417	bb			0.4830	96.80	-3.40	9571.4...	

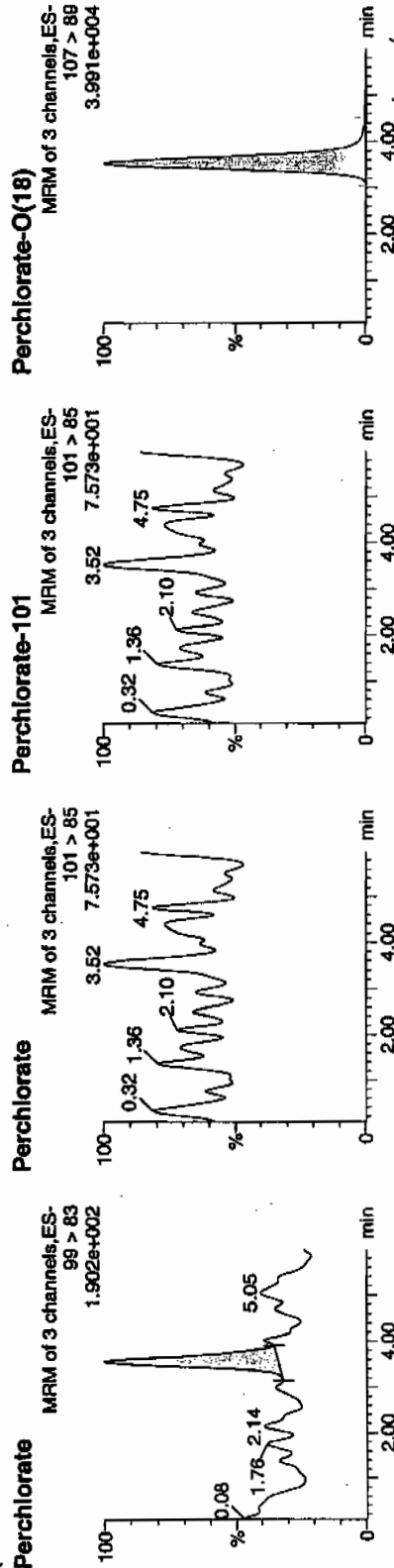
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Sample Name: per0125023a
Date: 25-Jan-2010
Time: 18:48:43
ID: IPB004
Vial: 1:1,A

Cum
01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	3.55	34.961	34.961	bb			0.0011			22.383	0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	3.53	13131.008	13131.008	bb			0.4700	93.99	-6.01	7556.5...	

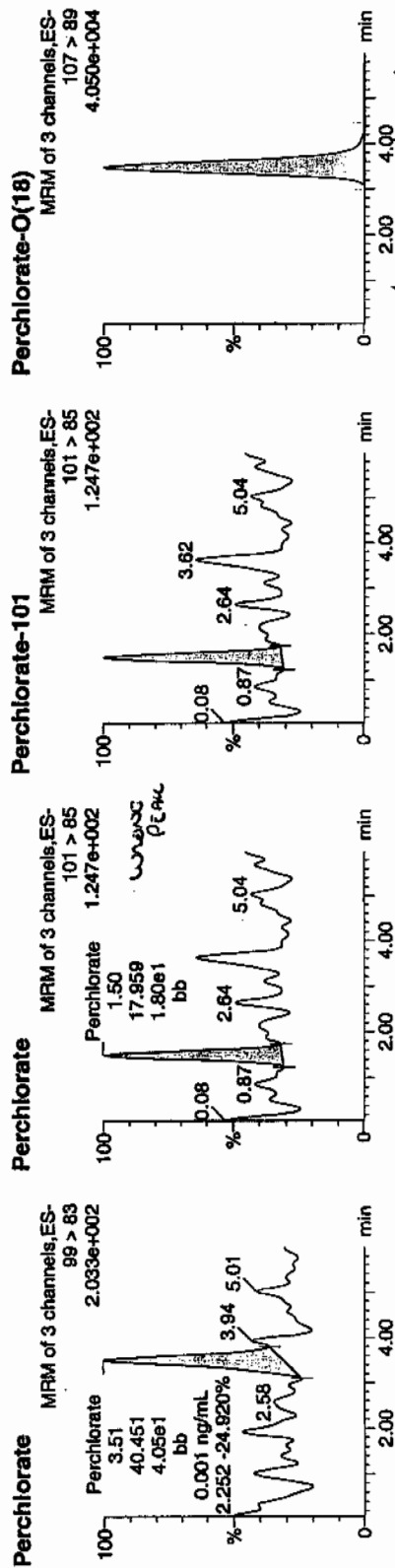
Quantify Sample Report MassLynx 4.0 SP4 The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125036a
Date: 25-Jan-2010
Time: 20:46:20
ID: IPB005
Vial: 1:1,A

01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB005	Perchlorate	99 > 83	3.51	40.451	40.451	bb			0.0012	5.504	2.25	33.956	2.25
IPB005	Perchlorate-101	101 > 85	1.50	17.959	17.959	bb			0.0016	95.24	-4.76	3939.3...	
IPB005	Perchlorate-O(18)	107 > 89	3.48	13305.957	13305.957	bb			0.4762				

4.05 0.12 3.10

0.014
20.0300

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

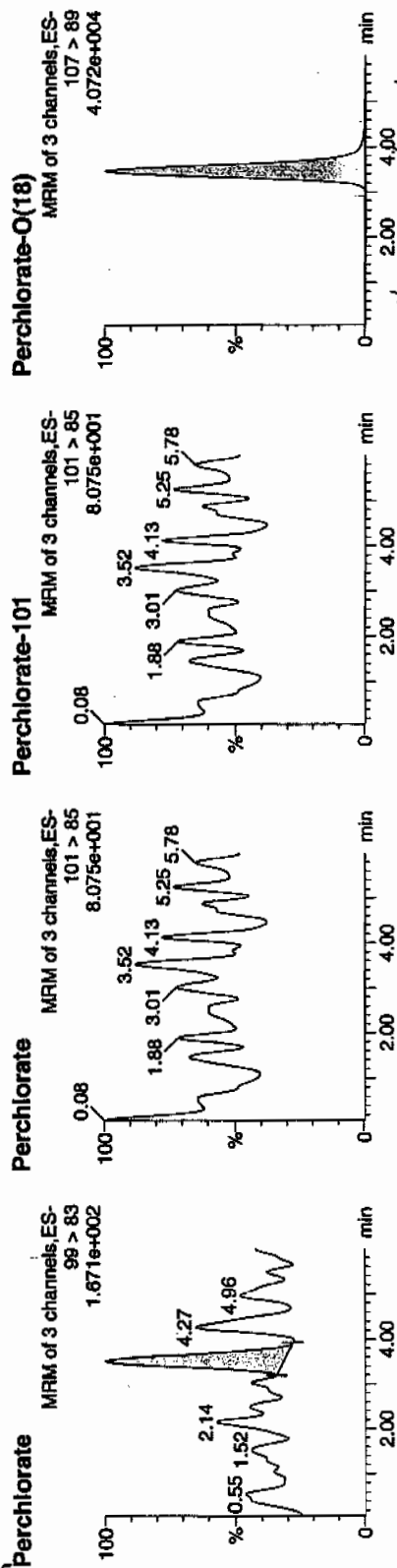
Page 40 of 70

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Page 32
Sample Name: per0125040a
Date: 25-Jan-2010
Time: 21:22:30
ID: IPB006
Vial: 1:1,A

01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83	3.51	36.835	36.835	bb			0.0011			24.467	0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	3.46	13399.307	13399.307	bb			0.4796	95.91	-4.09	5655.4...	

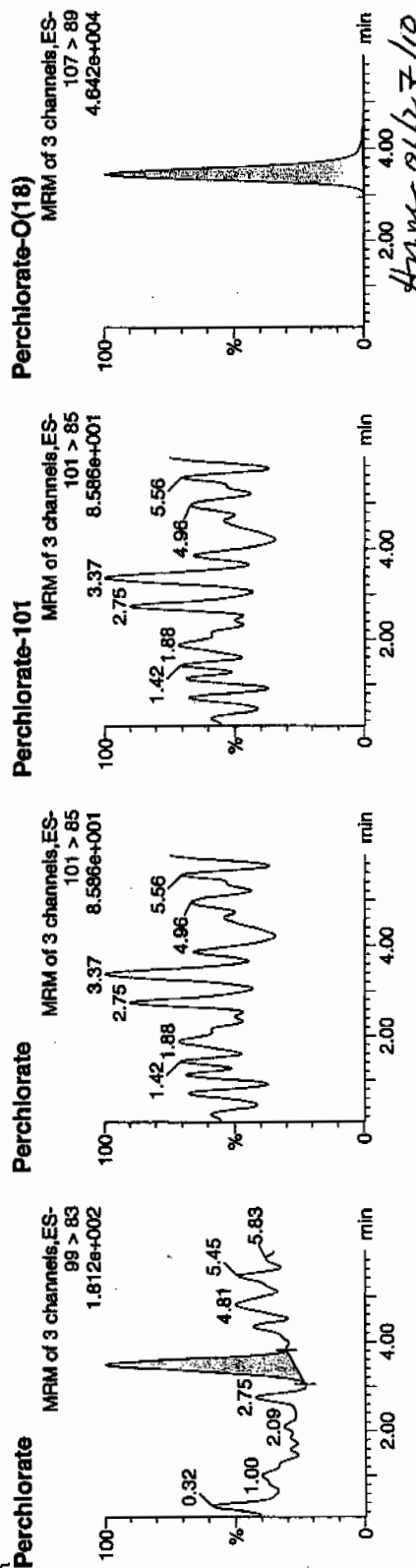
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Sample Name: per0125048a
Date: 25-Jan-2010
Time: 22:36:57
ID: IPB007
Vial: 1:1,A

Ans
01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	Int	%Rec	%Dev	SN	Ion Ratio
IPB007	Perchlorate	99 > 83	3.48	41.606	41.606	bb			0.0013			7.393	0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	3.45	15057.840	15057.840	bb			0.5389	107.78	7.78	1194.7...	

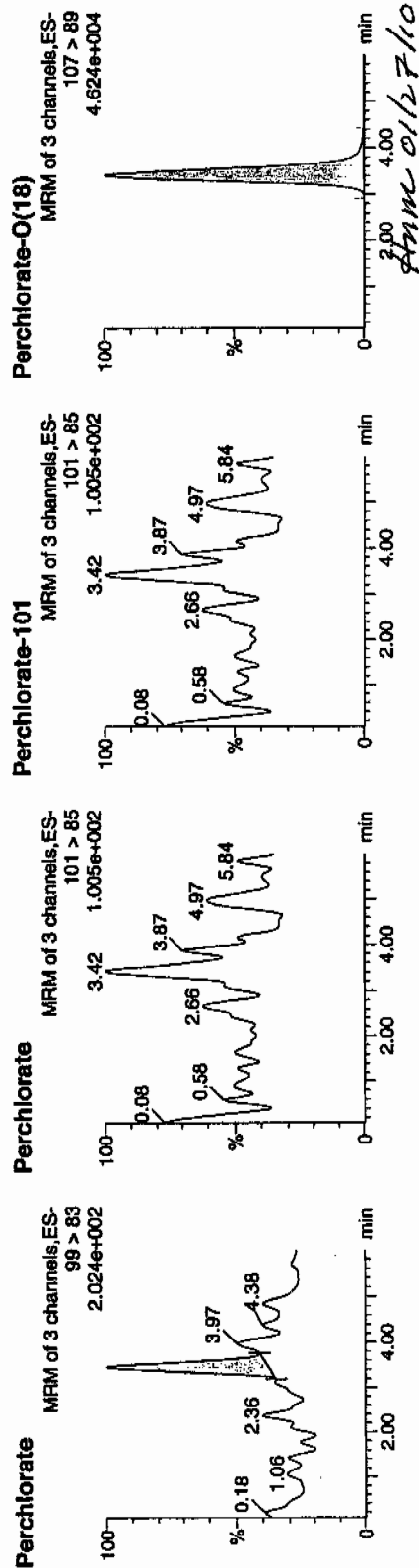
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125059a
Date: 26-Jan-2010
Time: 00:16:44
ID: IPB008
Gial: 1:1,A

01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83	3.45	30.278	30.278	bb			0.0009			7.964	0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	3.42	14854.971	14854.971	bb			0.5317	106.33	6.33	3742.4...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125069a

Date: 26-Jan-2010

Time: 01:47:30

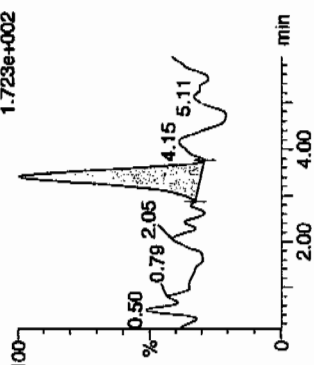
ID: IPB009

Vial: 1:1,A

Perchlorate

MRM of 3 channels, ES-

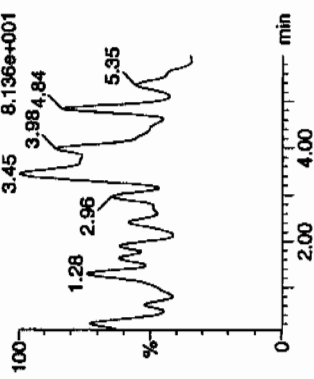
99 > 83
1.723e+002



Perchlorate

MRM of 3 channels, ES-

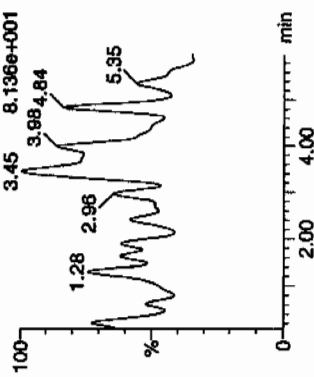
101 > 85
8.136e+001



Perchlorate-101

MRM of 3 channels, ES-

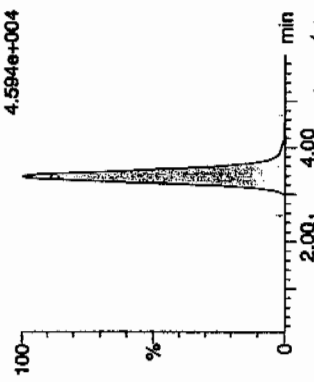
101 > 85
8.136e+001



Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89
4.594e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB009	Perchlorate	99 > 83	3.40	43.601	43.601	bb			0.0013			23.134	0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	3.38	14847.768	14847.768	bb			0.5314	106.28	✓	6.28	479.137

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: naib 01-08-08.ca

Calibration Report - MS1 Static

Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

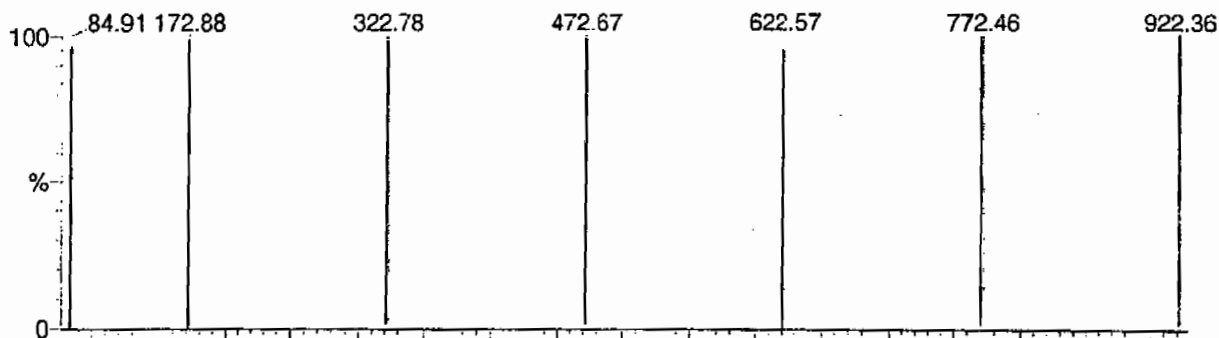
DATA HIGHLIGHTED BY CURS 01-07-08

Data file: STATMS1 - Uncalibrated

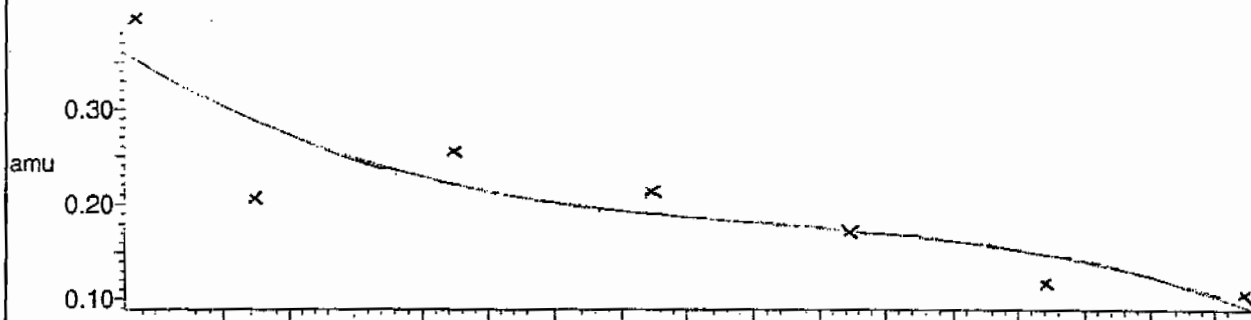
7 matches of 7 tested references



Reference file: Naib

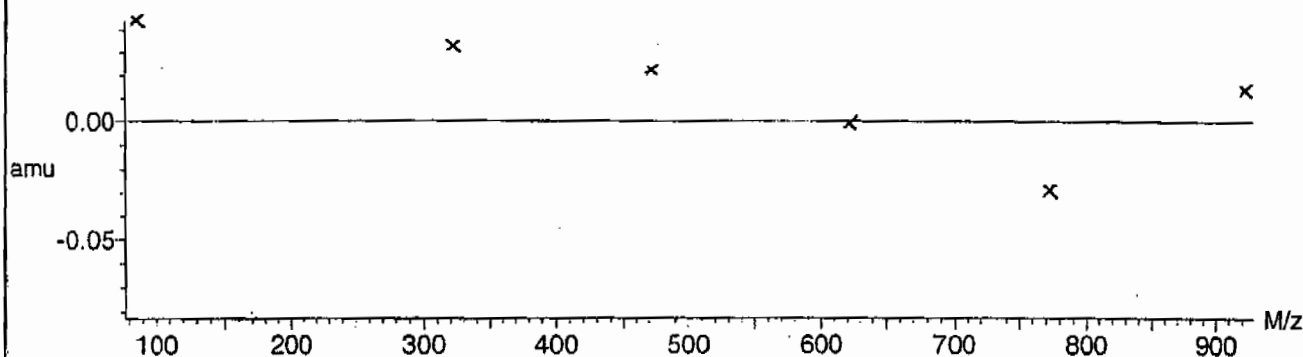


Mass difference (Raw - Ref mass)



Residuals

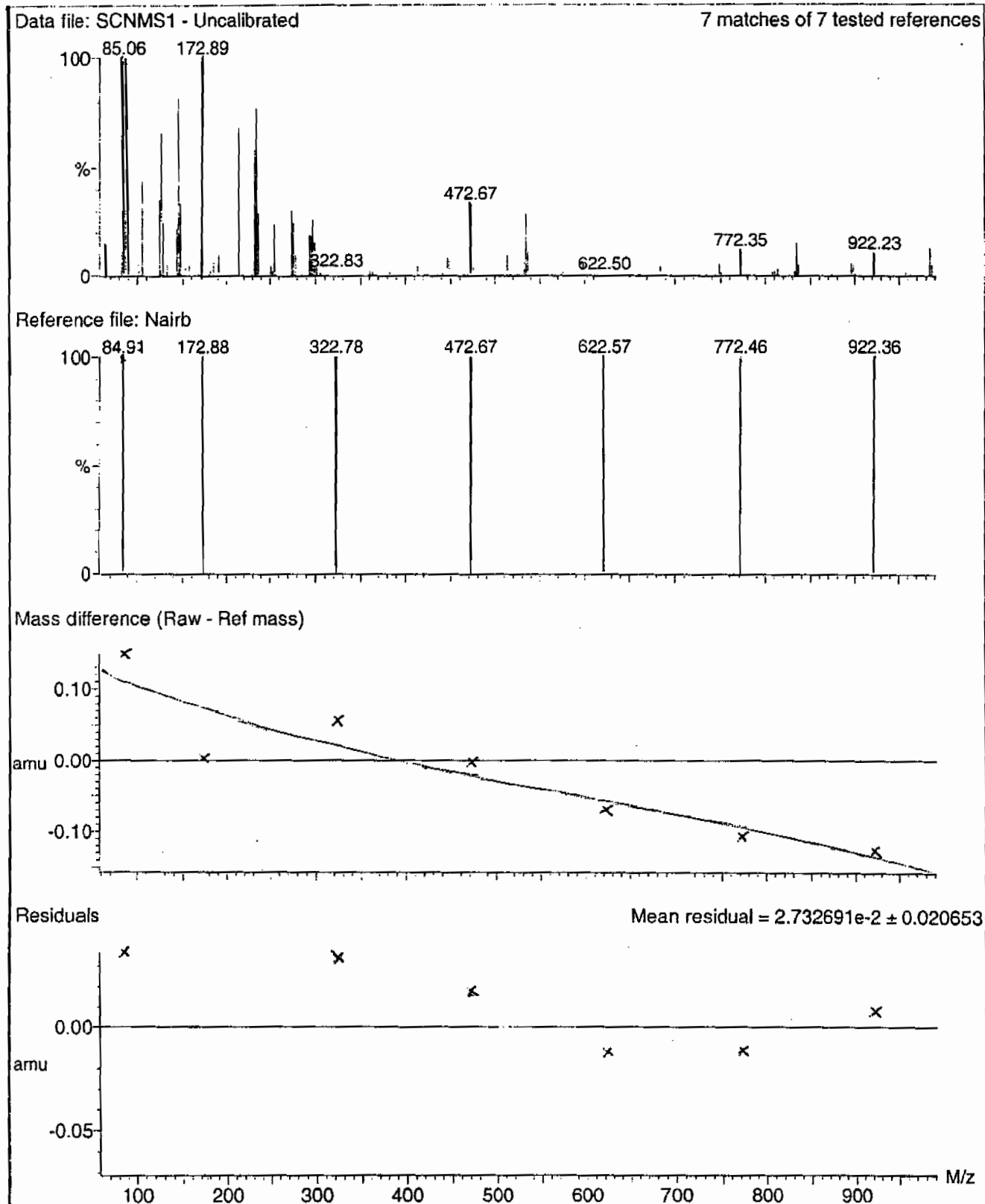
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

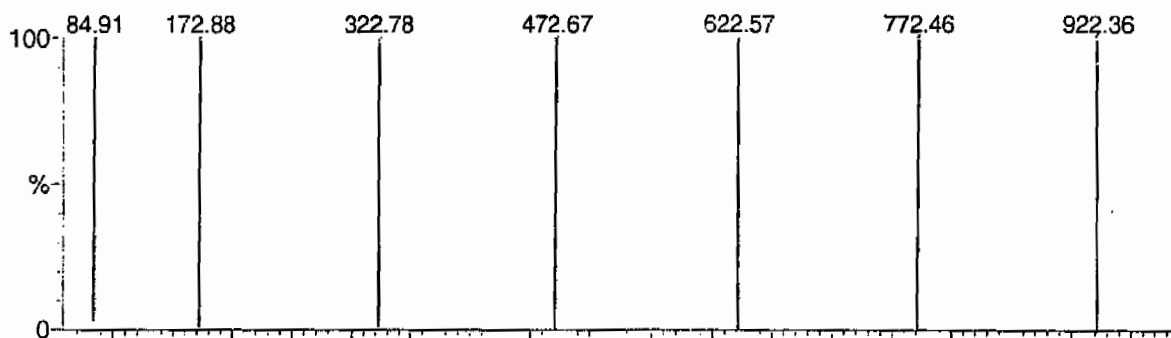
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

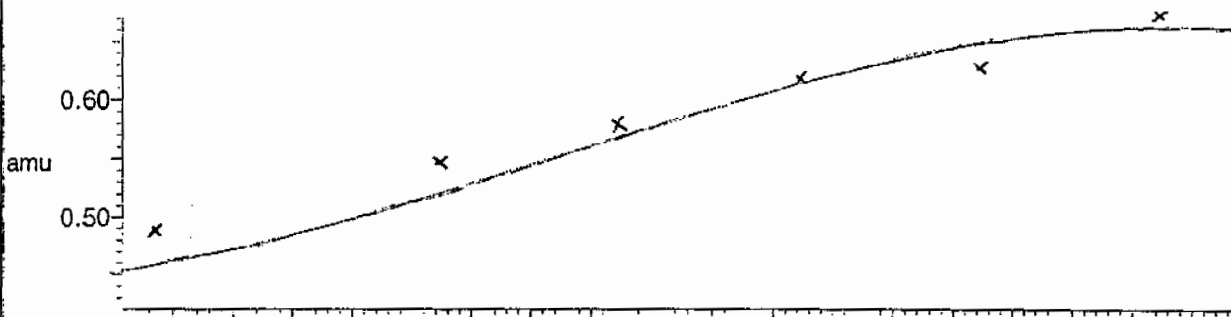
7 matches of 7 tested references



Reference file: Nairb

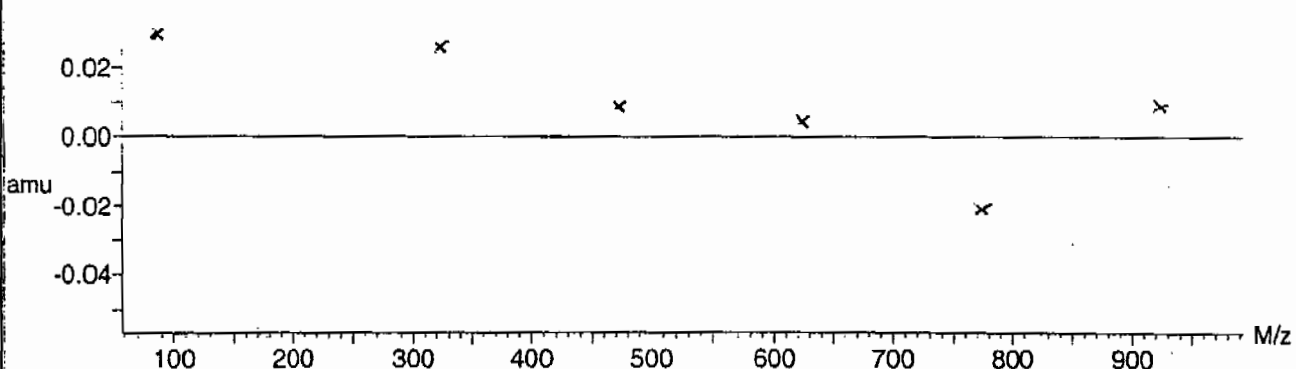


Mass difference (Raw - Ref mass)



Residuals

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



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

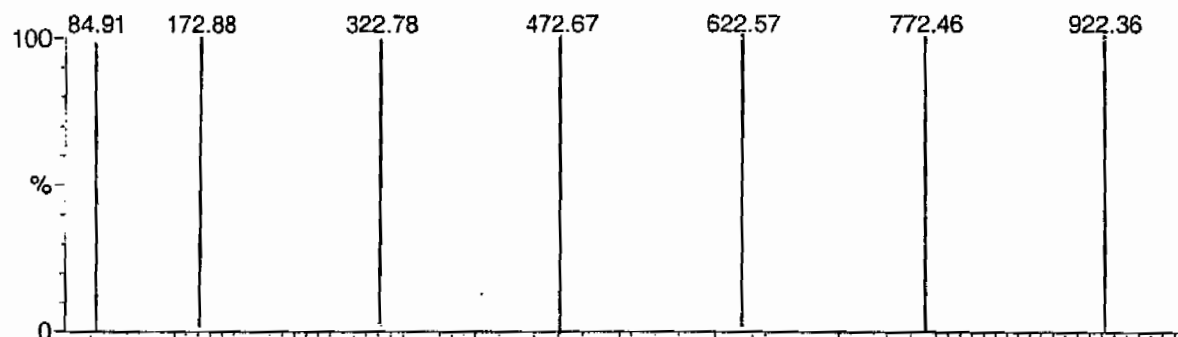
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

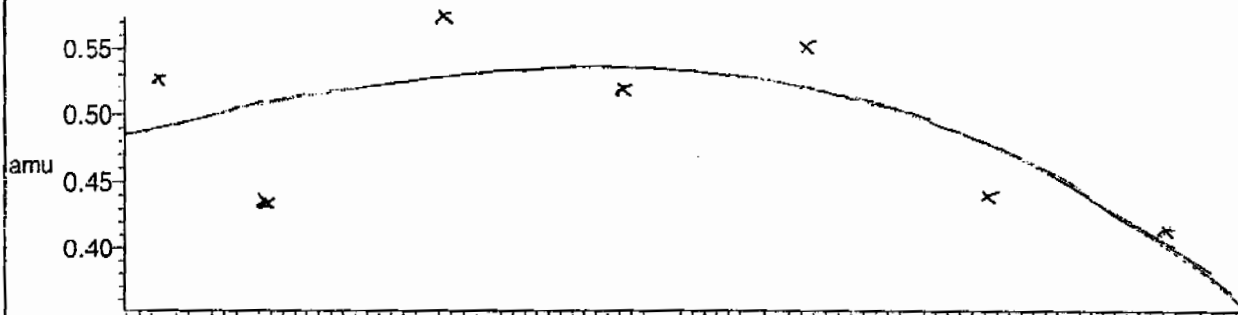
7 matches of 7 tested references



Reference file: Nairb

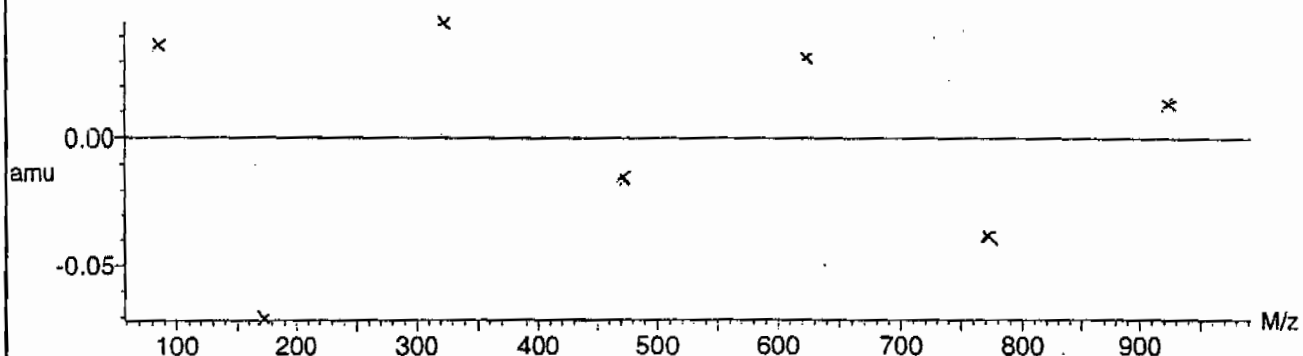


Mass difference (Raw - Ref mass)



Residuals

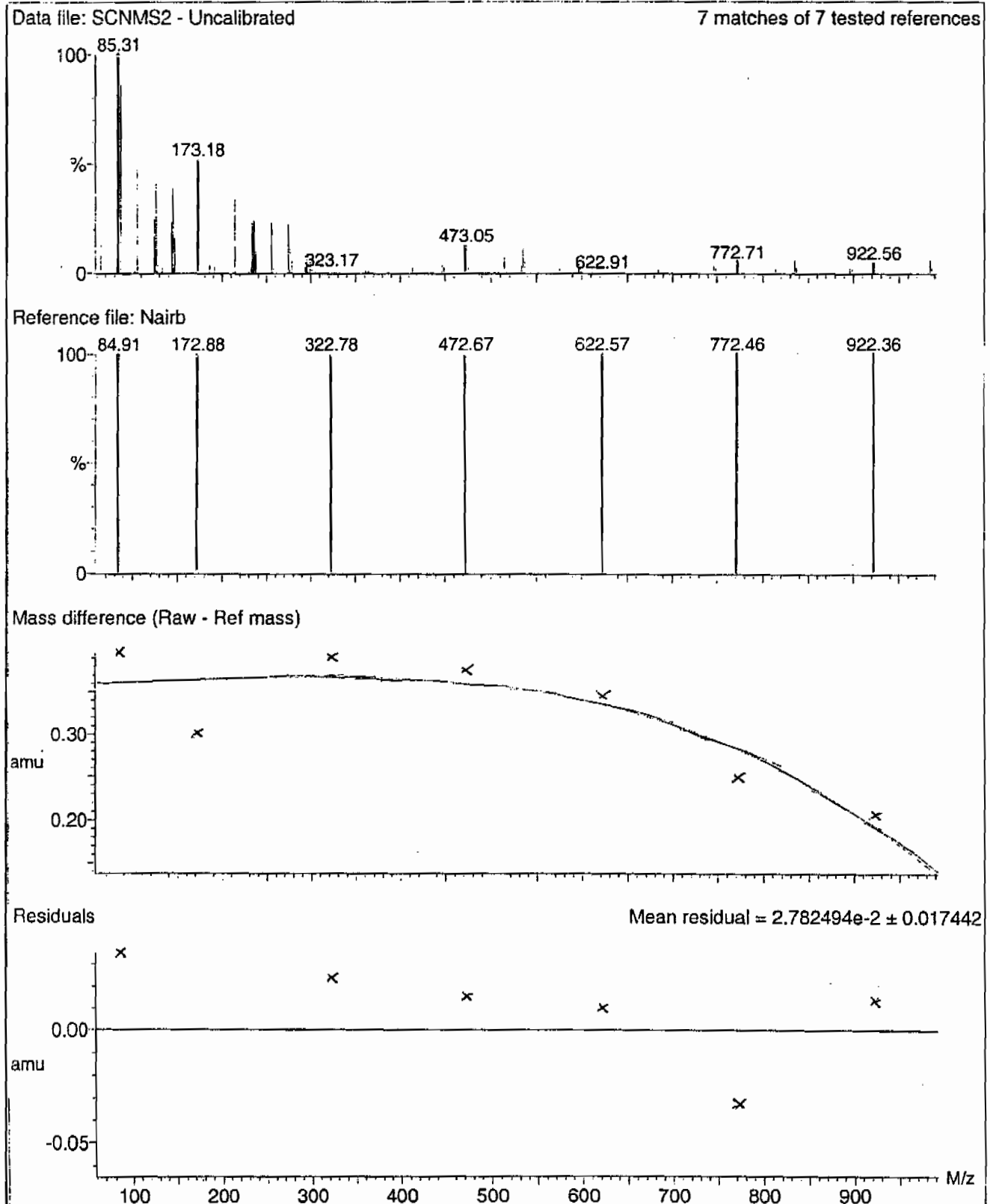
Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



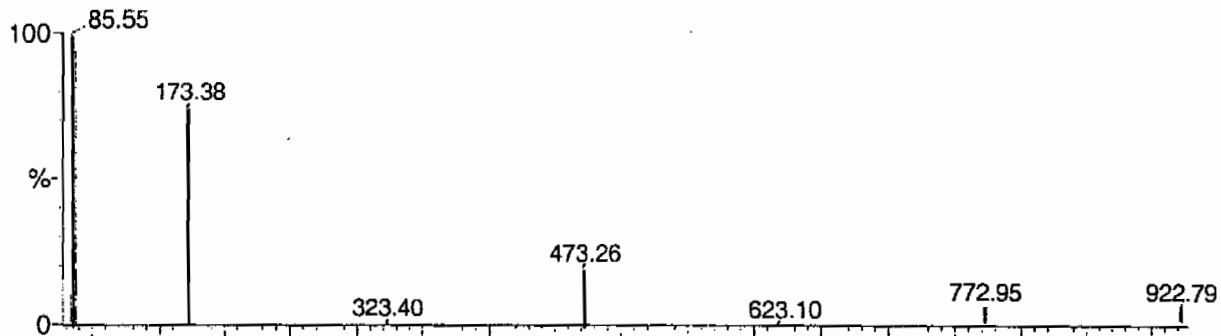
Calibration Report - MS2 Static

Page 1 of 1

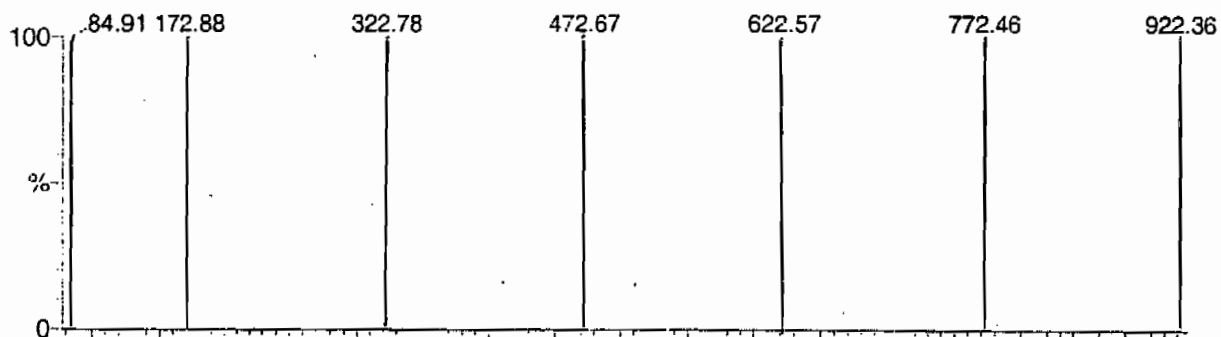
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

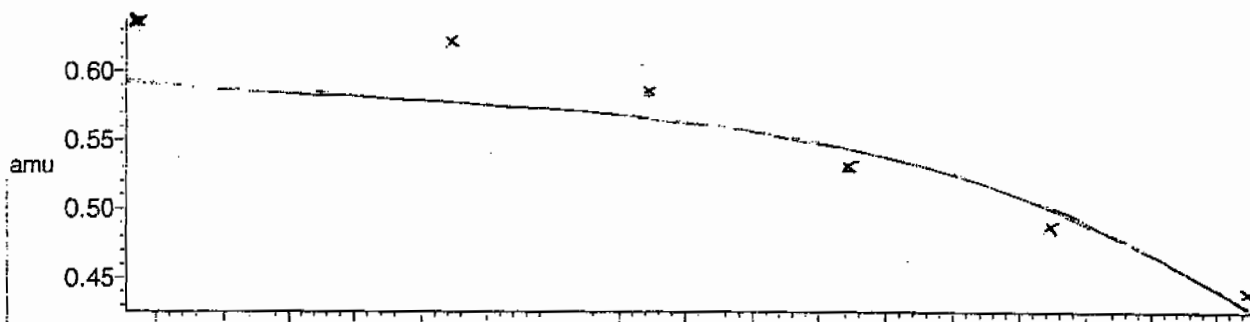
7 matches of 7 tested references



Reference file: Nairb

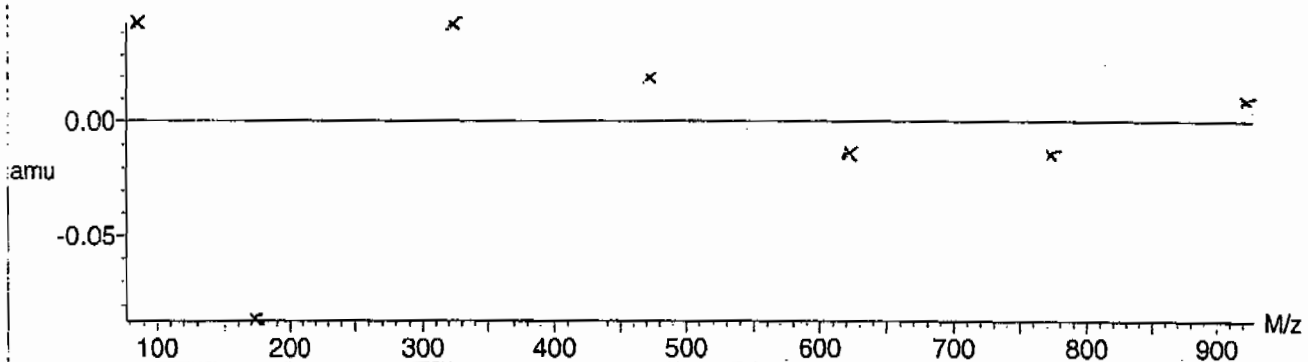


Mass difference (Raw - Ref mass)



Residuals

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



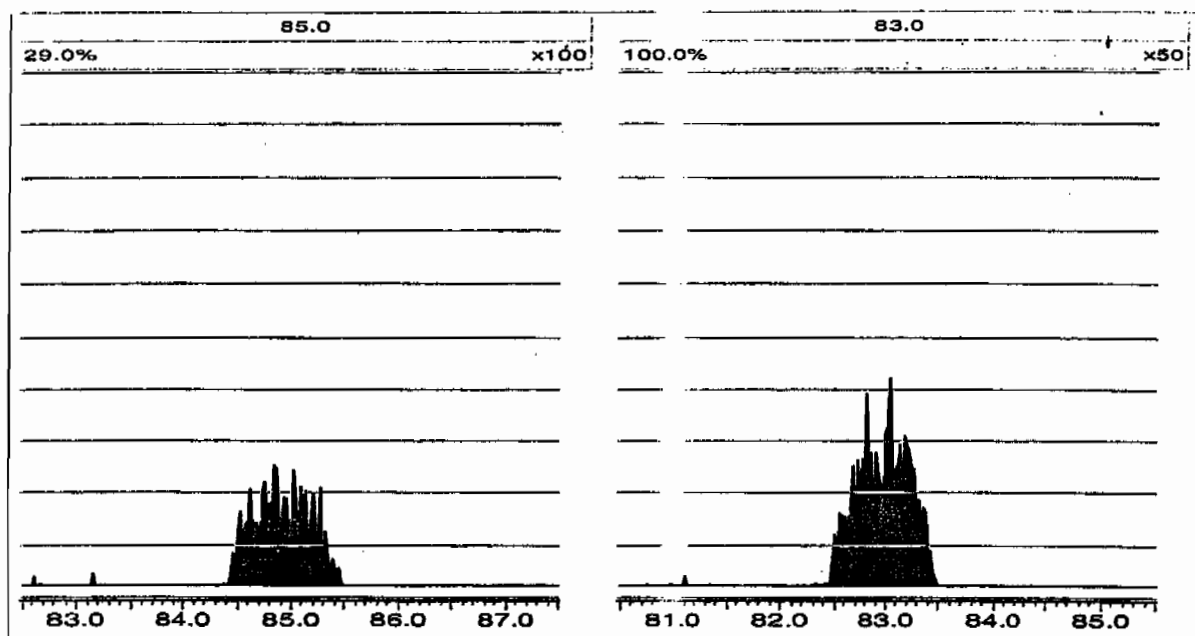
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Monday, January 25, 2010 13:26:21 Eastern Standard Time



Perchlorate RT And Area Summary

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

GEL Job No.(SDG): 10-1226Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMSHPLC 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	per0125006a	25-JAN-10	14059.7				
Lower Area Limit			7029.85				
Upper Area Limit			28119.4				
1202017267	per0125041a	25-JAN-10 21:32	13546.4	3.47	3.49535	1.007	
1202017268	per0125042a	25-JAN-10 21:42	14040	3.47	3.4828	1.004	
1202017271	per0125043a	25-JAN-10 21:51	14435.5	3.43	3.44553	1.005	
244628001	per0125044a	25-JAN-10 22:00	14205.6	3.46	3.45797	.999	
1202017269	per0125045a	25-JAN-10 22:09	14924.6	3.46	3.47043	1.003	
1202017270	per0125046a	25-JAN-10 22:18	15934.6	3.46	3.47043	1.003	
244628002	per0125050a	25-JAN-10 22:55	15436.5	3.45	3.45808	1.002	
244628003	per0125051a	25-JAN-10 23:04	16435.8	3.43	3.45805	1.008	

Perchlorate RT And Area Summary

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

GEL Job No.(SDG): 10-1226

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	per0125006a	25-JAN-10	14059.7				
Lower Area Limit			7029.85				
Upper Area Limit			28119.4				
244628004	per0125052a	25-JAN-10 23:13	15866.2	3.45	3.45803	1.002	
244628005	per0125053a	25-JAN-10 23:22	16442.8	3.43	3.44555	1.005	
244628006	per0125054a	25-JAN-10 23:31	17422.8	3.43	3.44553	1.005	
244628007	per0125055a	25-JAN-10 23:40	15550.3	3.43	3.44553	1.005	
244628008	per0125056a	25-JAN-10 23:49	16482	3.42	3.43332	1.004	
244628009	per0125057a	25-JAN-10 23:58	16043.3	3.42	3.4332	1.004	
244628010	per0125061a	26-JAN-10 00:34	17595.5	3.42	3.43317	1.004	
244628011	per0125062a	26-JAN-10 00:44	14727.3	3.41	3.43322	1.007	

Perechlorate RT And Area Summary

GEL Job No.(SDG): 10-1226Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMSHPLC 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	per0125006a	25-JAN-10	14059.7				
Lower Area Limit			7029.85				
Upper Area Limit			28119.4				
244628012	per0125063a	26-JAN-10 00:53	16644.5	3.41	3.42073	1.003	
244628013	per0125064a	26-JAN-10 01:02	16031.2	3.4	3.42077	1.006	
244628014	per0125065a	26-JAN-10 01:11	15132.7	3.4	3.40832	1.002	
244628015	per0125066a	26-JAN-10 01:20	16945.2	3.4	3.42075	1.006	
244628016	per0125067a	26-JAN-10 01:29	15716.9	3.4	3.4083	1.002	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7262
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628001
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 91.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:00	per0125044a
14797-73-0	Perchlorate-101	.549	2.19	0.549	ug/kg	U	1	25-JAN-10 22:00	per0125044a
	Perchlorate-O(18)			5.58	ug/kg		1	25-JAN-10 22:00	per0125044a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125044a

Date: 25-Jan-2010

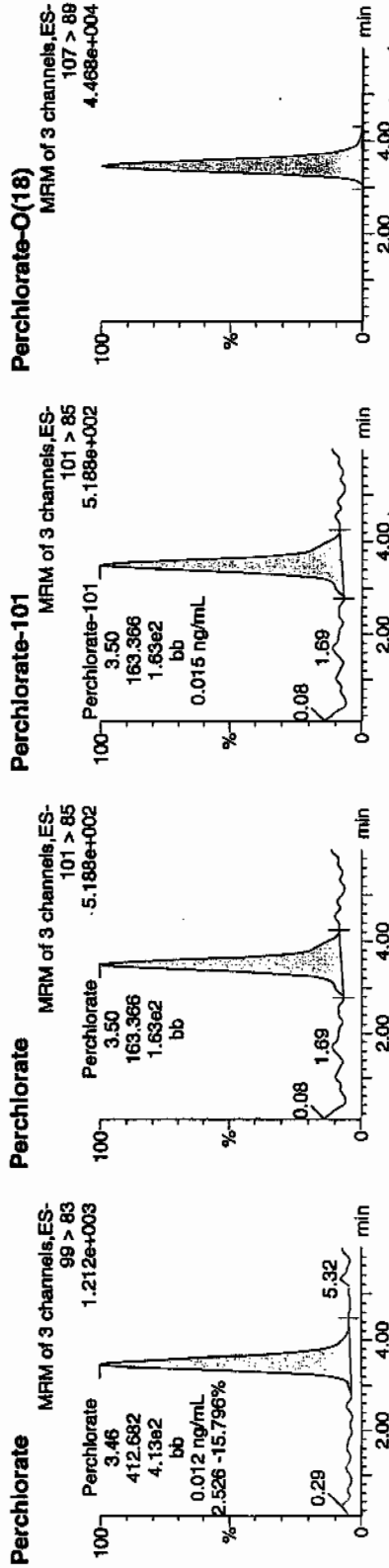
Time: 22:00:23

ID: 244628001

Vial: 2:1,D

1592-1942322 | 5020 | 11

01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	ISN	Ion Ratio
244628001	Perchlorate	99 > 83	3.46	412.682	412.682	bb			0.0125	106.146	2.53		
244628001	Perchlorate-101	101 > 85	3.50	163.366	163.366	bb			0.0147	157.068			
244628001	Perchlorate-O(18)	107 > 89	3.46	14205.634	14205.634	bb			0.5084	101.68	1.68	5336.7...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846.6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7266

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628002

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

% Solids: 80

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate Isotope Ratio						1	25-JAN-10 22:55	per0125050a
14797-73-0	Perchlorate-101	.623	2.49	0.623	ug/kg	U	1	25-JAN-10 22:55	per0125050a
	Perchlorate-O(18)			6.88	ug/kg		1	25-JAN-10 22:55	per0125050a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125050a

Date: 25-Jan-2010

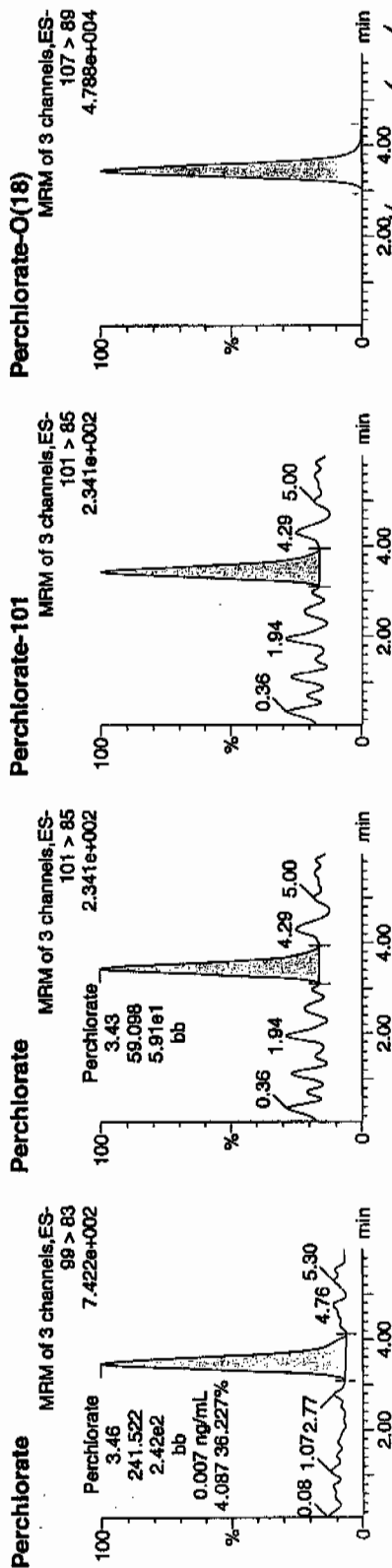
Time: 22:55:00

ID: 244628002

Trial: 2:2,A

01-26-10

1444-1942322 | 5070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
244628002	Perchlorate	99 > 83	3.46	241.522	241.522	bb			0.0073	15.004	4.09		
244628002	Perchlorate-101	101 > 85	3.43	59.098	59.098	bb			0.0053	54.981			
244628002	Perchlorate-O(18)	107 > 89	3.45	15436.473	15436.473	bb			0.5525	110.49	10.49	3308.8...	

0.0500

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7258

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628003

Date Filtered: 25-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	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:04	per0125051a
14797-73-0	Perchlorate-101	.583	2.33	0.583	ug/kg	U	1	25-JAN-10 23:04	per0125051a
	Perchlorate-O(18)			6.86	ug/kg		1	25-JAN-10 23:04	per0125051a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125051a

Date: 25-Jan-2010

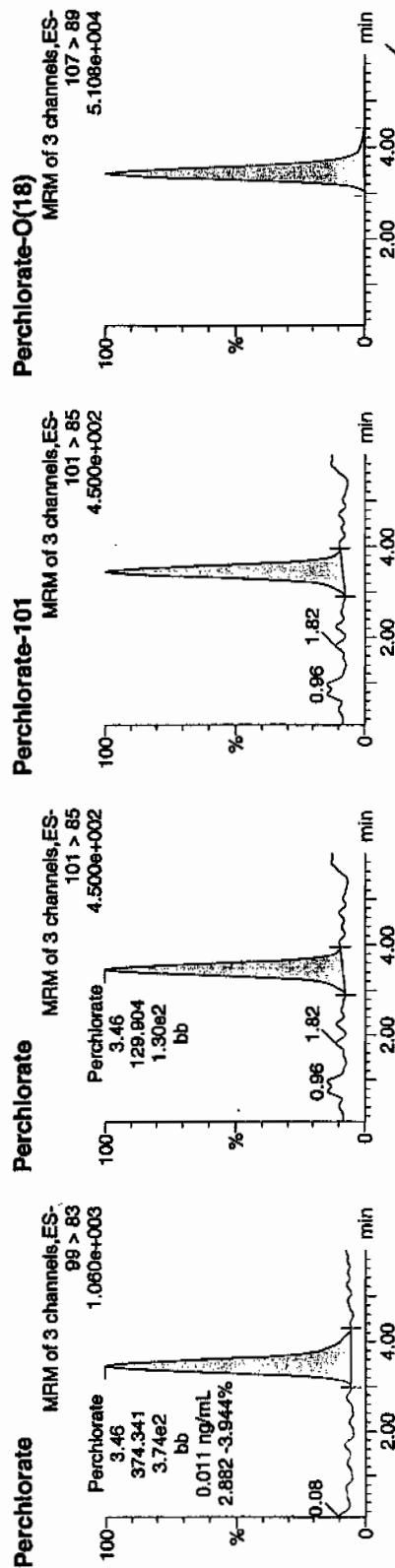
Time: 23:04:14

ID: 244628003

Vial: 2:2,B

Q-26-10

129.904 | 942322 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
244628003	Perchlorate	99 > 83	3.46	374.341	374.341	bb			0.0113			101.699	2.88
244628003	Perchlorate-101	101 > 85	3.46	129.904	129.904	bb			0.0117			14.981	
244628003	Perchlorate-O(18)	107 > 89	3.43	16435.754	16435.754	bb			0.5882	117.65	17.65	5861.0...	

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: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7268

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628004

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 20.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:13	per0125052a
14797-73-0	Perchlorate-101	.554	2.22	0.554	ug/kg	U	1	25-JAN-10 23:13	per0125052a
	Perchlorate-O(18)			6.30	ug/kg		1	25-JAN-10 23:13	per0125052a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125052a

Date: 25-Jan-2010

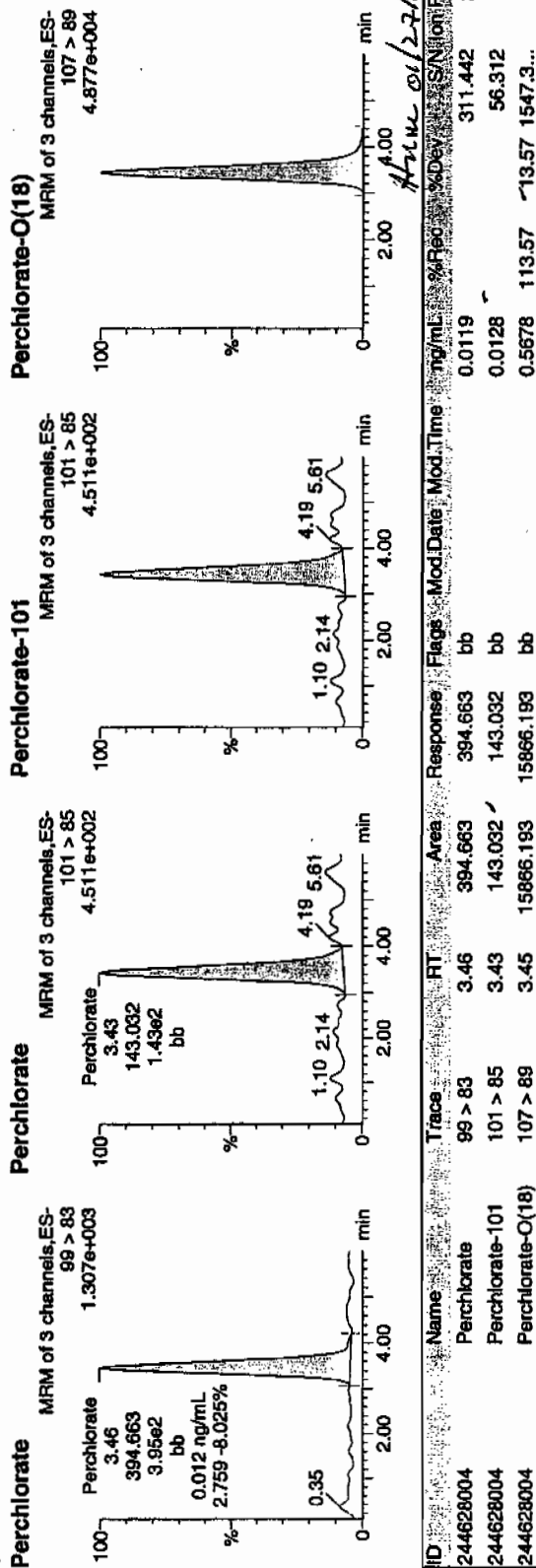
Time: 23:13:15

ID: 244628004

Vial: 2,2,C

0-26-10

1 Low | 94322 | 3020 | 11



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7265

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628005

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

% Solids: 93.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.533	ug/kg	U	1	25-JAN-10 23:22	per0125053a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:22	per0125053a
14797-73-0	Perchlorate-101	.533	2.13	0.557	ug/kg	J	1	25-JAN-10 23:22	per0125053a
	Perchlorate-O(18)			6.27	ug/kg		1	25-JAN-10 23:22	per0125053a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Sample Name: per0125053a

Date: 25-Jan-2010

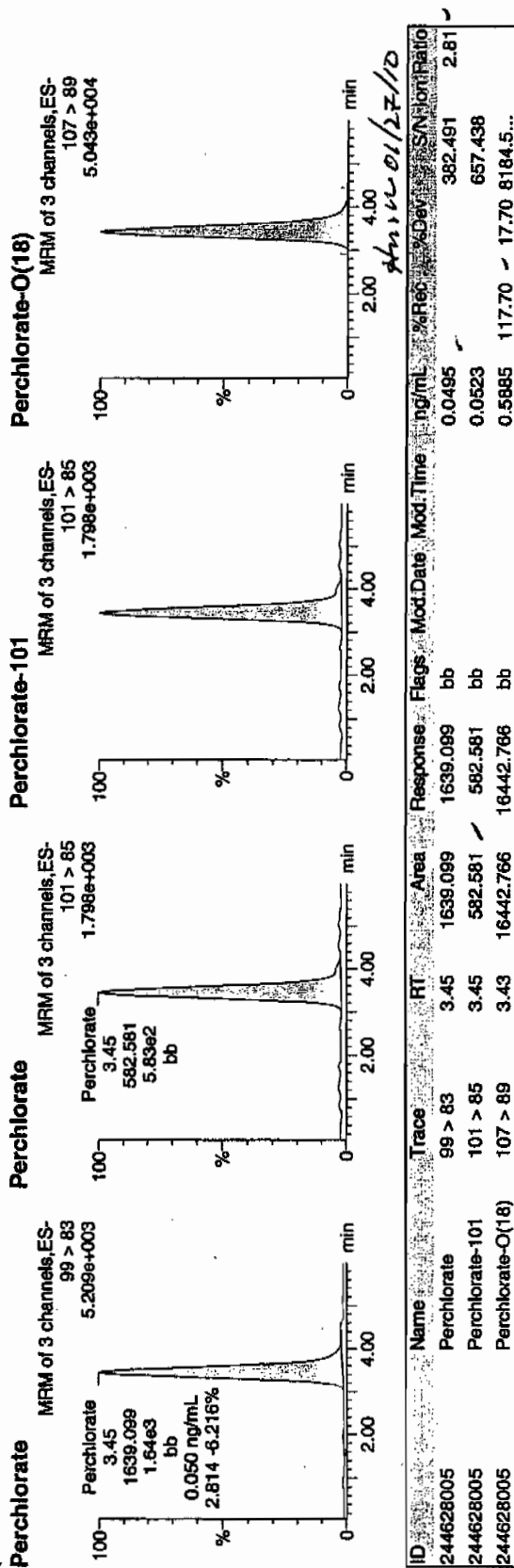
Time: 23:22:17

ID: 244628005

Vial: 2:2,D

6600
01-26-10

LANC | 942322 | 5070 | 11



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7261

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628006

Date Filtered: 25-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	25-JAN-10 23:31	per0125054a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:31	per0125054a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	25-JAN-10 23:31	per0125054a
	Perchlorate-O(18)			7.19	ug/kg		1	25-JAN-10 23:31	per0125054a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

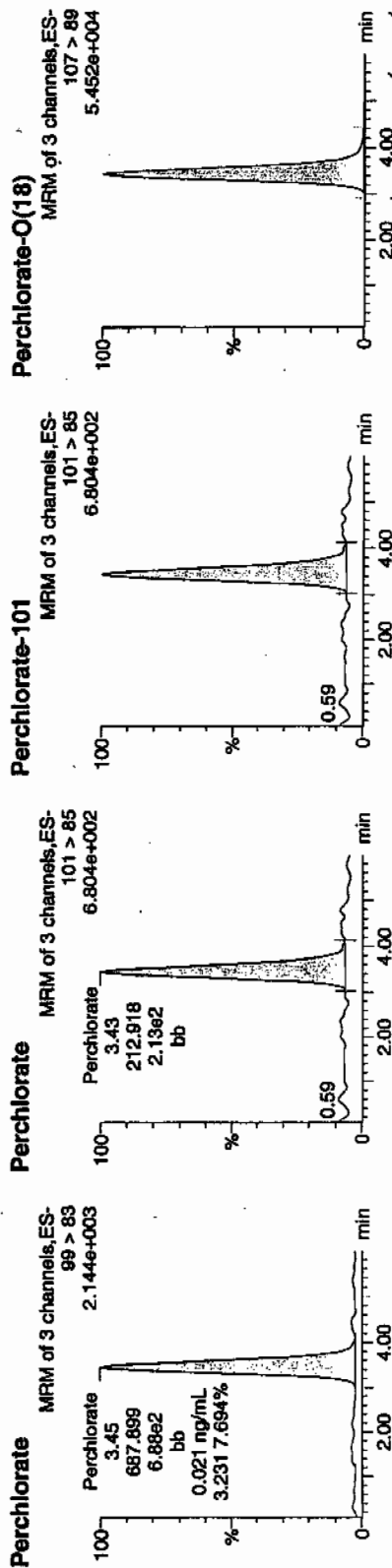
Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125054a
Date: 25-Jan-2010
Time: 23:31:19
ID: 244628006
Vial: 2-2,E

01-26-10

110001942322 | 50070111



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
244628006	Perchlorate	99 > 83	3.45	687.899	687.899	bb			0.0208		266.067		3.23
244628006	Perchlorate-101	101 > 85	3.43	212.918	212.918	bb			0.0191		46.021		
244628006	Perchlorate-O(18)	107 > 89	3.43	17422.816	17422.816	bb			0.6236	124.71	24.71	6486.7...	

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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7259

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628007

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 93.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:40	per0125055a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	25-JAN-10 23:40	per0125055a
	Perchlorate-O(18)			5.95	ug/kg		1	25-JAN-10 23:40	per0125055a

[^] 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

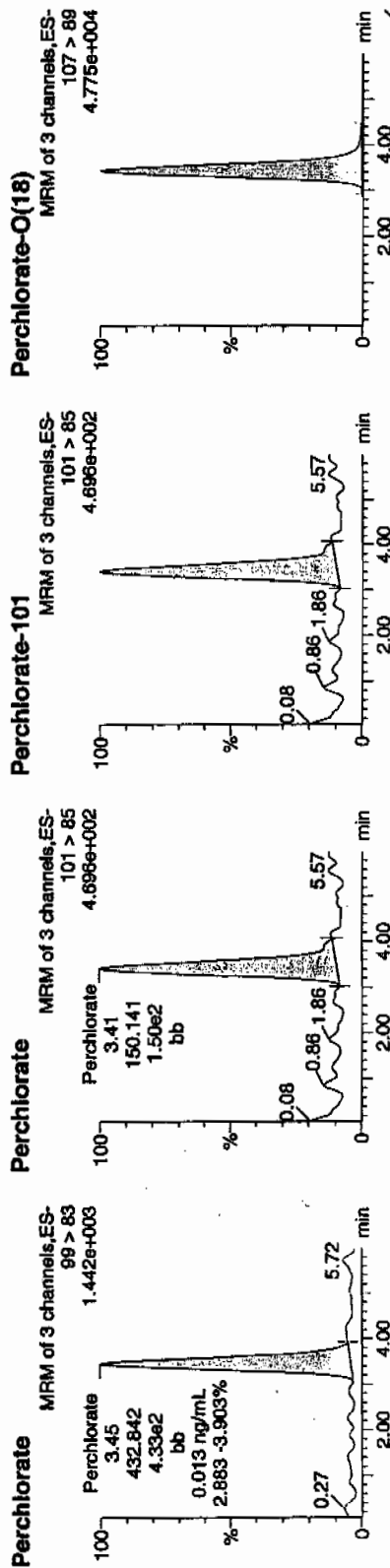
Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125055a
Date: 25-Jan-2010
Time: 23:40:20
ID: 244628007
Vial: 2:2,F

W
01-26-10

LANC | 942322 | 3020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
244628007	Perchlorate	99 > 83	3.45	432.842	432.842	bb			0.0131			85.408	2.88
244628007	Perchlorate-101	101 > 85	3.41	150.141	150.141	bb			0.0135			92.979	
244628007	Perchlorate-O(18)	107 > 89	3.43	15550.309	15550.309	bb			0.5565	111.31	11.31	880.386	

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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7263
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628008
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:49	per0125056a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	25-JAN-10 23:49	per0125056a
	Perchlorate-O(18)			6.25	ug/kg		1	25-JAN-10 23:49	per0125056a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
 Aliquot

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

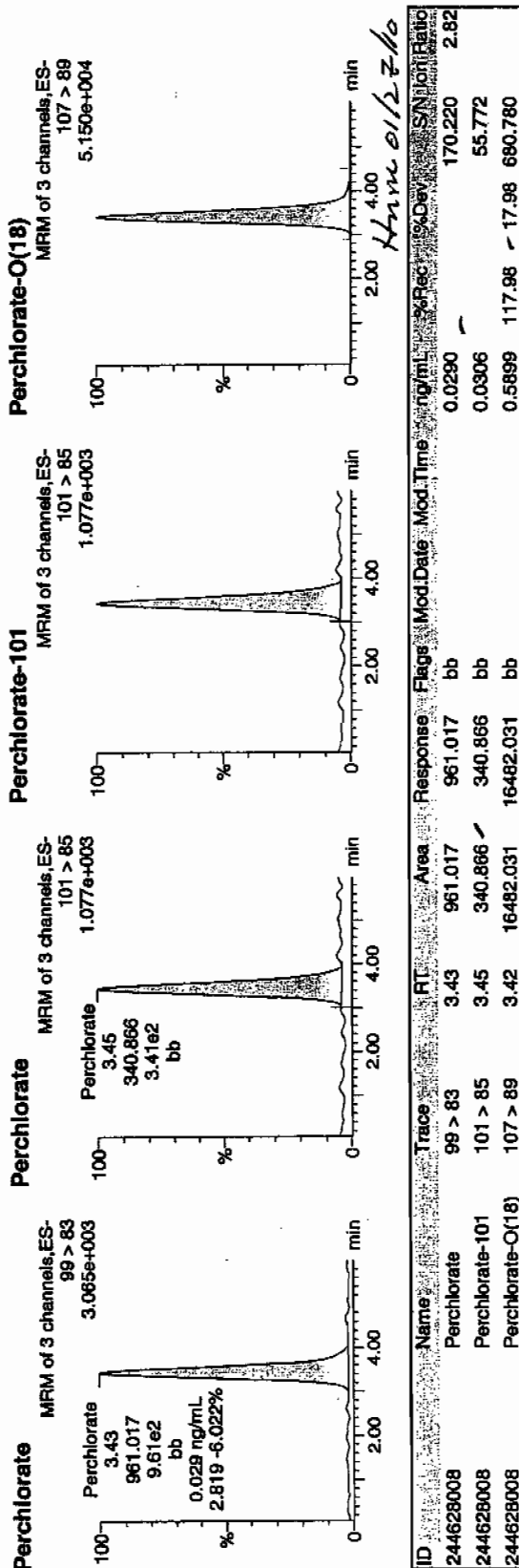
Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125056a
Date: 25-Jan-2010
Time: 23:49:21
ID: 244628008
Vial: 2:3,A

0-6-10

12222 | 5020 | 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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7271
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628002
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 92.4

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	25-JAN-10 23:58	per0125057a
	Perchlorate Isotope Ratio						1	25-JAN-10 23:58	per0125057a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	25-JAN-10 23:58	per0125057a
	Perchlorate-O(18)			6.21	ug/kg		1	25-JAN-10 23:58	per0125057a

[^] 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

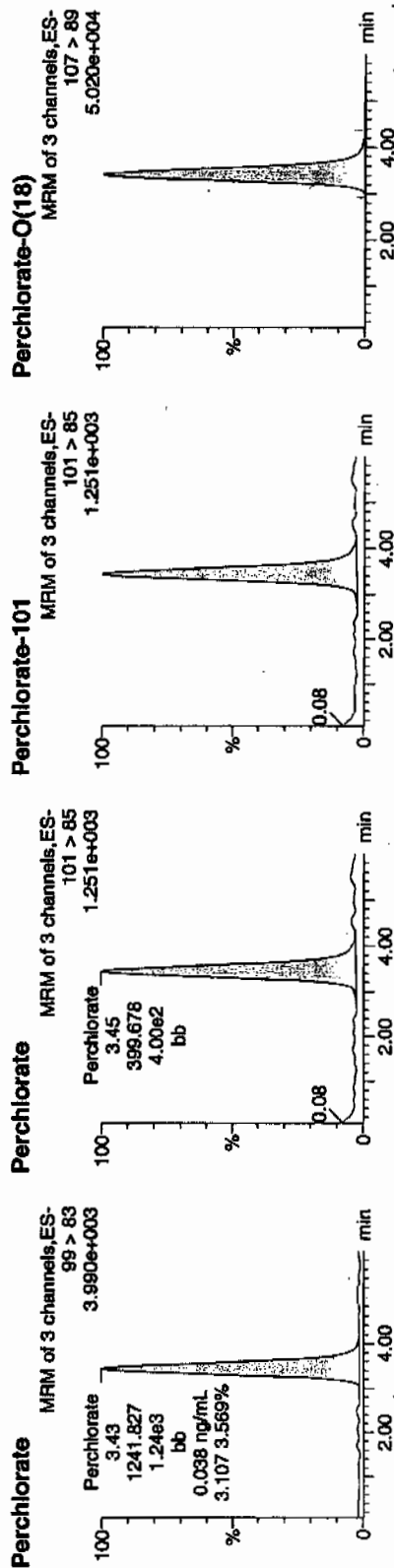
Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125057a
Date: 25-Jan-2010
Time: 23:58:25
ID: 244628009
Vial: 2:3,B

12426 | 942322 | 3020 | 11

01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
244628009	Perchlorate	99 > 83	3.43	1241.827	1241.827	bb					0.0375	✓		335.182	3.11
244628009	Perchlorate-101	101 > 85	3.45	399.678	399.678	bb					0.0359			162.162	
244628009	Perchlorate-O(18)	107 > 89	3.42	16043.287	16043.287	bb					0.5742	114.84	✓	14.84	2551.9...

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: 942321
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE12-10-7260
 Date Received: 13-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 244628010
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 80

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:34	per0125061a
14797-73-0	Perchlorate-101	.624	2.5	0.624	ug/kg	U	1	26-JAN-10 00:34	per0125061a
	Perchlorate-O(18)			7.86	ug/kg		1	26-JAN-10 00:34	per0125061a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125061a

Date: 26-Jan-2010

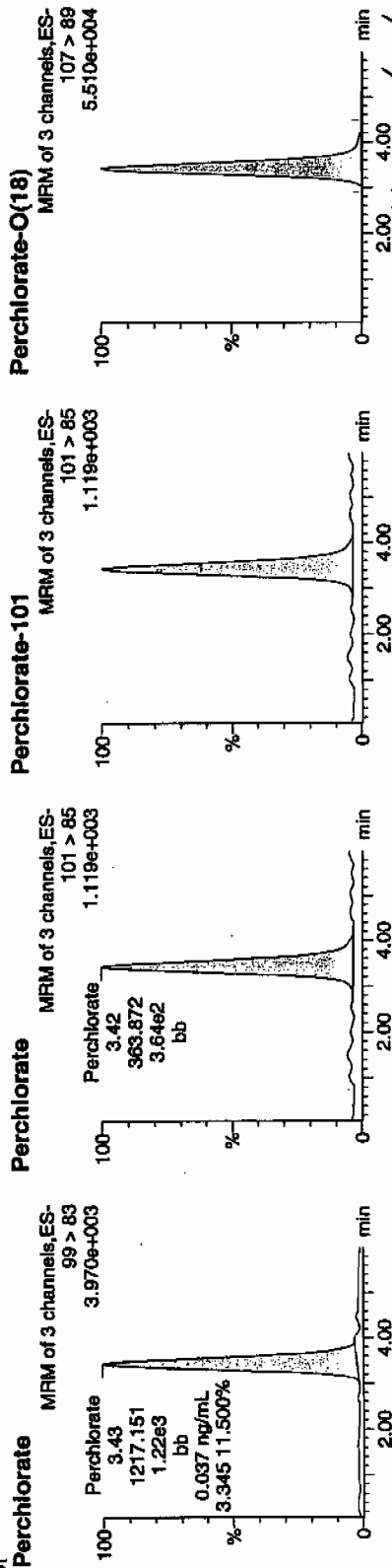
Time: 00:34:47

ID: 244628010

Vial: 2:3,C

WWD
01-26-10

1422-1942322 / 3070111



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ratio
244628010	Perchlorate	99 > 83	3.43	1217.151	1217.151	bb			0.0368	-		445.245	3.34
244628010	Perchlorate-101	101 > 85	3.42	363.872	363.872	bb			0.0327	-		181.236	
244628010	Perchlorate-O(18)	107 > 89	3.42	17595.523	17595.523	bb			0.6297	125.95	25.95	2722.0...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7267

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628011

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 92.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:44	per0125062a
14797-73-0	Perchlorate-101	.538	2.15	0.538	ug/kg	U	1	26-JAN-10 00:44	per0125062a
	Perchlorate-O(18)			5.67	ug/kg		1	26-JAN-10 00:44	per0125062a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125062a

Date: 26-Jan-2010

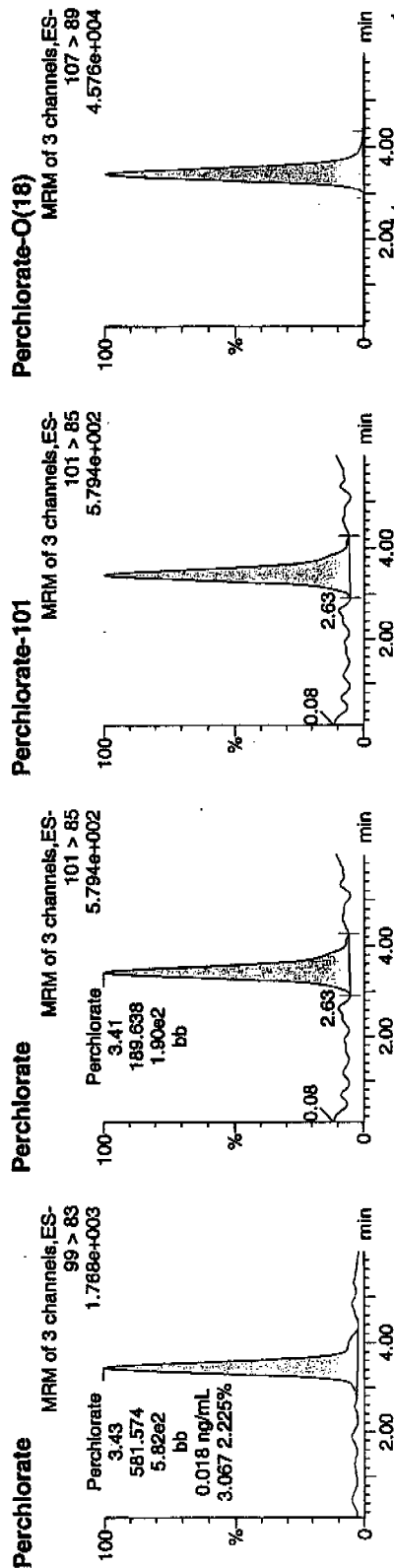
Time: 00:44:01

ID: 244628011

Vial: 2:3,D

01-26-10

1222 | 942322 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	ModDate	ModTime	ng/mL	%Rec	%Dev	SN Ratio
244628011	Perchlorate	99 > 83	3.43	581.574	581.574	bb			0.0176			3.07
244628011	Perchlorate-101	101 > 85	3.41	189.638	189.638	bb			0.0170			230.164
244628011	Perchlorate-O(18)	107 > 89	3.41	14727.260	14727.260	bb			0.5271	105.42	5.42	204.560
												1905.4...

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: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7264

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628012

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

% Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate Isotope Ratio						1	26-JAN-10 00:53	per0125063a
14797-73-0	Perchlorate-101	.562	2.25	0.562	ug/kg	U	1	26-JAN-10 00:53	per0125063a
	Perchlorate-O(18)			6.69	ug/kg		1	26-JAN-10 00:53	per0125063a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125063a

Date: 26-Jan-2010

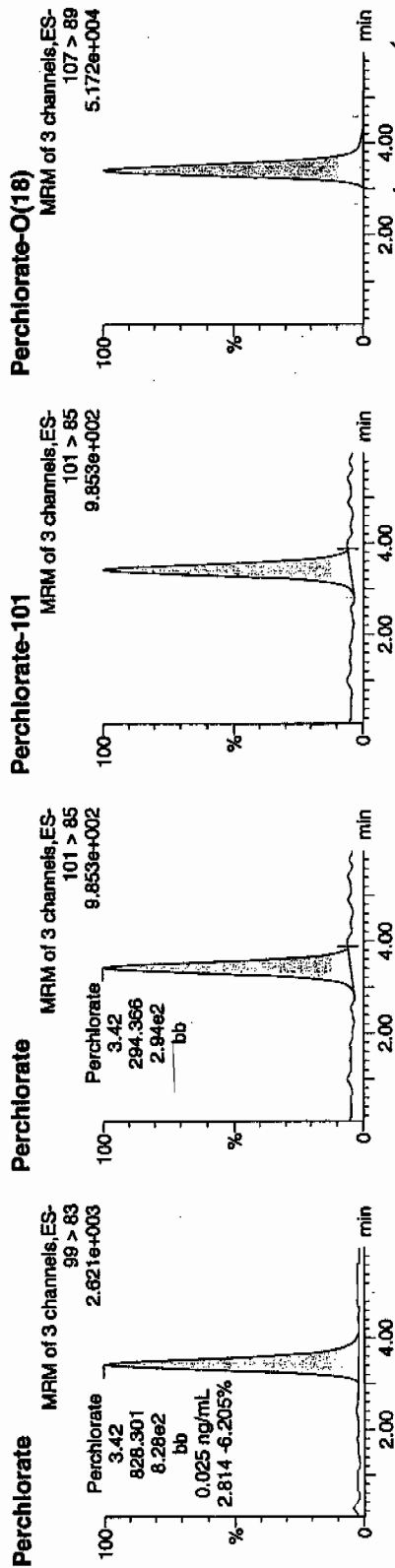
Time: 00:53:02

ID: 244628012

Cytal: 2:3,E

0.16-10

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ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	S/N	Off Ratio
244628012	Perchlorate	99 > 83	3.42	828.301	828.301	bb			0.0250		709.382	2.81
244628012	Perchlorate-101	101 > 85	3.42	294.366	294.366	bb			0.0264		27.111	
244628012	Perchlorate-O(18)	107 > 89	3.41	16644.490	16644.490	bb			0.5957	119.14	19.14	1343.0...

Perchlorate Analysis Data Sheet

Client Sample No.

RE12-10-7270

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 13-JAN-10

Instrument: LCMSMS

GEL Job No (SDG): 10-1226

Method: SW846 6850 Modified

GEL Sample ID: 244628013

Matrix: SOIL

Date Filtered: 25-JAN-10

Extraction Batch ID: 942321

Injection Volume (uL): 20

Extraction Type: Solid Prep

%Solids: 88

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:02	per0125064a
14797-73-0	Perchlorate-101	.571	2.29	0.571	ug/kg	U	1	26-JAN-10 01:02	per0125064a
	Perchlorate-O(18)			6.56	ug/kg		1	26-JAN-10 01:02	per0125064a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125064a

Date: 26-Jan-2010

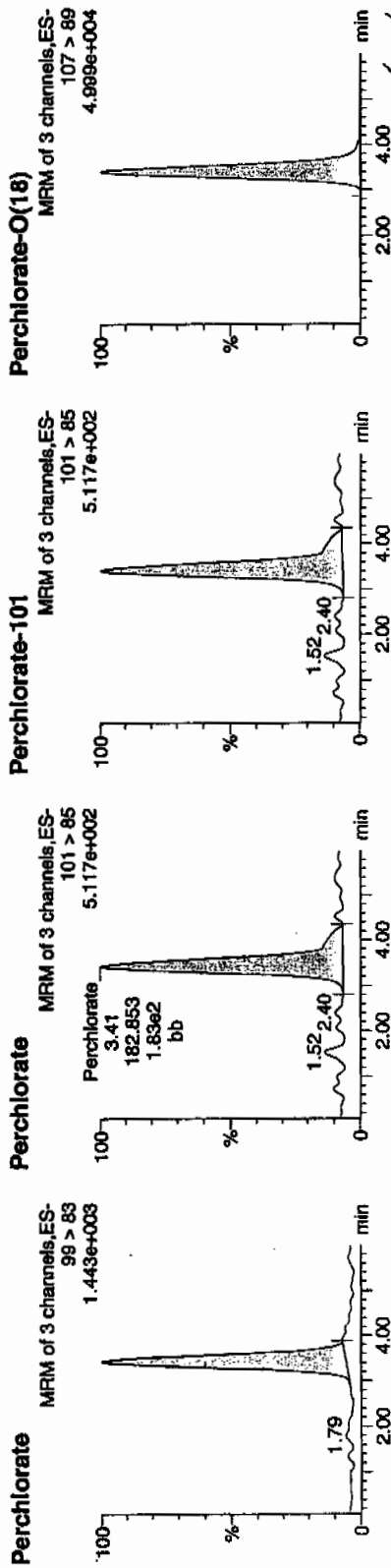
Time: 01:02:04

ID: 244628013

Yial: 2:3,F

622

11/26/10
11/26/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Fac	%Dev	SN	Ratio
244628013	Perchlorate	99 > 83	3.42	439.066	439.066	bb			0.0133			62.535	2.40
244628013	Perchlorate-101	101 > 85	3.41	182.853	182.853	bb			0.0164			303.739	
244628013	Perchlorate-O(18)	107 > 89	3.40	16031.249	16031.249	bb			0.5738	114.75	14.75	12496	...

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7269

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628014

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 24

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:11	per0125065a
14797-73-0	Perchlorate-101	.532	2.13	0.532	ug/kg	U	1	26-JAN-10 01:11	per0125065a
	Perchlorate-O(18)			5.76	ug/kg		1	26-JAN-10 01:11	per0125065a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125065a

Date: 26-Jan-2010

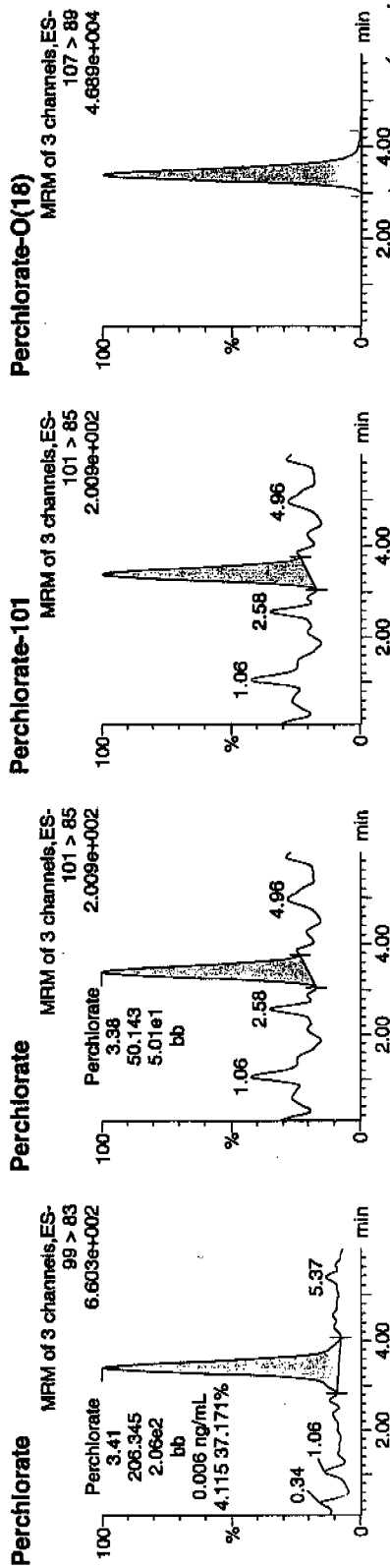
Time: 01:11:05

ID: 244628014

Vial: 2:4.A

01-26-10

1444-942322 | 5020 | 1.1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
244628014	Perchlorate	99 > 83	3.41	206.345	206.345	bb			0.0062			61.111	4.12
244628014	Perchlorate-101	101 > 85	3.38	50.143	50.143	bb			0.0045			79.117	
244628014	Perchlorate-O(18)	107 > 89	3.40	15132.710	15132.710	bb			0.5416	108.32	- 8.32	4368.7...	

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20.0500

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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7283

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628015

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

% Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:20	per0125066a
14797-73-0	Perchlorate-101	.611	2.44	0.611	ug/kg	U	1	26-JAN-10 01:20	per0125066a
	Perchlorate-O(18)			7.41	ug/kg		1	26-JAN-10 01:20	per0125066a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125066a

Date: 26-Jan-2010

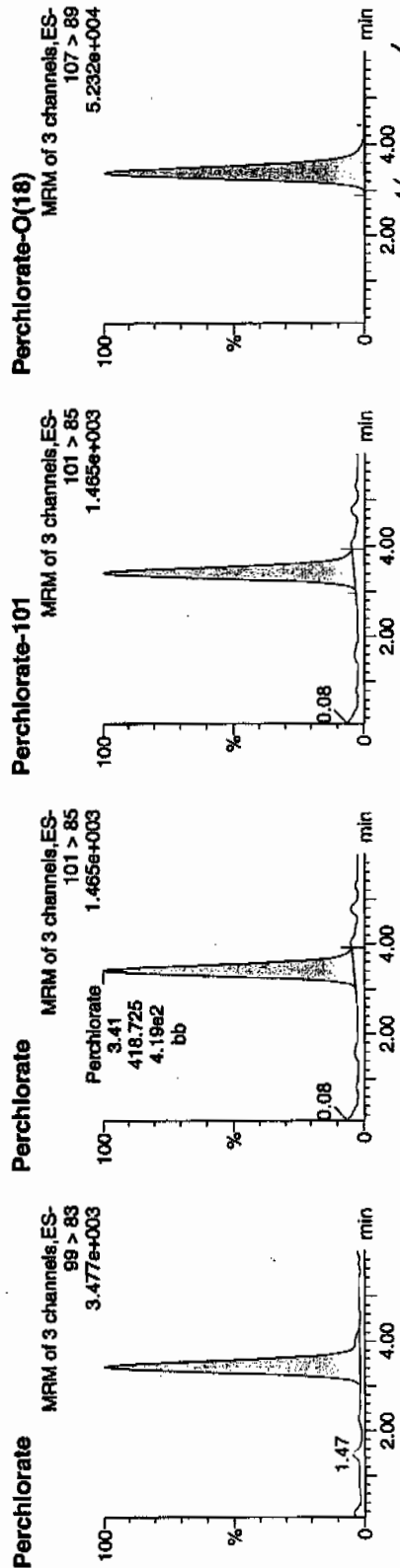
Time: 01:20:08

ID: 244628015

Vial: 2:4,B

01-26-10

1222-1942322 | 50720 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N	Ratio
244628015	Perchlorate	99 > 83	3.42	1109.333	1109.333	bb			0.0335			58.818	2.65
244628015	Perchlorate-101	101 > 85	3.41	418.725	418.725	bb			0.0376			240.419	
244628015	Perchlorate-O(18)	107 > 89	3.40	16945.176	16945.176	bb			0.6065	121.29	21.29	8093.4...	

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: 242321

Extraction Type: Solid Prep

Client Sample No.

RE12-10-7282

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 244628016

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 93.8

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	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate Isotope Ratio						1	26-JAN-10 01:29	per0125067a
14797-73-0	Perchlorate-101	.533	2.13	0.533	ug/kg	U	1	26-JAN-10 01:29	per0125067a
	Perchlorate-O(18)			6.00	ug/kg		1	26-JAN-10 01:29	per0125067a

[^] 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\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Per Name: per0125067a

Date: 26-Jan-2010

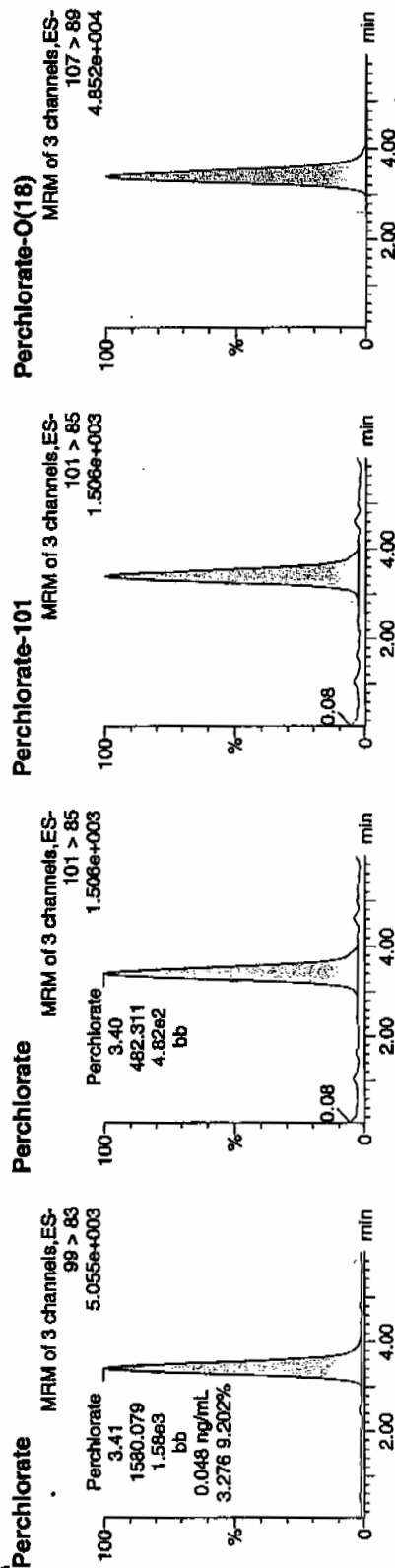
Time: 01:29:11

ID: 244628016

Vial: 2:4,C

01-26-10

1244628016



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
244628016	Perchlorate	99 > 83	3.41	1580.079	1580.079	bb			0.0477			593.586	3.28
244628016	Perchlorate-101	101 > 85	3.40	482.311	482.311	bb			0.0433			22.869	
244628016	Perchlorate-O(18)	107 > 89	3.40	15716.944	15716.944	bb			0.5625	112.50	12.50	7913.8...	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1226

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 25-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: 33096.46

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1226

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 25-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: 11138.7

Response Type: External Standard

Curve Type: RF

Quantify Calibration Report MassLynx 4.0 SP4

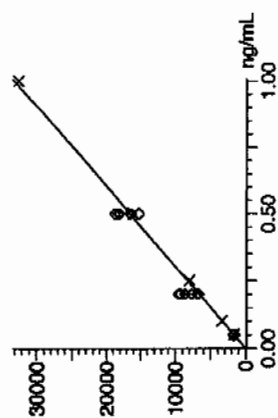
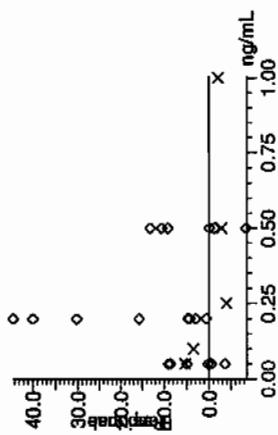
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

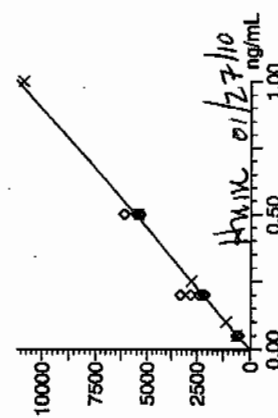
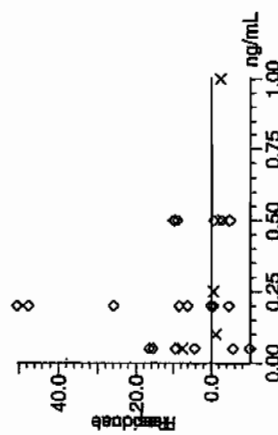
Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012510a.mdb 25 Jan 2010 16:59:05
 Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012510a.cdb 26 Jan 2010 10:13:34

Compound name: Perchlorate
 Response Factor: 33096.5
 RRF SD: 1360.21, % Relative SD: 4.10983
 Response type: External Std, Area
 Curve type: RF



Compound name: Perchlorate-101
 Response Factor: 11138.7
 RRF SD: 476.573, % Relative SD: 4.27854
 Response type: External Std, Area
 Curve type: RF



01-26-10

01/27/10

Quantify Calibration Report MassLynx 4.0 SP4

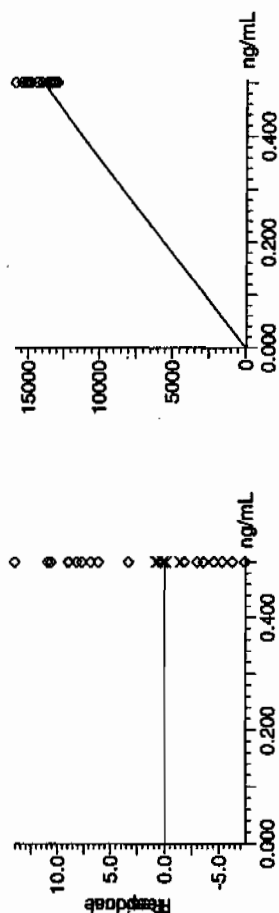
The GEL Group, LLC Analyst: Charles W. Wilson

Page 2 of 2

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Compound name: Perchlorate-O(18)
Response Factor: 27941.2
RRF SD: 253.325, % Relative SD: 0.906638
Response type: External Std, Area
Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1226

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.94	25-JAN-10 16:42	per0125009a
Perchlorate Isotope Ratio		2.99		25-JAN-10 16:42	per0125009a
Perchlorate-101	.5	.5	99.29	25-JAN-10 16:42	per0125009a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125009a

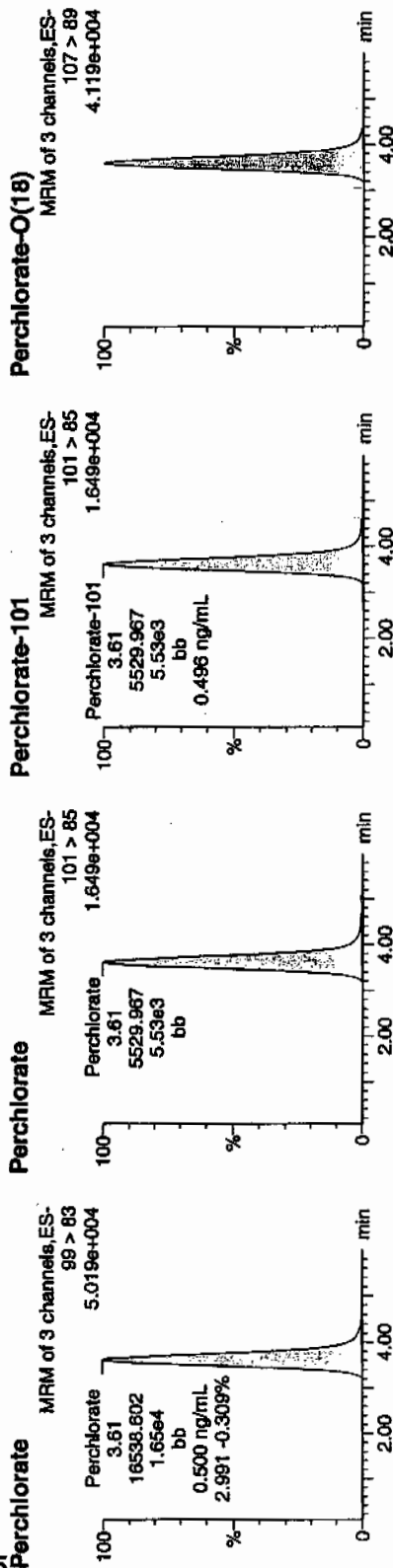
Date: 25-Jan-2010

Time: 16:42:09

ID: WCL100118-06ICV

Vial: 1:2,A

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and
01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-06ICV	Perchlorate	99 > 83	3.61	16538.602	16538.602	bb			0.4987	99.94	-0.06	3678.7...	2.99
WCL100118-06ICV	Perchlorate-101	101 > 85	3.61	5529.967	5529.967	bb			0.4965	99.29	-0.71	3917.9...	
WCL100118-06ICV	Perchlorate-O(18)	107 > 89	3.59	13722.522	13722.522	bb			0.4911	98.22	-1.78	7222.4...	

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1226

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.8	25-JAN-10 18:39	per0125022a
Perchlorate Isotope Ratio		3.08		25-JAN-10 18:39	per0125022a
Perchlorate-101	.5	.48	95.18	25-JAN-10 18:39	per0125022a
Perchlorate	.5	.46	91.64	25-JAN-10 20:37	per0125035a
Perchlorate Isotope Ratio		2.8		25-JAN-10 20:37	per0125035a
Perchlorate-101	.5	.49	97.27	25-JAN-10 20:37	per0125035a
Perchlorate	.5	.55	109.15	25-JAN-10 22:27	per0125047a
Perchlorate Isotope Ratio		2.96		25-JAN-10 22:27	per0125047a
Perchlorate-101	.5	.55	109.61	25-JAN-10 22:27	per0125047a
Perchlorate	.5	.57	113.16	26-JAN-10 00:07	per0125058a
Perchlorate Isotope Ratio		3.05		26-JAN-10 00:07	per0125058a
Perchlorate-101	.5	.55	110.1	26-JAN-10 00:07	per0125058a
Perchlorate	.5	.55	110.53	26-JAN-10 01:38	per0125068a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1226

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio	3.02	26-JAN-10 01:38	per0125068a
Perchlorate-101	.54	26-JAN-10 01:38	per0125068a

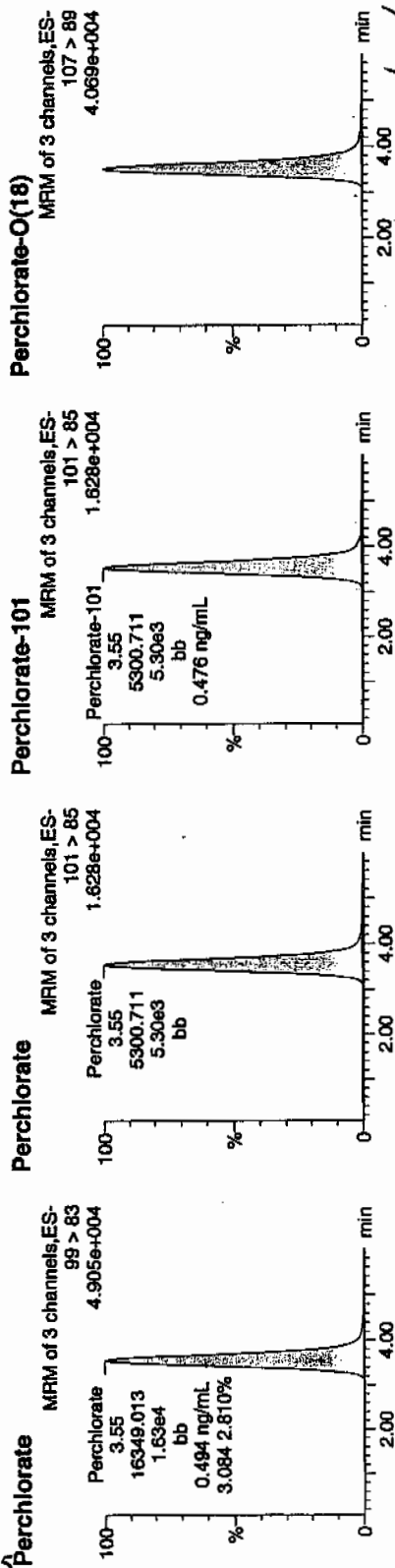
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125022a
Date: 25-Jan-2010
Time: 18:39:40
ID: WCL100118-06CCV
Vial: 1:2,A

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and
01-26-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.55	16349.013	16349.013	bb			0.4940	96.80	-1.20	2120.8...	3.08
WCL100118-06CCV	Perchlorate-101	101 > 85	3.55	5300.711	5300.711	bb			0.4759	95.18	-4.82	611.479	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.53	13335.083	13335.083	bb			0.4773	95.45	-4.55	1851.7...	

Quantify Sample Report MassLynx 4.0 SP4

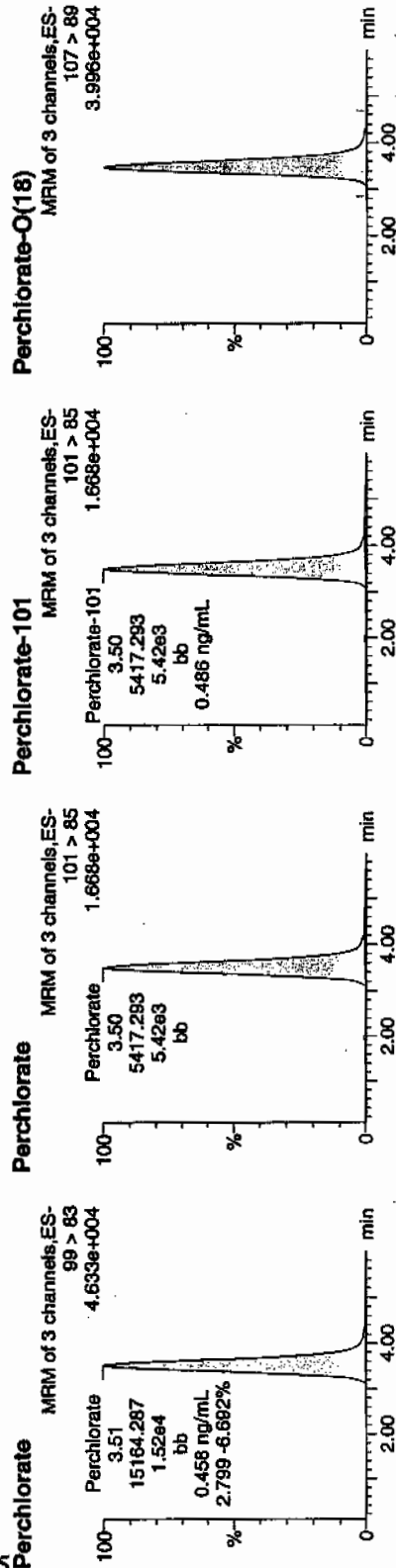
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125035a
 Date: 25-Jan-2010
 Time: 20:37:15
 ID: WCL100118-06CCV
 Trial: 1:2,A

Pass
 and
 O1-16-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.51	15164.287	15164.287	bb			0.4582	91.64	-6.36	6218.8...	2.80
WCL100118-06CCV	Perchlorate-101	101 > 85	3.50	5417.293	5417.293	bb			0.4863	97.27	-2.73	2801.5...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.48	13100.602	13100.602	bb			0.4689	93.77	-6.23	3518.2...	

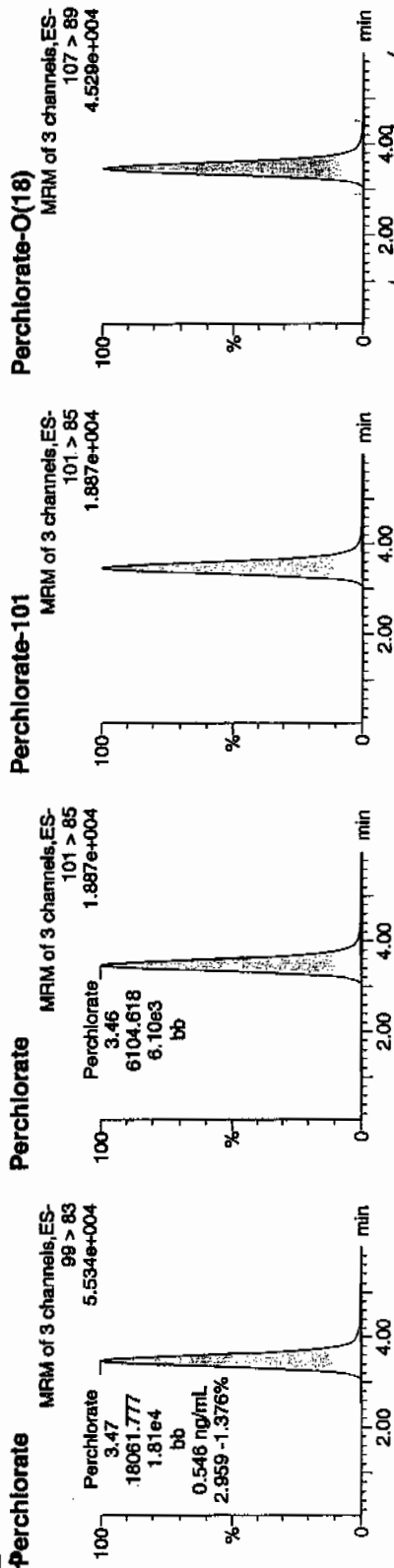
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125047a
Date: 25-Jan-2010
Time: 22:27:33
ID: WCL100118-06CCV
Vial: 1:2,A

Pure
and
OK-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	ES/N	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.47	18061.777	18061.777	bb			0.5457	109.15	9.15	6372.9...	2.96
WCL100118-06CCV	Perchlorate-101	101 > 85	3.46	6104.618	6104.618	bb			0.5481	109.61	9.61	2954.2...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.46	14822.876	14822.876	bb			0.5305	106.10	6.10	4920.3...	

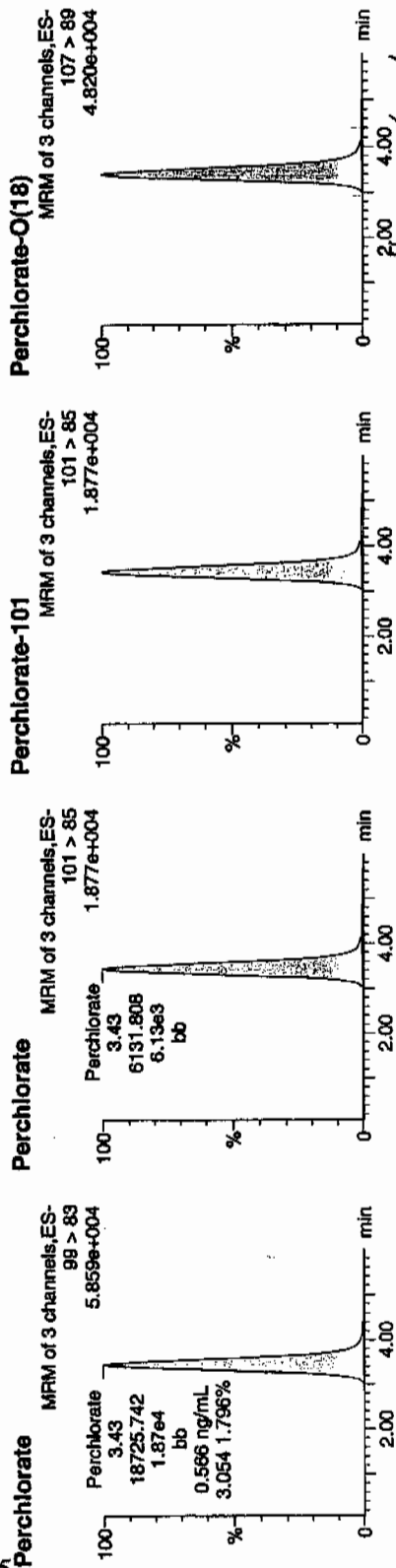
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125058a
Date: 26-Jan-2010
Time: 00:07:27
ID: WCL100118-06CCV
Y/al: 1:2,A

*Runs
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01-26-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.43	18725.742	18725.742	bb			0.5658	113.16	13.16	3017.1...	3.05
WCL100118-06CCV	Perchlorate-101	101 > 85	3.43	6131.808	6131.808	bb			0.5505	110.10	10.10	2572.6...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.42	15496.753	15496.753	bb			0.5546	110.92	10.92	5418.1...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125068a

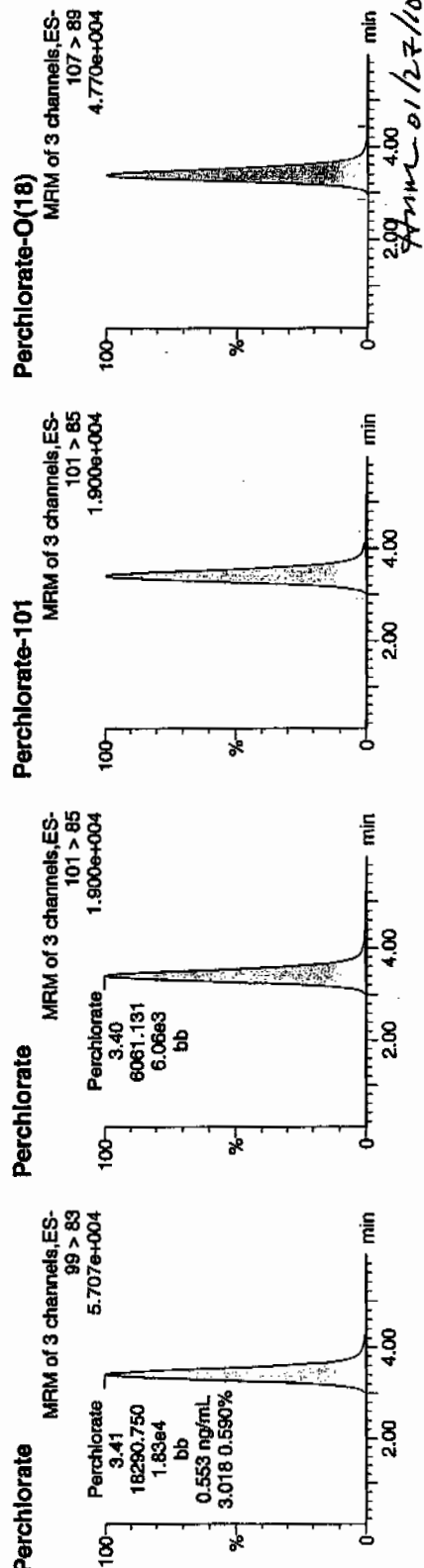
Date: 26-Jan-2010

Time: 01:38:14

ID: WCL100118-06CCV

Vial: 1:2,A

Per
 01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.41	18290.750	18290.750	bb			0.5526	110.53	10.53	5013.2...	3.02
WCL100118-06CCV	Perchlorate-101	101 > 85	3.40	6061.131	6061.131	bb			0.5442	108.83	8.83	2733.5...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.38	15223.981	15223.981	bb			0.5449	108.97	8.97	5526.4...	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1226

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	96.46	25-JAN-10 17:00	per0125011a
Perchlorate Isotope Ratio		2.75		25-JAN-10 17:00	per0125011a
Perchlorate-101	.05	.05	104.27	25-JAN-10 17:00	per0125011a
Perchlorate	.05	.05	99.52	25-JAN-10 18:57	per0125024a
Perchlorate Isotope Ratio		3.27		25-JAN-10 18:57	per0125024a
Perchlorate-101	.05	.05	90.3	25-JAN-10 18:57	per0125024a
Perchlorate	.05	.05	100.16	25-JAN-10 20:55	per0125037a
Perchlorate Isotope Ratio		3.15		25-JAN-10 20:55	per0125037a
Perchlorate-101	.05	.05	94.43	25-JAN-10 20:55	per0125037a
Perchlorate	.05	.05	104.99	25-JAN-10 22:45	per0125049a
Perchlorate Isotope Ratio		2.7		25-JAN-10 22:45	per0125049a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1226

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.06	115.55	25-JAN-10 22:45	per0125049a
Perchlorate	.05	.05	108.59	26-JAN-10 00:25	per0125060a
Perchlorate Isotope Ratio		2.77		26-JAN-10 00:25	per0125060a
Perchlorate-101	.05	.06	116.53	26-JAN-10 00:25	per0125060a
Perchlorate	.05	.05	109.13	26-JAN-10 01:56	per0125070a
Perchlorate Isotope Ratio		2.96		26-JAN-10 01:56	per0125070a
Perchlorate-101	.05	.05	109.45	26-JAN-10 01:56	per0125070a

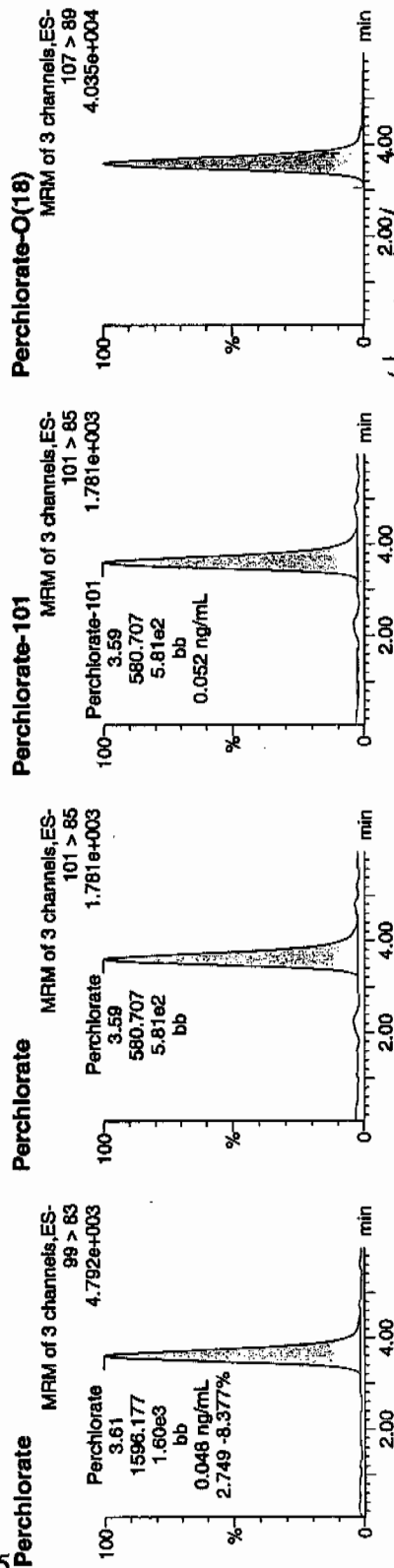
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125011a
Date: 25-Jan-2010
Time: 17:00:13
ID: WCL100118-07CRI
Vial: 1:2,B

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01-26-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
WCL100118-07CRI	Perchlorate	99 > 83	3.61	1596.177	1596.177	bb			0.0482	96.46	-3.54	137.714	2.75
WCL100118-07CRI	Perchlorate-101	101 > 85	3.59	580.707	580.707	bb			0.0521	104.27	4.27	208.873	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.58	13470.755	13470.755	bb			0.4821	96.42	-3.58	15382...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

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 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125024a

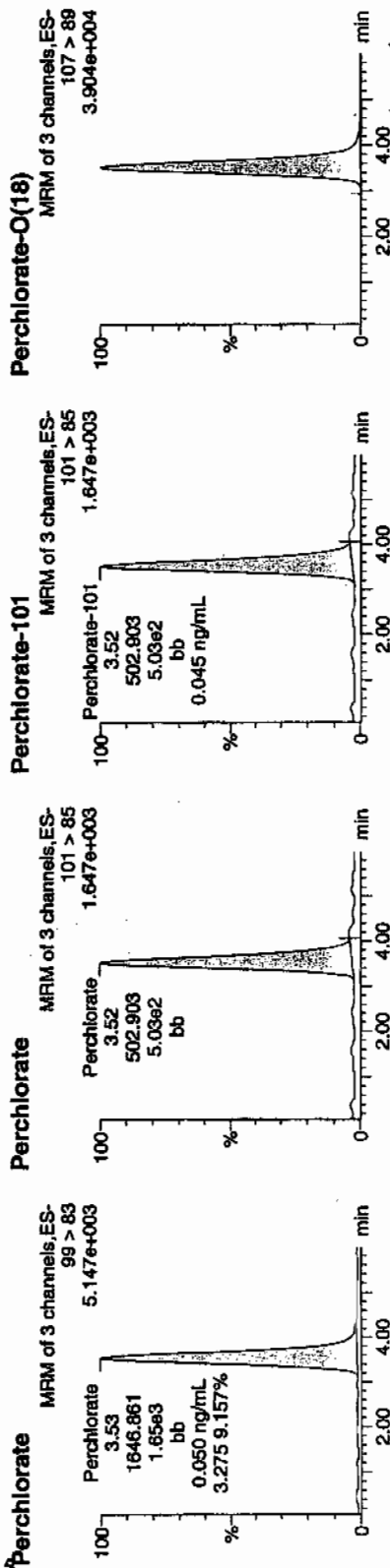
Date: 25-Jan-2010

Time: 18:57:45

ID: WCL100118-07CRI

Vial: 1:2,B

Pass
0126-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.53	1846.861	1846.861	bb			0.0498	99.52	-0.48	703.286	3.27
WCL100118-07CRI	Perchlorate-101	101 > 85	3.52	502.903	502.903	bb			0.0451	90.30	-9.70	301.884	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.52	12942.272	12942.272	bb			0.4632	92.64	-7.36	4751.0...	

Quantify Sample Report MassLynx 4.0 SP4

Page 37 of 70

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
 Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

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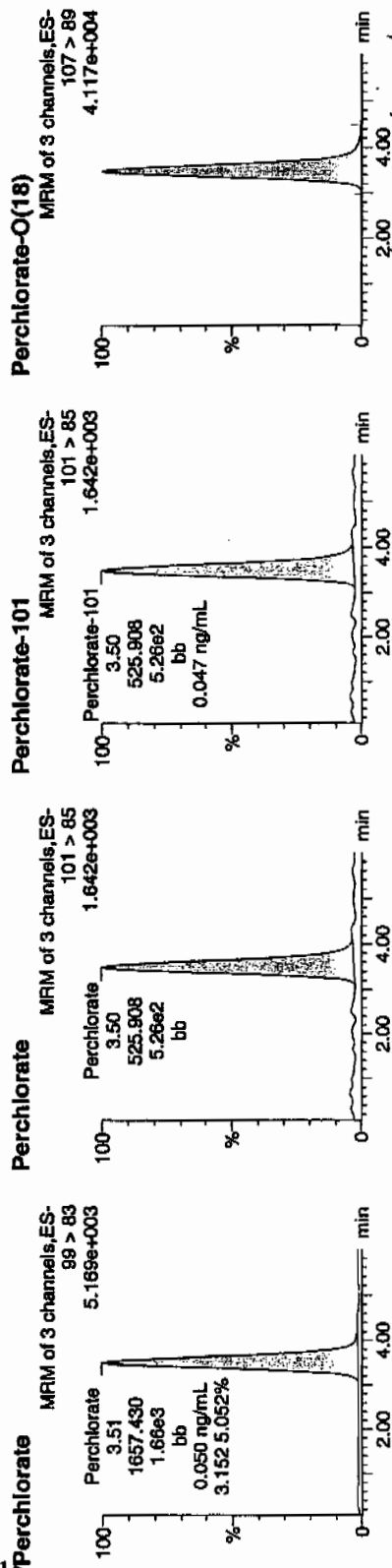
Date: 25-Jan-2010

Time: 20:55:22

ID: WCL100118-07CRI

Vial: 1:2,B

*Perchlorate
 01-26-10*



ID	Name	Trace	RT	Area	Response	Flag	Mod Time	Mod Date	Conc	%Rec	%Dev	SN	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.51	1657.430	1657.430	bb			0.0501	100.16	0.16	1466.8...	3.15
WCL100118-07CRI	Perchlorate-101	101 > 85	3.50	525.908	525.908	bb			0.0472	94.43	-5.57	83.616	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.48	13475.722	13475.722	bb			0.4823	96.46	-3.54	13709...	

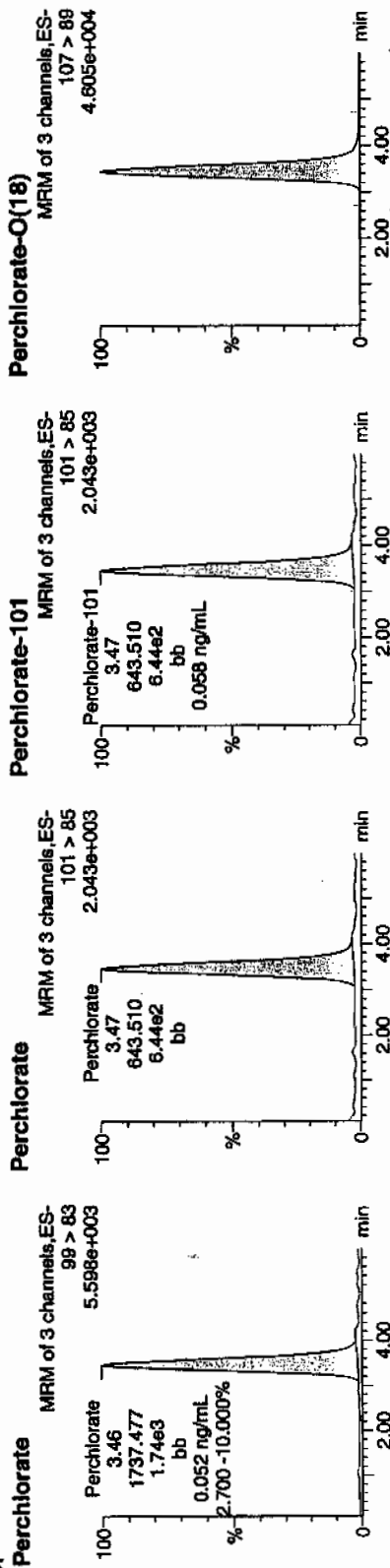
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125049a
Date: 25-Jan-2010
Time: 22:45:58
ID: WCL100118-07CRI
Vial: 1:2,B

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and
01-26-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.46	1737.477	1737.477	bb			0.0525	104.99	4.99	352.515	2.70
WCL100118-07CRI	Perchlorate-101	101 > 85	3.47	643.510	643.510	bb			0.0578	115.55	15.55	380.835	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.45	14924.513	14924.513	bb			0.5341	106.83	6.83	5786.7...	

4.99 352.515

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

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Name: per0125060a

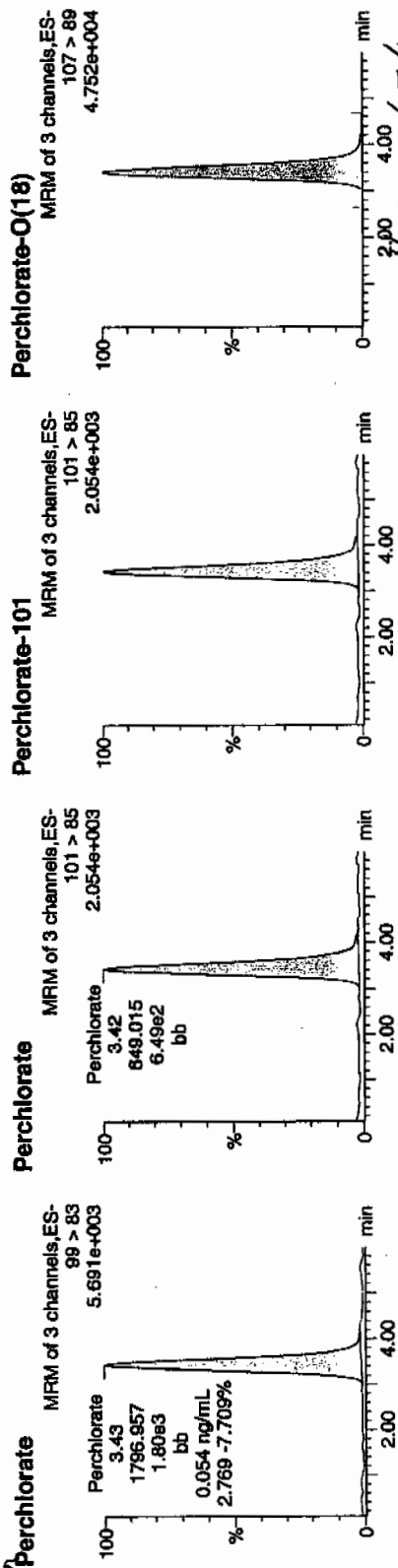
Date: 26-Jan-2010

Time: 00:25:45

ID: WCL100118-07CRI

Vial: 1:2,B

Perchlorate
Q1-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.43	1796.957	1796.957	bb			0.0543	108.59	8.59	213.774	2.77
WCL100118-07CRI	Perchlorate-101	101 > 85	3.42	849.015	849.015	bb			0.0583	116.53	16.53	247.928	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.42	15205.468	15205.468	bb			0.5442	108.84	8.84	3262.4...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125070a

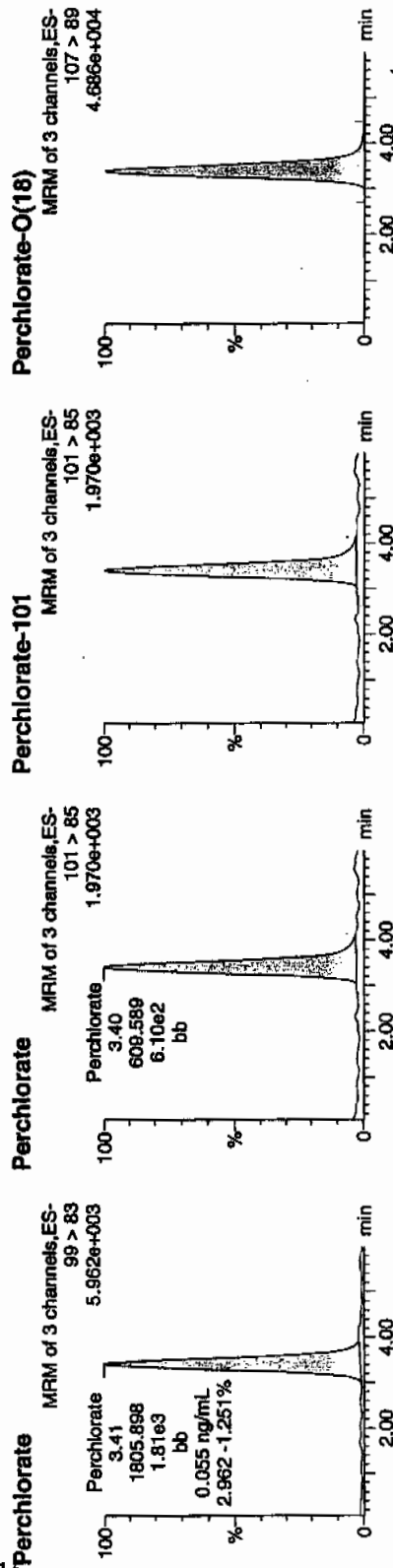
Date: 26-Jan-2010

Time: 01:56:31

ID: WCL100118-07CRI

Vial: 1:2,B

Perchlorate
01-26-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.41	1805.898	1805.898	bb			0.0546	109.13	9.13	355.572	2.96
WCL100118-07CRI	Perchlorate-101	101 > 85	3.40	609.589	609.589	bb			0.0547	109.45	9.45	426.952	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.38	15038.899	15038.899	bb			0.5382	107.65	7.65	4696.0...	

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: 942321
 Extraction Type: Solid Prep
 Client Sample No. MB
 Date Received: 25-JAN-10
 GEL Job No (SDG): 10-1226
 GEL Sample ID: 1202017267
 Date Filtered: 25-JAN-10
 Injection Volume (uL): 20
 %Solids: 100

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	25-JAN-10 21:32	per0125041a
	Perchlorate Isotope Ratio						1	25-JAN-10 21:32	per0125041a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	25-JAN-10 21:32	per0125041a
	Perchlorate-O(18)			4.85	ug/kg		1	25-JAN-10 21:32	per0125041a

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

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time

Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

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Sample Name: per0125041a

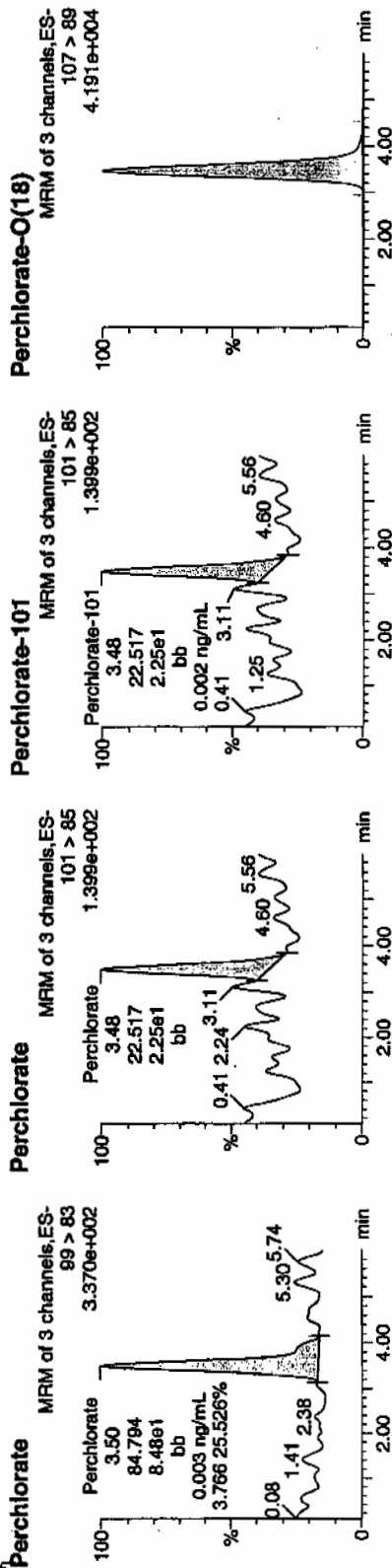
Date: 25-Jan-2010

Time: 21:32:24

ID: 1202017267

Vial: 2:1,A

1202017267 | 5020 | 101 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202017267	Perchlorate	99 > 83	3.50	84.794	84.794	bb			0.0028	-		25.561	3.77
1202017267	Perchlorate-101	101 > 85	3.48	22.517	22.517	bb			0.0020	-		8.666	
1202017267	Perchlorate-O(18)	107 > 89	3.47	13546.388	13546.388	bb			0.4848	96.96	-3.04	4176.3...	

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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 25-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 1202017268

Date Filtered: 25-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	2.01	ug/kg		1	25-JAN-10 21:42	per0125042a
	Perchlorate Isotope Ratio			3.13			1	25-JAN-10 21:42	per0125042a
14797-73-0	Perchlorate-101	.5	2	1.91	ug/kg	J	1	25-JAN-10 21:42	per0125042a
	Perchlorate-O(18)			5.02	ug/kg		1	25-JAN-10 21:42	per0125042a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125042a

Date: 25-Jan-2010

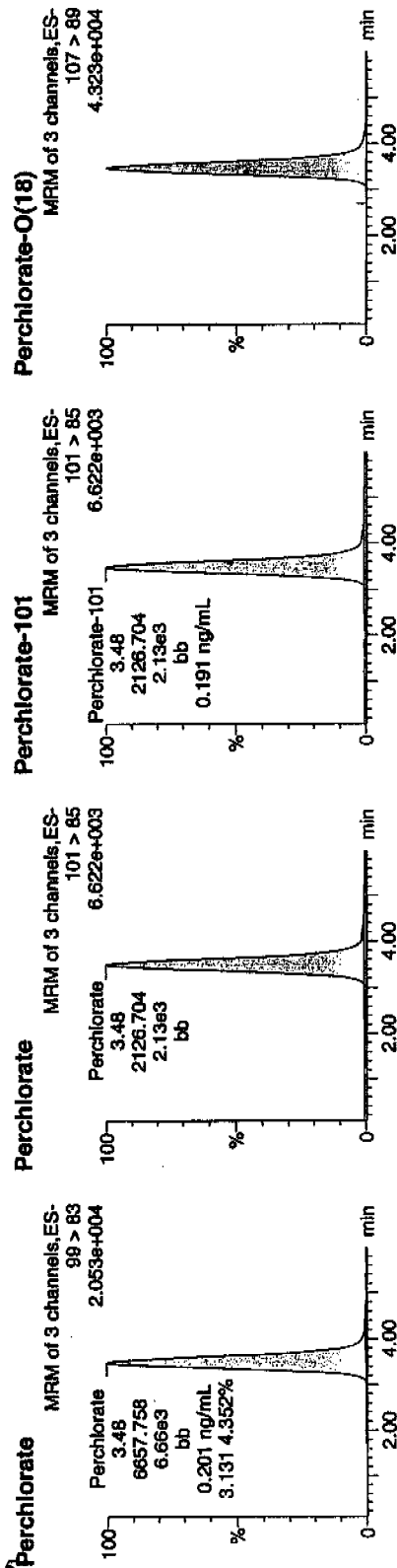
Time: 21:42:06

ID: 1202017268

Vial: 2:1,B

01-26-10

1202017268 | 942322 | 3020 | 4.5 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202017268	Perchlorate	99 > 83	3.48	6657.758	6657.758	bb			0.2012	100.58	0.58	2700.5...	3.13
1202017268	Perchlorate-101	101 > 85	3.48	2126.704	2126.704	bb			0.1909	95.46	-4.54	333.435	
1202017268	Perchlorate-O(18)	107 > 89	3.47	14039.981	14039.981	bb			0.5025	100.50	-0.50	2071.5...	

$$\frac{6657.758}{33096.5} = 0.2012$$

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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: 242321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7262MS

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 1202017262

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 91.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.549	2.19	2.54	ug/kg		1	25-JAN-10 22:09	per0125045a
	Perchlorate Isotope Ratio			3.17			1	25-JAN-10 22:09	per0125045a
14797-73-0	Perchlorate-101	.549	2.19	2.38	ug/kg		1	25-JAN-10 22:09	per0125045a
	Perchlorate-O(18)			5.86	ug/kg		1	25-JAN-10 22:09	per0125045a

[^] 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

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

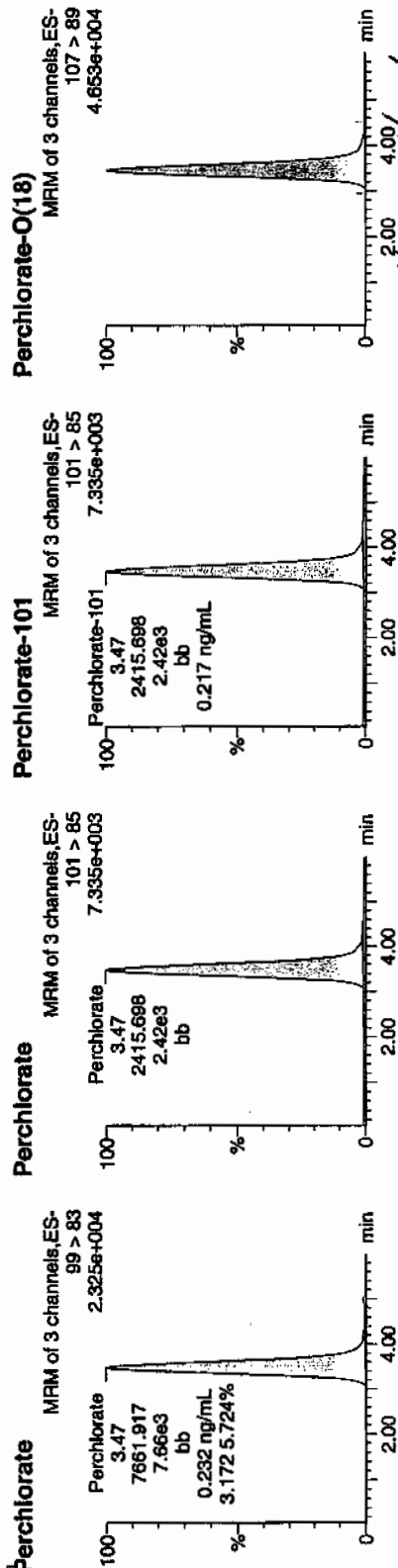
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Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125045a
Date: 25-Jan-2010
Time: 22:09:25
ID: 1202017269
Vial: 2:1,E

01-26-10

1202017269 | 1202017269 | 1202017269



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202017269	Perchlorate	99 > 83	3.47	7661.917	7661.917	bb			0.2315	115.75	15.75	1831.8...	3.17
1202017269	Perchlorate-101	101 > 85	3.47	2415.698	2415.698	bb			0.2169	108.44	8.44	395.698	
1202017269	Perchlorate-O(18)	107 > 89	3.46	14924.575	14924.575	bb			0.5341	106.83	6.83	5202.7...	

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: 942321

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE12-10-7262MSD

Date Received: 13-JAN-10

GEL Job No (SDG): 10-1226

GEL Sample ID: 1202017270

Date Filtered: 25-JAN-10

Injection Volume (uL): 20

%Solids: 91.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.549	2.19	2.86	ug/kg		1	25-JAN-10 22:18	per0125046a
	Perchlorate Isotope Ratio			3.07			1	25-JAN-10 22:18	per0125046a
14797-73-0	Perchlorate-101	.549	2.19	2.76	ug/kg		1	25-JAN-10 22:18	per0125046a
	Perchlorate-O(18)			6.26	ug/kg		1	25-JAN-10 22:18	per0125046a

[^] 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

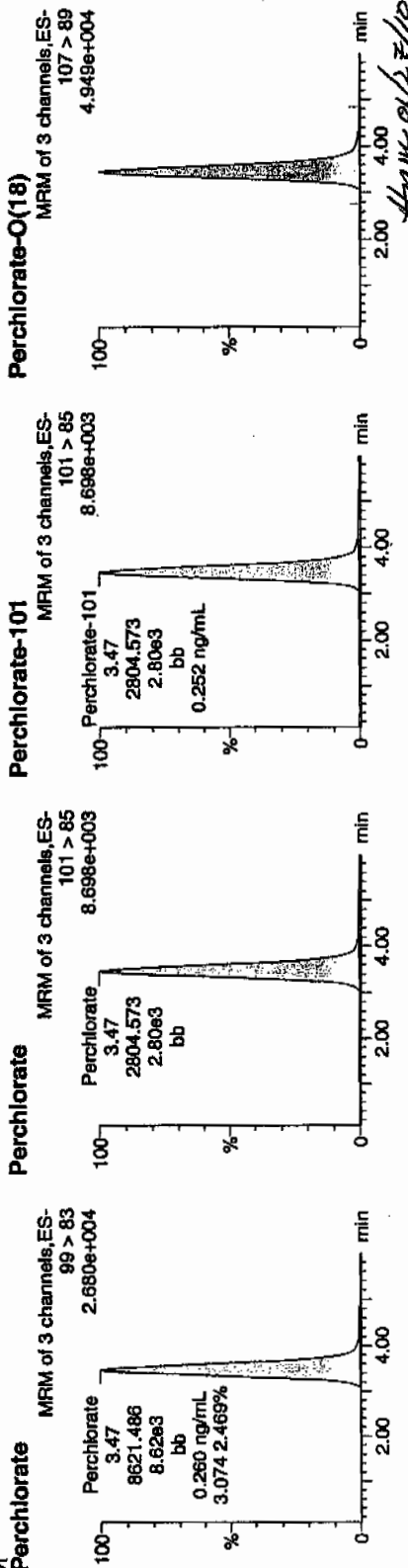
Dataset: C:\MassLynx\Pchlorate.PRO\per012510a.qld

Last Altered: Tuesday, January 26, 2010 10:13:35 AM Eastern Standard Time
Printed: Tuesday, January 26, 2010 10:22:30 AM Eastern Standard Time

Name: per0125046a
Date: 25-Jan-2010
Time: 22:18:33
ID: 1202017270
File: 2:1.F

662
9-26-10

192222 | 5020 | MSO | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	% Rec	% Dev	SN	Ion Ratio
1202017270	Perchlorate	99 > 83	3.47	8621.486	8621.486	bb			0.2605	130.25	30.25	4276.0...	3.07
1202017270	Perchlorate-101	101 > 85	3.47	2804.573	2804.573	bb			0.2518	125.89	25.89	1794.2...	
1202017270	Perchlorate-O(18)	107 > 89	3.46	15934.615	15934.615	bb			0.5703	114.06	14.06	21925....	

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: 942321 Verified by: _____
 Analyst: Jareth Shirley 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)
1202017267 MB	25-JAN-2010 11:46:15	2	20	10
1202017268 LCS	25-JAN-2010 11:46:15	2	20	10
244628001	25-JAN-2010 11:46:15	2	20	10
1202017269 MS (244628001)	25-JAN-2010 11:46:15	2	20	10
1202017270 MSD (244628001)	25-JAN-2010 11:46:15	2	20	10
244628002	25-JAN-2010 11:46:15	2	20	10
244628003	25-JAN-2010 11:46:15	2	20	10
244628004	25-JAN-2010 11:46:15	2	20	10
244628005	25-JAN-2010 11:46:15	2	20	10
244628006	25-JAN-2010 11:46:15	2	20	10
244628007	25-JAN-2010 11:46:15	2	20	10
244628008	25-JAN-2010 11:46:15	2	20	10
244628009	25-JAN-2010 11:46:15	2	20	10
244628010	25-JAN-2010 11:46:15	2	20	10
244628011	25-JAN-2010 11:46:15	2	20	10
244628012	25-JAN-2010 11:46:15	2	20	10
244628013	25-JAN-2010 11:46:15	2	20	10
244628014	25-JAN-2010 11:46:15	2	20	10
244628015	25-JAN-2010 11:46:15	2	20	10
244628016	25-JAN-2010 11:46:15	2	20	10
1202017271 ICS	25-JAN-2010 11:46:15	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
ICS	1202017271	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.4	mL	Desulging cartridges used: 090406-1-Ba & 091125-1-H
LCS	1202017268	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.4	mL	
MS	1202017269	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.4	mL	
MSD	1202017270	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS#2

Date: 01/25/10
Extr. Injection Volume: 20uL
Sequence Number: per012510a
Initial Calibration Date: 01/25/10

Method: EPA 6850-Modified
Int. Std.: UCL100122-01
Mobile Phase Lot#: 1254342, 1246195
Standard-Samp Reagent Lot#: 1233976

Reviewed BY: *[Signature]*
Date: 01/27/10
SOP: GL-OA-E-067 Rev.6
Alt Check Std. ID: WCL100118-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0125001a	IPB001	CWW	1/25/2010 15:29			1		USE	B
per0125002a	IPB001	CWW	1/25/2010 15:38			1		USE	B
per0125003a	WCLICAL-01	CWW	1/25/2010 15:47			1		USE	I
per0125004a	WCLICAL-02	CWW	1/25/2010 15:56			1		USE	I
per0125005a	WCLICAL-03	CWW	1/25/2010 16:05			1		USE	I
per0125006a	WCLICAL-04	CWW	1/25/2010 16:14			1		USE	I
per0125007a	WCLICAL-05	CWW	1/25/2010 16:23			1		USE	I
per0125008a	IPB002	CWW	1/25/2010 16:32			1		USE	B
per0125009a	WCLICV	CWW	1/25/2010 16:42			1		USE	C
per0125010a	IPB003	CWW	1/25/2010 16:51			1		USE	B
per0125011a	WCLCRI	CWW	1/25/2010 17:00			1		USE	C
per0125012a	1202023086	CWW	1/25/2010 17:09	944714	VARIOUS	1	LANL	USE	S
per0125013a	1202023087	CWW	1/25/2010 17:18	944714	VARIOUS	1	LANL	USE	S
per0125014a	1202023090	CWW	1/25/2010 17:27	944714	VARIOUS	1	LANL	USE	S
per0125015a	244892001	CWW	1/25/2010 17:36	944714	10-1280	1	LANL	USE	S
per0125016a	244892002	CWW	1/25/2010 17:45	944714	10-1280	1	LANL	USE	S
per0125017a	244892003	CWW	1/25/2010 17:54	944714	10-1280	1	LANL	USE	S
per0125018a	244892004	CWW	1/25/2010 18:03	944714	10-1280	1	LANL	USE	S
per0125019a	244913001	CWW	1/25/2010 18:12	944714	10-1282-1	1	LANL	USE	S
per0125020a	244913002	CWW	1/25/2010 18:21	944714	10-1282-1	1	LANL	USE	S
per0125021a	244913003	CWW	1/25/2010 18:30	944714	10-1282-1	1	LANL	USE	S
per0125022a	WCLCCV	CWW	1/25/2010 18:39			1		USE	C
per0125023a	IPB004	CWW	1/25/2010 18:48			1		USE	B
per0125024a	WCLCRI	CWW	1/25/2010 18:57			1		USE	C
per0125025a	244913004	CWW	1/25/2010 19:06	944714	10-1282-1	1	LANL	USE	S
per0125026a	244913005	CWW	1/25/2010 19:15	944714	10-1282-1	1	LANL	USE	S
per0125027a	244913006	CWW	1/25/2010 19:24	944714	10-1282-1	1	LANL	USE	S
per0125028a	244913007	CWW	1/25/2010 19:33	944714	10-1282-1	1	LANL	USE	S
per0125029a	244913008	CWW	1/25/2010 19:42	944714	10-1282-1	1	LANL	USE	S

per0125030a	244916002	CWW	1/25/2010 19:52	944714	10-1284	1	LANL	USE	S
per0125031a	244916003	CWW	1/25/2010 20:01	944714	10-1284	1	LANL	USE	S
per0125032a	244920001	CWW	1/25/2010 20:10	944714	10-1286-1	1	LANL	USE	S
per0125033a	1202023088	CWW	1/25/2010 20:19	944714	10-1286-1	1	LANL	USE	S
per0125034a	1202023089	CWW	1/25/2010 20:28	944714	10-1286-1	1	LANL	USE	S
per0125035a	WCLCCV	CWW	1/25/2010 20:37			1		USE	C
per0125036a	IPB005	CWW	1/25/2010 20:46			1		USE	B
per0125037a	WCLCRI	CWW	1/25/2010 20:55			1		USE	C
per0125038a	244920002	CWW	1/25/2010 21:04	944714	10-1286-1	1	LANL	USE	S
per0125039a	244920003	CWW	1/25/2010 21:13	944714	10-1286-1	1	LANL	USE	S
per0125040a	IPB006	CWW	1/25/2010 21:22			1		USE	B
per0125041a	1202017267	CWW	1/25/2010 21:32	942322	10-1226	1	LANL	USE	S
per0125042a	1202017268	CWW	1/25/2010 21:42	942322	10-1226	1	LANL	USE	S
per0125043a	1202017271	CWW	1/25/2010 21:51	942322	10-1226	1	LANL	USE	S
per0125044a	244628001	CWW	1/25/2010 22:00	942322	10-1226	1	LANL	USE	S
per0125045a	1202017269	CWW	1/25/2010 22:09	942322	10-1226	1	LANL	USE	S
per0125046a	1202017270	CWW	1/25/2010 22:18	942322	10-1226	1	LANL	USE	S
per0125047a	WCLCCV	CWW	1/25/2010 22:27			1		USE	C
per0125048a	IPB007	CWW	1/25/2010 22:36			1		USE	B
per0125049a	WCLCRI	CWW	1/25/2010 22:45			1		USE	C
per0125050a	244628002	CWW	1/25/2010 22:55	942322	10-1226	1	LANL	USE	S
per0125051a	244628003	CWW	1/25/2010 23:04	942322	10-1226	1	LANL	USE	S
per0125052a	244628004	CWW	1/25/2010 23:13	942322	10-1226	1	LANL	USE	S
per0125053a	244628005	CWW	1/25/2010 23:22	942322	10-1226	1	LANL	USE	S
per0125054a	244628006	CWW	1/25/2010 23:31	942322	10-1226	1	LANL	USE	S
per0125055a	244628007	CWW	1/25/2010 23:40	942322	10-1226	1	LANL	USE	S
per0125056a	244628008	CWW	1/25/2010 23:49	942322	10-1226	1	LANL	USE	S
per0125057a	244628009	CWW	1/25/2010 23:58	942322	10-1226	1	LANL	USE	S
per0125058a	WCLCCV	CWW	1/26/2010 0:07			1		USE	C
per0125059a	IPB008	CWW	1/26/2010 0:16			1		USE	B
per0125060a	WCLCRI	CWW	1/26/2010 0:25			1		USE	C
per0125061a	244628010	CWW	1/26/2010 0:34	942322	10-1226	1	LANL	USE	S
per0125062a	244628011	CWW	1/26/2010 0:44	942322	10-1226	1	LANL	USE	S
per0125063a	244628012	CWW	1/26/2010 0:53	942322	10-1226	1	LANL	USE	S
per0125064a	244628013	CWW	1/26/2010 1:02	942322	10-1226	1	LANL	USE	S
per0125065a	244628014	CWW	1/26/2010 1:11	942322	10-1226	1	LANL	USE	S
per0125066a	244628015	CWW	1/26/2010 1:20	942322	10-1226	1	LANL	USE	S

per0125067a	244628016	CWW	1/26/2010 1:29	942322	10-1226	1	LANL	USE	S
per0125068a	WCLCCV	CWW	1/26/2010 1:38			1		USE	C
per0125069a	IPB009	CWW	1/26/2010 1:47			1		USE	B
per0125070a	WCLCRI	CWW	1/26/2010 1:56			1		USE	C

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1226**

Sample Analysis

Sample ID	Client ID
244628001	RE12-10-7262
244628002	RE12-10-7266
244628003	RE12-10-7258
244628004	RE12-10-7268
244628005	RE12-10-7265
244628006	RE12-10-7261
244628007	RE12-10-7259
244628008	RE12-10-7263
244628009	RE12-10-7271
244628010	RE12-10-7260
244628011	RE12-10-7267
244628012	RE12-10-7264
244628013	RE12-10-7270
244628014	RE12-10-7269
244628015	RE12-10-7283
244628016	RE12-10-7282
1202015835	Method Blank (MB) ICP
1202037290	Method Blank (MB) ICP
1202015840	Laboratory Control Sample (LCS)
1202037291	Laboratory Control Sample (LCS)

1202015837	244628001(RE12-10-7262L) Serial Dilution (SD)
1202015836	244628001(RE12-10-7262D) Sample Duplicate (DUP)
1202015838	244628001(RE12-10-7262S) Matrix Spike (MS)
1202015839	244628001(RE12-10-7262SD) Matrix Spike Duplicate (MSD)
1202015846	Method Blank (MB) ICP-MS
1202035553	Method Blank (MB) ICP-MS
1202015851	Laboratory Control Sample (LCS)
1202035554	Laboratory Control Sample (LCS)
1202015848	244628001(RE12-10-7262L) Serial Dilution (SD)
1202015847	244628001(RE12-10-7262D) Sample Duplicate (DUP)
1202015849	244628001(RE12-10-7262S) Matrix Spike (MS)
1202015850	244628001(RE12-10-7262SD) Matrix Spike Duplicate (MSD)
1202019757	Method Blank (MB) CVAA
1202019758	Laboratory Control Sample (LCS)
1202019763	244628001(RE12-10-7262L) Serial Dilution (SD)
1202019759	244628001(RE12-10-7262D) Sample Duplicate (DUP)
1202019760	244628001(RE12-10-7262S) Matrix Spike (MS)
1202019764	244628001(RE12-10-7262SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	941795, 950667, 941798, 950023 and 943309
Prep Batch :	941792, 950666, 941796, 950022 and 943308
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

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

System Configuration

The Metals analysis-ICP was performed on a P E 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

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

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following sample was selected as the quality control (QC) sample for this SDG: 244628001.

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 selenium and thallium, as indicated by the "N" qualifiers.

Matrix Spike Duplicate (MSD) Recovery Statement

The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exception of beryllium and thallium, 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 \pm RL is used to evaluate the DUP results. All applicable analytes met these requirements with the exception of aluminum, potassium and zinc, as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

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

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 788007 and 788492. 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 Parson Date: 2/9/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628001

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7262

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 91.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6060000	ug/Kg	*	7400	21800	21800	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-36-0	Antimony	364	ug/Kg	J	359	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-38-2	Arsenic	1.41	mg/kg		0.218	1.09	1.09	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-39-3	Barium	55200	ug/Kg		109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-41-7	Beryllium	0.728	mg/kg	N	0.0218	0.109	0.109	2	MS	RMJ	02/06/10 21:34	100206-5	941798
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-70-2	Calcium	2210000	ug/Kg		8710	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-47-3	Chromium	22700	ug/Kg		163	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-48-4	Cobalt	2670	ug/Kg		163	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-50-8	Copper	2610	ug/Kg		282	939	939	1	P	HSC	02/09/10 07:13	020910-1	950667
7439-89-6	Iron	10900000	ug/Kg		8710	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-92-1	Lead	9150	ug/Kg		272	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-95-4	Magnesium	1120000	ug/Kg		9250	32700	32700	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-96-5	Manganese	265000	ug/Kg		218	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795
7439-97-6	Mercury	12.7	ug/kg		4.26	12.5	12.5	1	AV	JXL1	01/28/10 12:59	012810S1-8	943309
7440-02-0	Nickel	3.76	mg/kg		0.109	0.435	0.435	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-09-7	Potassium	903000	ug/Kg	*	6970	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7782-49-2	Selenium	1.09	mg/kg	UN	0.544	1.09	1.09	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-22-4	Silver	421	ug/Kg	J	109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-23-5	Sodium	80200	ug/Kg		7620	27200	27200	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-28-0	Thallium	0.0875	mg/kg	JN	0.0653	0.218	0.218	2	MS	RMJ	01/30/10 17:47	100129-4	941798
7440-61-1	Uranium	0.945	mg/kg		0.0134	0.0406	0.0406	2	MS	SKJ	02/09/10 11:52	100209-3	950023
7440-62-2	Vanadium	13800	ug/Kg		109	544	544	1	P	HSC	01/29/10 23:25	012910-2	941795
7440-66-6	Zinc	28000	ug/Kg	*	359	1090	1090	1	P	HSC	01/29/10 23:25	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.504	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.504	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.526	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.541	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.584	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628002

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7266

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 80

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2420000	ug/Kg	*	8270	24300	24300	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-36-0	Antimony	1070	ug/Kg	J	402	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-38-2	Arsenic	1.19	mg/kg	J	0.244	1.22	1.22	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-39-3	Barium	41700	ug/Kg		122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-41-7	Beryllium	0.965	mg/kg	N	0.0244	0.122	0.122	2	MS	RMJ	02/06/10 21:47	100206-5	941798
7440-43-9	Cadmium	134	ug/Kg	J	122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-70-2	Calcium	2070000	ug/Kg		9730	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-47-3	Chromium	38100	ug/Kg		183	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-48-4	Cobalt	1140	ug/Kg		183	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-50-8	Copper	3840	ug/Kg		368	1230	1230	1	P	HSC	02/09/10 07:39	020910-1	950667
7439-89-6	Iron	7130000	ug/Kg		9730	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-92-1	Lead	7880	ug/Kg		304	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-95-4	Magnesium	498000	ug/Kg		10300	36500	36500	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-96-5	Manganese	264000	ug/Kg		243	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795
7439-97-6	Mercury	5.09	ug/kg	J	4.8	14.1	14.1	1	AV	JXL1	01/28/10 13:07	012810S1-8	943309
7440-02-0	Nickel	3.23	mg/kg		0.122	0.489	0.489	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-09-7	Potassium	477000	ug/Kg	*	7790	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7782-49-2	Selenium	1.22	mg/kg	UN	0.611	1.22	1.22	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-22-4	Silver	363	ug/Kg	J	122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-23-5	Sodium	42400	ug/Kg		8520	30400	30400	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-28-0	Thallium	0.0916	mg/kg	JN	0.0733	0.244	0.244	2	MS	RMJ	01/30/10 18:17	100129-4	941798
7440-61-1	Uranium	2.63	mg/kg		0.0149	0.0451	0.0451	2	MS	SKJ	02/09/10 12:03	100209-3	950023
7440-62-2	Vanadium	5970	ug/Kg		122	608	608	1	P	HSC	01/30/10 00:14	012910-2	941795
7440-66-6	Zinc	37100	ug/Kg	*	402	1220	1220	1	P	HSC	01/30/10 00:14	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.51	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.529	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.552	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.508	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628003

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7258

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4040000	ug/Kg	*	7850	23100	23100	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-36-0	Antimony	1360	ug/Kg		381	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-38-2	Arsenic	1.34	mg/kg		0.231	1.15	1.15	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-39-3	Barium	36000	ug/Kg		115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-41-7	Beryllium	0.709	mg/kg	N	0.0231	0.115	0.115	2	MS	RMJ	02/06/10 21:50	100206-5	941798
7440-43-9	Cadmium	577	ug/Kg	U	115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-70-2	Calcium	638000	ug/Kg		9240	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-47-3	Chromium	60400	ug/Kg		173	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-48-4	Cobalt	4830	ug/Kg		173	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-50-8	Copper	3730	ug/Kg		314	1050	1050	1	P	HSC	02/09/10 07:42	020910-1	950667
7439-89-6	Iron	9590000	ug/Kg		9240	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-92-1	Lead	6400	ug/Kg		289	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-95-4	Magnesium	563000	ug/Kg		9820	34600	34600	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-96-5	Manganese	296000	ug/Kg		231	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795
7439-97-6	Mercury	20.1	ug/kg		4.37	12.9	12.9	1	AV	JXL1	01/28/10 13:09	012810S1-8	943309
7440-02-0	Nickel	4.89	mg/kg		0.115	0.461	0.461	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-09-7	Potassium	589000	ug/Kg	*	7390	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7782-49-2	Selenium	1.15	mg/kg	UN	0.576	1.15	1.15	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-22-4	Silver	502	ug/Kg	J	115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-23-5	Sodium	128000	ug/Kg		8080	28900	28900	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-28-0	Thallium	0.0781	mg/kg	JN	0.0692	0.231	0.231	2	MS	RMJ	01/30/10 18:23	100129-4	941798
7440-61-1	Uranium	1.39	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	02/09/10 12:05	100209-3	950023
7440-62-2	Vanadium	8340	ug/Kg		115	577	577	1	P	HSC	01/30/10 00:21	012910-2	941795
7440-66-6	Zinc	28400	ug/Kg	*	381	1150	1150	1	P	HSC	01/30/10 00:21	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.505	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.506	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.544	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.525	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.557	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628004

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7268

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 90.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3360000	ug/Kg	*	7360	21700	21700	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-36-0	Antimony	1080	ug/Kg	U	357	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-38-2	Arsenic	1.04	mg/kg	J	0.217	1.08	1.08	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-39-3	Barium	40100	ug/Kg		108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-41-7	Beryllium	0.679	mg/kg	N	0.0217	0.108	0.108	2	MS	RMJ	02/06/10 21:53	100206-5	941798
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-70-2	Calcium	647000	ug/Kg		8660	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-47-3	Chromium	3910	ug/Kg		162	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-48-4	Cobalt	1590	ug/Kg		162	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-50-8	Copper	4540	ug/Kg		327	1090	1090	1	P	HSC	02/09/10 07:46	020910-1	950667
7439-89-6	Iron	10000000	ug/Kg		8660	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-92-1	Lead	10800	ug/Kg		271	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-95-4	Magnesium	603000	ug/Kg		9200	32500	32500	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-96-5	Manganese	330000	ug/Kg		217	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795
7439-97-6	Mercury	5.7	ug/kg	J	3.91	11.5	11.5	1	AV	JXL1	01/28/10 13:11	012810S1-8	943309
7440-02-0	Nickel	1.87	mg/kg		0.108	0.433	0.433	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-09-7	Potassium	530000	ug/Kg	*	6930	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7782-49-2	Selenium	1.08	mg/kg	UN	0.541	1.08	1.08	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-22-4	Silver	523	ug/Kg	J	108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-23-5	Sodium	48800	ug/Kg		7580	27100	27100	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-28-0	Thallium	0.217	mg/kg	UN	0.065	0.217	0.217	2	MS	RMJ	01/30/10 18:29	100129-4	941798
7440-61-1	Uranium	3.89	mg/kg		0.0143	0.0433	0.0433	2	MS	SKJ	02/09/10 12:12	100209-3	950023
7440-62-2	Vanadium	8030	ug/Kg		108	541	541	1	P	HSC	01/30/10 00:28	012910-2	941795
7440-66-6	Zinc	45600	ug/Kg	*	357	1080	1080	1	P	HSC	01/30/10 00:28	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.578	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.512	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.508	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628005

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7265

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1970000	ug/Kg	*	7090	20900	20900	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-36-0	Antimony	1040	ug/Kg	U	344	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-38-2	Arsenic	0.451	mg/kg	J	0.205	1.02	1.02	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-39-3	Barium	10400	ug/Kg		104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-41-7	Beryllium	0.692	mg/kg	N	0.0205	0.102	0.102	2	MS	RMJ	02/06/10 22:01	100206-5	941798
7440-43-9	Cadmium	521	ug/Kg	U	104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-70-2	Calcium	264000	ug/Kg		8340	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-47-3	Chromium	2320	ug/Kg		156	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-48-4	Cobalt	399	ug/Kg	J	156	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-50-8	Copper	2280	ug/Kg		272	908	908	1	P	HSC	02/09/10 07:50	020910-1	950667
7439-89-6	Iron	7700000	ug/Kg		8340	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-92-1	Lead	6310	ug/Kg		261	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-95-4	Magnesium	370000	ug/Kg		8860	31300	31300	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-96-5	Manganese	292000	ug/Kg		209	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795
7439-97-6	Mercury	12.6	ug/kg	U	4.29	12.6	12.6	1	AV	JXL1	01/28/10 13:16	012810S1-8	943309
7440-02-0	Nickel	0.837	mg/kg		0.102	0.409	0.409	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-09-7	Potassium	320000	ug/Kg	*	6670	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7782-49-2	Selenium	1.02	mg/kg	UN	0.511	1.02	1.02	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-22-4	Silver	369	ug/Kg	J	104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-23-5	Sodium	200000	ug/Kg		7300	26100	26100	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-28-0	Thallium	0.205	mg/kg	UN	0.0614	0.205	0.205	2	MS	RMJ	01/30/10 18:34	100129-4	941798
7440-61-1	Uranium	0.615	mg/kg		0.013	0.0395	0.0395	2	MS	SKJ	02/09/10 12:14	100209-3	950023
7440-62-2	Vanadium	2700	ug/Kg		104	521	521	1	P	HSC	01/30/10 00:35	012910-2	941795
7440-66-6	Zinc	48300	ug/Kg	*	344	1040	1040	1	P	HSC	01/30/10 00:35	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.511	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.521	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.507	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.539	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.587	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628006

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7261

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7320000	ug/Kg	*	7510	22100	22100	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-36-0	Antimony	926	ug/Kg	J	364	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-38-2	Arsenic	1.84	mg/kg		0.227	1.13	1.13	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-39-3	Barium	67700	ug/Kg		110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-41-7	Beryllium	1.17	mg/kg	N	0.0227	0.113	0.113	2	MS	RMJ	02/06/10 22:03	100206-5	941798
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-70-2	Calcium	2410000	ug/Kg		8840	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-47-3	Chromium	43800	ug/Kg		166	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-48-4	Cobalt	2570	ug/Kg		166	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-50-8	Copper	5310	ug/Kg		337	1120	1120	1	P	HSC	02/09/10 07:53	020910-1	950667
7439-89-6	Iron	10000000	ug/Kg		8840	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-92-1	Lead	8010	ug/Kg		276	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-95-4	Magnesium	1290000	ug/Kg		9390	33100	33100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-96-5	Manganese	217000	ug/Kg		221	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795
7439-97-6	Mercury	31.6	ug/kg		4.57	13.4	13.4	1	AV	JXL1	01/28/10 13:17	012810S1-8	943309
7440-02-0	Nickel	7.16	mg/kg		0.113	0.453	0.453	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-09-7	Potassium	951000	ug/Kg	*	7070	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7782-49-2	Selenium	1.13	mg/kg	UN	0.566	1.13	1.13	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-22-4	Silver	438	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-23-5	Sodium	94400	ug/Kg		7730	27600	27600	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-28-0	Thallium	0.127	mg/kg	JN	0.068	0.227	0.227	2	MS	RMJ	01/30/10 18:52	100129-4	941798
7440-61-1	Uranium	1.27	mg/kg		0.0152	0.046	0.046	2	MS	SKJ	02/09/10 12:16	100209-3	950023
7440-62-2	Vanadium	12400	ug/Kg		110	552	552	1	P	HSC	01/30/10 00:42	012910-2	941795
7440-66-6	Zinc	25400	ug/Kg	*	364	1100	1100	1	P	HSC	01/30/10 00:42	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.522	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.509	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.515	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.501	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.514	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628007

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7259

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 93.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3880000	ug/Kg	*	7160	21100	21100	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-36-0	Antimony	1050	ug/Kg	U	347	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-38-2	Arsenic	1.23	mg/kg		0.205	1.02	1.02	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-39-3	Barium	28200	ug/Kg		105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-41-7	Beryllium	0.662	mg/kg	N	0.0205	0.102	0.102	2	MS	RMJ	02/06/10 22:06	100206-5	941798
7440-43-9	Cadmium	526	ug/Kg	U	105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-70-2	Calcium	587000	ug/Kg		8420	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-47-3	Chromium	15200	ug/Kg		158	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-48-4	Cobalt	1570	ug/Kg		158	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-50-8	Copper	3020	ug/Kg		315	1050	1050	1	P	HSC	02/09/10 07:57	020910-1	950667
7439-89-6	Iron	7760000	ug/Kg		8420	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-92-1	Lead	5060	ug/Kg		263	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-95-4	Magnesium	486000	ug/Kg		8950	31600	31600	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-96-5	Manganese	212000	ug/Kg		211	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795
7439-97-6	Mercury	27.4	ug/kg		4.09	12	12	1	AV	JXL1	01/28/10 13:19	012810S1-8	943309
7440-02-0	Nickel	3.24	mg/kg		0.102	0.41	0.41	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-09-7	Potassium	471000	ug/Kg	*	6740	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7782-49-2	Selenium	1.02	mg/kg	UN	0.512	1.02	1.02	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-22-4	Silver	392	ug/Kg	J	105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-23-5	Sodium	98000	ug/Kg		7370	26300	26300	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-28-0	Thallium	0.0662	mg/kg	JN	0.0615	0.205	0.205	2	MS	RMJ	01/30/10 18:58	100129-4	941798
7440-61-1	Uranium	0.520	mg/kg		0.0131	0.0398	0.0398	2	MS	SKJ	02/09/10 12:18	100209-3	950023
7440-62-2	Vanadium	6200	ug/Kg		105	526	526	1	P	HSC	01/30/10 00:49	012910-2	941795
7440-66-6	Zinc	20700	ug/Kg	*	347	1050	1050	1	P	HSC	01/30/10 00:49	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.508	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.522	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.533	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.538	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.509	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628008

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7263

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6020000	ug/Kg	*	6980	20500	20500	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-36-0	Antimony	470	ug/Kg	J	339	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-38-2	Arsenic	1.8	mg/kg		0.209	1.04	1.04	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-39-3	Barium	44900	ug/Kg		103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-41-7	Beryllium	1.01	mg/kg	N	0.0209	0.104	0.104	2	MS	RMJ	02/06/10 22:09	100206-5	941798
7440-43-9	Cadmium	513	ug/Kg	U	103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-70-2	Calcium	1680000	ug/Kg		8210	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-47-3	Chromium	18500	ug/Kg		154	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-48-4	Cobalt	1700	ug/Kg		154	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-50-8	Copper	3810	ug/Kg		287	956	956	1	P	HSC	02/09/10 08:01	020910-1	950667
7439-89-6	Iron	9780000	ug/Kg		8210	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-92-1	Lead	7660	ug/Kg		257	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-95-4	Magnesium	1090000	ug/Kg		8720	30800	30800	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-96-5	Manganese	204000	ug/Kg		205	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795
7439-97-6	Mercury	20.9	ug/kg		3.68	10.8	10.8	1	AV	JXL1	01/28/10 13:21	012810S1-8	943309
7440-02-0	Nickel	6.14	mg/kg		0.104	0.417	0.417	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-09-7	Potassium	799000	ug/Kg	*	6570	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7782-49-2	Selenium	1.04	mg/kg	UN	0.521	1.04	1.04	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-22-4	Silver	441	ug/Kg	J	103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-23-5	Sodium	92200	ug/Kg		7180	25700	25700	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-28-0	Thallium	0.0872	mg/kg	JN	0.0626	0.209	0.209	2	MS	RMJ	01/30/10 19:04	100129-4	941798
7440-61-1	Uranium	0.697	mg/kg		0.0135	0.0409	0.0409	2	MS	SKJ	02/09/10 12:20	100209-3	950023
7440-62-2	Vanadium	12300	ug/Kg		103	513	513	1	P	HSC	01/30/10 00:56	012910-2	941795
7440-66-6	Zinc	22200	ug/Kg	*	339	1030	1030	1	P	HSC	01/30/10 00:56	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.516	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.508	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.587	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.518	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.554	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628009

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7271

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4910000	ug/Kg	*	7360	21600	21600	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-36-0	Antimony	458	ug/Kg	J	357	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-38-2	Arsenic	1.13	mg/kg		0.211	1.06	1.06	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-39-3	Barium	31900	ug/Kg		108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-41-7	Beryllium	1.17	mg/kg	N	0.0211	0.106	0.106	2	MS	RMJ	02/06/10 22:12	100206-5	941798
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-70-2	Calcium	1290000	ug/Kg		8660	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-47-3	Chromium	12600	ug/Kg		162	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-48-4	Cobalt	1100	ug/Kg		162	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-50-8	Copper	5070	ug/Kg		277	925	925	1	P	HSC	02/09/10 08:04	020910-1	950667
7439-89-6	Iron	9480000	ug/Kg		8660	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-92-1	Lead	7600	ug/Kg		270	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-95-4	Magnesium	938000	ug/Kg		9200	32500	32500	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-96-5	Manganese	225000	ug/Kg		216	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795
7439-97-6	Mercury	16.9	ug/kg		3.97	11.7	11.7	1	AV	JXL1	01/28/10 13:23	012810S1-8	943309
7440-02-0	Nickel	3.27	mg/kg		0.106	0.423	0.423	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-09-7	Potassium	622000	ug/Kg	*	6920	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7782-49-2	Selenium	1.06	mg/kg	UN	0.528	1.06	1.06	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-22-4	Silver	433	ug/Kg	J	108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-23-5	Sodium	64400	ug/Kg		7570	27000	27000	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-28-0	Thallium	0.211	mg/kg	UN	0.0634	0.211	0.211	2	MS	RMJ	01/30/10 19:10	100129-4	941798
7440-61-1	Uranium	1.01	mg/kg		0.0143	0.0433	0.0433	2	MS	SKJ	02/09/10 12:23	100209-3	950023
7440-62-2	Vanadium	8390	ug/Kg		108	541	541	1	P	HSC	01/30/10 01:03	012910-2	941795
7440-66-6	Zinc	41800	ug/Kg	*	357	1080	1080	1	P	HSC	01/30/10 01:03	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.512	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.556	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.585	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628010

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7260

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 80

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9390000	ug/Kg	*	8370	24600	24600	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-36-0	Antimony	414	ug/Kg	J	406	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-38-2	Arsenic	2.27	mg/kg		0.25	1.25	1.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-39-3	Barium	118000	ug/Kg		123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-41-7	Beryllium	1.45	mg/kg	N	0.025	0.125	0.125	2	MS	RMJ	02/06/10 22:14	100206-5	941798
7440-43-9	Cadmium	213	ug/Kg	J	123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-70-2	Calcium	5100000	ug/Kg		9850	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-47-3	Chromium	15100	ug/Kg		185	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-48-4	Cobalt	3390	ug/Kg		185	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-50-8	Copper	8690	ug/Kg		359	1200	1200	1	P	HSC	02/09/10 08:15	020910-1	950667
7439-89-6	Iron	11900000	ug/Kg		9850	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-92-1	Lead	16100	ug/Kg		308	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-95-4	Magnesium	1810000	ug/Kg		10500	36900	36900	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-96-5	Manganese	328000	ug/Kg		246	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795
7439-97-6	Mercury	30.6	ug/kg		4.54	13.3	13.3	1	AV	JXL1	01/28/10 13:24	012810S1-8	943309
7440-02-0	Nickel	5.98	mg/kg		0.125	0.499	0.499	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-09-7	Potassium	1530000	ug/Kg	*	7880	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7782-49-2	Selenium	1.25	mg/kg	UN	0.624	1.25	1.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-22-4	Silver	487	ug/Kg	J	123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-23-5	Sodium	70600	ug/Kg		8620	30800	30800	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-28-0	Thallium	0.125	mg/kg	JN	0.0749	0.25	0.25	2	MS	RMJ	01/30/10 19:16	100129-4	941798
7440-61-1	Uranium	6.34	mg/kg		0.0155	0.0468	0.0468	2	MS	SKJ	02/09/10 12:25	100209-3	950023
7440-62-2	Vanadium	19200	ug/Kg		123	615	615	1	P	HSC	01/30/10 01:25	012910-2	941795
7440-66-6	Zinc	38700	ug/Kg	*	406	1230	1230	1	P	HSC	01/30/10 01:25	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.507	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.561	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.533	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.522	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628011

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7267

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 92.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2280000	ug/Kg	*	7070	20800	20800	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-36-0	Antimony	1040	ug/Kg	U	343	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-38-2	Arsenic	0.892	mg/kg	J	0.214	1.07	1.07	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-39-3	Barium	26500	ug/Kg		104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-41-7	Beryllium	0.679	mg/kg	N	0.0214	0.107	0.107	2	MS	RMJ	02/06/10 22:17	100206-5	941798
7440-43-9	Cadmium	520	ug/Kg	U	104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-70-2	Calcium	686000	ug/Kg		8310	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-47-3	Chromium	4600	ug/Kg		156	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-48-4	Cobalt	1050	ug/Kg		156	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-50-8	Copper	2600	ug/Kg		293	977	977	1	P	HSC	02/09/10 08:19	020910-1	950667
7439-89-6	Iron	9160000	ug/Kg		8310	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-92-1	Lead	5300	ug/Kg		260	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-95-4	Magnesium	438000	ug/Kg		8830	31200	31200	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-96-5	Manganese	257000	ug/Kg		208	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795
7439-97-6	Mercury	4.97	ug/kg	J	3.84	11.3	11.3	1	AV	JXL1	01/28/10 13:26	012810S1-8	943309
7440-02-0	Nickel	1.68	mg/kg		0.107	0.428	0.428	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-09-7	Potassium	406000	ug/Kg	*	6650	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7782-49-2	Selenium	1.07	mg/kg	UN	0.535	1.07	1.07	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-22-4	Silver	359	ug/Kg	J	104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-23-5	Sodium	55000	ug/Kg		7270	26000	26000	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-28-0	Thallium	0.214	mg/kg	UN	0.0642	0.214	0.214	2	MS	RMJ	01/30/10 19:22	100129-4	941798
7440-61-1	Uranium	0.678	mg/kg		0.0142	0.0431	0.0431	2	MS	SKJ	02/09/10 12:27	100209-3	950023
7440-62-2	Vanadium	7000	ug/Kg		104	520	520	1	P	HSC	01/30/10 01:32	012910-2	941795
7440-66-6	Zinc	43200	ug/Kg	*	343	1040	1040	1	P	HSC	01/30/10 01:32	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.518	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.503	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.572	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.551	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628012

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7264

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2050000	ug/Kg	*	7510	22100	22100	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-36-0	Antimony	1100	ug/Kg	U	364	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-38-2	Arsenic	0.796	mg/kg	J	0.224	1.12	1.12	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-39-3	Barium	36700	ug/Kg		110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-41-7	Beryllium	0.784	mg/kg	N	0.0224	0.112	0.112	2	MS	RMJ	02/09/10 04:26	100208-7	941798
7440-43-9	Cadmium	118	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-70-2	Calcium	1660000	ug/Kg		8830	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-47-3	Chromium	1980	ug/Kg		166	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-48-4	Cobalt	946	ug/Kg		166	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-50-8	Copper	2720	ug/Kg		325	1080	1080	1	P	HSC	02/09/10 08:23	020910-1	950667
7439-89-6	Iron	7390000	ug/Kg		8830	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-92-1	Lead	8630	ug/Kg		276	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-95-4	Magnesium	519000	ug/Kg		9380	33100	33100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-96-5	Manganese	394000	ug/Kg		221	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795
7439-97-6	Mercury	9.11	ug/kg	J	3.92	11.5	11.5	1	AV	JXL1	01/28/10 13:28	012810S1-8	943309
7440-02-0	Nickel	1.55	mg/kg		0.112	0.448	0.448	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-09-7	Potassium	499000	ug/Kg	*	7070	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7782-49-2	Selenium	1.12	mg/kg	UN	0.56	1.12	1.12	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-22-4	Silver	309	ug/Kg	J	110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-23-5	Sodium	70000	ug/Kg		7730	27600	27600	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-28-0	Thallium	0.224	mg/kg	UN	0.0672	0.224	0.224	2	MS	RMJ	01/30/10 19:28	100129-4	941798
7440-61-1	Uranium	2.08	mg/kg		0.0148	0.045	0.045	2	MS	SKJ	02/09/10 12:34	100209-3	950023
7440-62-2	Vanadium	4740	ug/Kg		110	552	552	1	P	HSC	01/30/10 01:39	012910-2	941795
7440-66-6	Zinc	45800	ug/Kg	*	364	1100	1100	1	P	HSC	01/30/10 01:39	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.509	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.502	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.585	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.5	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.518	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628013

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7270

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3160000	ug/Kg	*	7770	22900	22900	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-38-2	Arsenic	1.07	mg/kg	J	0.229	1.14	1.14	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-39-3	Barium	42700	ug/Kg		114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-41-7	Beryllium	0.744	mg/kg	N	0.0229	0.114	0.114	2	MS	RMJ	02/09/10 04:29	100208-7	941798
7440-43-9	Cadmium	133	ug/Kg	J	114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-70-2	Calcium	976000	ug/Kg		9140	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-47-3	Chromium	9060	ug/Kg		171	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-48-4	Cobalt	1360	ug/Kg		171	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-50-8	Copper	4460	ug/Kg		298	994	994	1	P	HSC	02/09/10 08:26	020910-1	950667
7439-89-6	Iron	8200000	ug/Kg		9140	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-92-1	Lead	9130	ug/Kg		286	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-95-4	Magnesium	599000	ug/Kg		9710	34300	34300	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-96-5	Manganese	301000	ug/Kg		229	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795
7439-97-6	Mercury	8.19	ug/kg	J	4.28	12.6	12.6	1	AV	JXL1	01/28/10 13:29	012810S1-8	943309
7440-02-0	Nickel	2.58	mg/kg		0.114	0.457	0.457	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-09-7	Potassium	553000	ug/Kg	*	7310	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7782-49-2	Selenium	1.14	mg/kg	UN	0.571	1.14	1.14	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-22-4	Silver	358	ug/Kg	J	114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-23-5	Sodium	53200	ug/Kg		8000	28600	28600	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-28-0	Thallium	0.229	mg/kg	UN	0.0686	0.229	0.229	2	MS	RMJ	01/30/10 19:33	100129-4	941798
7440-61-1	Uranium	4.76	mg/kg		0.0136	0.0412	0.0412	2	MS	SKJ	02/09/10 12:36	100209-3	950023
7440-62-2	Vanadium	7040	ug/Kg		114	571	571	1	P	HSC	01/30/10 01:46	012910-2	941795
7440-66-6	Zinc	38300	ug/Kg	*	377	1140	1140	1	P	HSC	01/30/10 01:46	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.544	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.554	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.575	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628014

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7269

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 94

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1840000	ug/Kg	*	7230	21300	21300	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-36-0	Antimony	1060	ug/Kg	U	351	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-38-2	Arsenic	1.07	mg/kg		0.203	1.01	1.01	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-39-3	Barium	16200	ug/Kg		106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-41-7	Beryllium	1.19	mg/kg	N	0.0203	0.101	0.101	2	MS	RMJ	02/09/10 04:37	100208-7	941798
7440-43-9	Cadmium	532	ug/Kg	U	106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-70-2	Calcium	346000	ug/Kg		8510	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-47-3	Chromium	7370	ug/Kg		160	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-48-4	Cobalt	410	ug/Kg	J	160	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-50-8	Copper	3100	ug/Kg		317	1060	1060	1	P	HSC	02/09/10 08:30	020910-1	950667
7439-89-6	Iron	8080000	ug/Kg		8510	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-92-1	Lead	5910	ug/Kg		266	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-95-4	Magnesium	337000	ug/Kg		9040	31900	31900	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-96-5	Manganese	326000	ug/Kg		213	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795
7439-97-6	Mercury	12.5	ug/kg	U	4.26	12.5	12.5	1	AV	JXL1	01/28/10 13:31	012810S1-8	943309
7440-02-0	Nickel	1.53	mg/kg		0.101	0.405	0.405	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-09-7	Potassium	291000	ug/Kg	*	6810	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7782-49-2	Selenium	1.01	mg/kg	UN	0.507	1.01	1.01	2	MS	RMJ	01/30/10 19:51	100129-4	941798
7440-22-4	Silver	393	ug/Kg	J	106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-23-5	Sodium	89900	ug/Kg		7450	26600	26600	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-28-0	Thallium	0.203	mg/kg	UN	0.0608	0.203	0.203	2	MS	RMJ	02/06/10 23:56	100206-6	941798
7440-61-1	Uranium	0.628	mg/kg		0.0128	0.0389	0.0389	2	MS	SKJ	02/09/10 12:38	100209-3	950023
7440-62-2	Vanadium	3210	ug/Kg		106	532	532	1	P	HSC	01/30/10 01:53	012910-2	941795
7440-66-6	Zinc	44900	ug/Kg	*	351	1060	1060	1	P	HSC	01/30/10 01:53	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.525	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.509	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.547	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.504	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628015

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7283

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9870000	ug/Kg	*	8090	23800	23800	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-36-0	Antimony	527	ug/Kg	J	392	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-38-2	Arsenic	2.13	mg/kg		0.237	1.18	1.18	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-39-3	Barium	107000	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-41-7	Beryllium	1.22	mg/kg	N	0.0237	0.118	0.118	2	MS	RMJ	02/09/10 04:40	100208-7	941798
7440-43-9	Cadmium	120	ug/Kg	J	119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-70-2	Calcium	3720000	ug/Kg		9510	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-47-3	Chromium	17400	ug/Kg		178	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-48-4	Cobalt	3910	ug/Kg		178	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-50-8	Copper	7700	ug/Kg		338	1130	1130	1	P	HSC	02/09/10 08:34	020910-1	950667
7439-89-6	Iron	13500000	ug/Kg		9510	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-92-1	Lead	15300	ug/Kg		297	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-95-4	Magnesium	1770000	ug/Kg		10100	35700	35700	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-96-5	Manganese	415000	ug/Kg		238	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795
7439-97-6	Mercury	26.7	ug/kg		4.27	12.6	12.6	1	AV	JXL1	01/28/10 13:36	012810S1-8	943309
7440-02-0	Nickel	5.84	mg/kg		0.118	0.474	0.474	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-09-7	Potassium	1460000	ug/Kg	*	7610	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7782-49-2	Selenium	1.18	mg/kg	UN	0.592	1.18	1.18	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-22-4	Silver	651	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-23-5	Sodium	82400	ug/Kg		8320	29700	29700	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-28-0	Thallium	0.124	mg/kg	JN	0.0711	0.237	0.237	2	MS	RMJ	01/30/10 19:57	100129-4	941798
7440-61-1	Uranium	6.15	mg/kg		0.015	0.0455	0.0455	2	MS	SKJ	02/09/10 12:41	100209-3	950023
7440-62-2	Vanadium	19800	ug/Kg		119	595	595	1	P	HSC	01/30/10 02:01	012910-2	941795
7440-66-6	Zinc	38400	ug/Kg	*	392	1190	1190	1	P	HSC	01/30/10 02:01	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.514	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.516	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.584	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.537	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.542	g	50	mL	02/08/10	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1226

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 244628016

BASIS: Dry Weight

DATE COLLECTED 08-JAN-10

CLIENT ID: RE12-10-7282

LEVEL: Low

DATE RECEIVED 13-JAN-10

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1790000	ug/Kg	*	7250	21300	21300	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-38-2	Arsenic	0.457	mg/kg	J	0.211	1.06	1.06	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-39-3	Barium	12500	ug/Kg		107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-41-7	Beryllium	0.795	mg/kg	N	0.0211	0.106	0.106	2	MS	RMJ	02/09/10 04:44	100208-7	941798
7440-43-9	Cadmium	533	ug/Kg	U	107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-70-2	Calcium	404000	ug/Kg		8530	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-47-3	Chromium	3270	ug/Kg		160	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-48-4	Cobalt	456	ug/Kg	J	160	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-50-8	Copper	2350	ug/Kg		292	974	974	1	P	HSC	02/09/10 08:37	020910-1	950667
7439-89-6	Iron	8180000	ug/Kg		8530	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-92-1	Lead	8660	ug/Kg		267	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-95-4	Magnesium	300000	ug/Kg		9060	32000	32000	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-96-5	Manganese	335000	ug/Kg		213	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795
7439-97-6	Mercury	12.7	ug/kg	U	4.32	12.7	12.7	1	AV	JXL1	01/28/10 13:38	012810S1-8	943309
7440-02-0	Nickel	0.913	mg/kg		0.106	0.422	0.422	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-09-7	Potassium	278000	ug/Kg	*	6820	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7782-49-2	Selenium	1.06	mg/kg	UN	0.528	1.06	1.06	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-22-4	Silver	353	ug/Kg	J	107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-23-5	Sodium	211000	ug/Kg		7460	26700	26700	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-28-0	Thallium	0.211	mg/kg	UN	0.0633	0.211	0.211	2	MS	RMJ	01/30/10 20:03	100129-4	941798
7440-61-1	Uranium	0.547	mg/kg		0.0129	0.0391	0.0391	2	MS	SKJ	02/09/10 12:43	100209-3	950023
7440-62-2	Vanadium	3280	ug/Kg		107	533	533	1	P	HSC	01/30/10 02:08	012910-2	941795
7440-66-6	Zinc	50000	ug/Kg	*	352	1070	1070	1	P	HSC	01/30/10 02:08	012910-2	941795

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
941795	941792	SW846 3050B	0.5	g	50	mL	01/20/10	BXA1
941798	941796	SW846 3050B	0.505	g	50	mL	01/20/10	BXA1
943309	943308	SW846 7471A Prep	0.503	g	30	mL	01/27/10	TXB3
950023	950022	SW846 3050B	0.546	g	50	mL	02/08/10	BXA1
950667	950666	SW846 3050B	0.547	g	50	mL	02/08/10	BXA1

Quality Control Summary

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.1	ug/L	5	ug/L	101.9	90.0 - 110.0	AV	28-JAN-10 09:05	012810S1-8
	Aluminum	4790	ug/L	5000	ug/L	95.7	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Antimony	515	ug/L	500	ug/L	103	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Barium	512	ug/L	500	ug/L	102.3	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Cadmium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Calcium	4850	ug/L	5000	ug/L	97	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Chromium	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Cobalt	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Lead	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Manganese	515	ug/L	500	ug/L	103	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Potassium	2410	ug/L	2500	ug/L	96.5	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Silver	261	ug/L	250	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Sodium	2600	ug/L	2500	ug/L	103.9	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Vanadium	515	ug/L	500	ug/L	103	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Zinc	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	29-JAN-10 18:02	012910-2
	Arsenic	47.3	ug/L	50	ug/L	94.6	90.0 - 110.0	MS	30-JAN-10 16:42	100129-4
	Nickel	51.9	ug/L	50	ug/L	103.9	90.0 - 110.0	MS	30-JAN-10 16:42	100129-4
	Selenium	49.3	ug/L	50	ug/L	98.6	90.0 - 110.0	MS	30-JAN-10 16:42	100129-4
	Thallium	48.4	ug/L	50	ug/L	96.7	90.0 - 110.0	MS	30-JAN-10 16:42	100129-4
	Beryllium	49	ug/L	50	ug/L	98	90.0 - 110.0	MS	06-FEB-10 21:04	100206-5
	Thallium	49.7	ug/L	50	ug/L	99.4	90.0 - 110.0	MS	06-FEB-10 23:21	100206-6
	Beryllium	52.1	ug/L	50	ug/L	104.1	90.0 - 110.0	MS	09-FEB-10 03:55	100208-7
	Copper	511	ug/L	500	ug/L	102.1	90.0 - 110.0	P	09-FEB-10 06:20	020910-1
	Uranium	52.5	ug/L	50	ug/L	104.9	90.0 - 110.0	MS	09-FEB-10 11:32	100209-3
CCV01										
	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 - 120.0	AV	28-JAN-10 09:10	012810S1-8
	Aluminum	4840	ug/L	5000	ug/L	96.9	90.0 - 110.0	P	29-JAN-10 18:48	012910-2
	Antimony	532	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 18:48	012910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Cadmium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Calcium	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Chromium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Cobalt	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Magnesium	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Manganese	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Vanadium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Zinc	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-JAN-10 18:48	012910-2
	Arsenic	48.1	ug/L	50	ug/L	96.2	90.0 – 110.0	MS	30-JAN-10 17:12	100129-4
	Nickel	49.3	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	30-JAN-10 17:12	100129-4
	Selenium	50.6	ug/L	50	ug/L	101.1	90.0 – 110.0	MS	30-JAN-10 17:12	100129-4
	Thallium	47.5	ug/L	50	ug/L	94.9	90.0 – 110.0	MS	30-JAN-10 17:12	100129-4
	Beryllium	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	06-FEB-10 21:18	100206-5
	Thallium	49	ug/L	50	ug/L	98.1	90.0 – 110.0	MS	06-FEB-10 23:46	100206-6
	Beryllium	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	09-FEB-10 04:09	100208-7
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	09-FEB-10 06:44	020910-1
	Uranium	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	09-FEB-10 11:43	100209-3
CCV02	Mercury	5.01	ug/L	5	ug/L	100.2	80.0 – 120.0	AV	28-JAN-10 09:30	012810S1-8
	Aluminum	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 19:09	012910-2
	Antimony	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 19:09	012910-2
	Barium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 19:09	012910-2
	Cadmium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	29-JAN-10 19:09	012910-2
	Calcium	5370	ug/L	5000	ug/L	107.5	90.0 – 110.0	P	29-JAN-10 19:09	012910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Cobalt	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Iron	5500	ug/L	5000	ug/L	110	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Lead	505	ug/L	500	ug/L	101	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Magnesium	5560	ug/L	5000	ug/L	111.3	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Manganese	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Potassium	5390	ug/L	5000	ug/L	107.9	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Silver	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Sodium	10600	ug/L	10000	ug/L	105.9	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Zinc	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	29-JAN-10 19:09	012910-2
	Arsenic	47.4	ug/L	50	ug/L	94.8	90.0 - 110.0	MS	30-JAN-10 17:35	100129-4
	Nickel	49.5	ug/L	50	ug/L	99	90.0 - 110.0	MS	30-JAN-10 17:35	100129-4
	Selenium	50.2	ug/L	50	ug/L	100.4	90.0 - 110.0	MS	30-JAN-10 17:35	100129-4
	Thallium	47	ug/L	50	ug/L	94	90.0 - 110.0	MS	30-JAN-10 17:35	100129-4
	Beryllium	49.6	ug/L	50	ug/L	99.3	90.0 - 110.0	MS	06-FEB-10 21:29	100206-5
	Thallium	48.5	ug/L	50	ug/L	97.1	90.0 - 110.0	MS	06-FEB-10 23:59	100206-6
	Beryllium	46.9	ug/L	50	ug/L	93.8	90.0 - 110.0	MS	09-FEB-10 04:17	100208-7
	Copper	486	ug/L	500	ug/L	97.3	90.0 - 110.0	P	09-FEB-10 06:59	020910-1
	Uranium	51.9	ug/L	50	ug/L	103.8	90.0 - 110.0	MS	09-FEB-10 12:07	100209-3
CCV03										
	Mercury	5.11	ug/L	5	ug/L	102.2	80.0 - 120.0	AV	28-JAN-10 09:50	012810S1-8
	Aluminum	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Antimony	521	ug/L	500	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Barium	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Cadmium	510	ug/L	500	ug/L	102	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Calcium	4950	ug/L	5000	ug/L	99	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Chromium	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 20:21	012910-2
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 20:21	012910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Manganese	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Potassium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Silver	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Sodium	10500	ug/L	10000	ug/L	104.5	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Zinc	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-JAN-10 20:21	012910-2
	Arsenic	48.1	ug/L	50	ug/L	96.2	90.0 – 110.0	MS	30-JAN-10 18:40	100129-4
	Nickel	48.7	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	30-JAN-10 18:40	100129-4
	Selenium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	30-JAN-10 18:40	100129-4
	Thallium	47	ug/L	50	ug/L	94	90.0 – 110.0	MS	30-JAN-10 18:40	100129-4
	Beryllium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	06-FEB-10 21:55	100206-5
	Beryllium	47.6	ug/L	50	ug/L	95.2	90.0 – 110.0	MS	09-FEB-10 04:32	100208-7
	Copper	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	09-FEB-10 07:31	020910-1
	Uranium	51.7	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	09-FEB-10 12:29	100209-3
CCV04	Mercury	5.17	ug/L	5	ug/L	103.5	80.0 – 120.0	AV	28-JAN-10 10:10	012810S1-8
	Aluminum	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Antimony	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Barium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Cadmium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Calcium	5100	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Chromium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Iron	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Lead	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Magnesium	5290	ug/L	5000	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Manganese	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Potassium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 21:39	012910-2

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Silver	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Vanadium	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Zinc	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 21:39	012910-2
	Arsenic	47.7	ug/L	50	ug/L	95.3	90.0 – 110.0	MS	30-JAN-10 19:39	100129-4
	Nickel	49	ug/L	50	ug/L	97.9	90.0 – 110.0	MS	30-JAN-10 19:39	100129-4
	Selenium	49.1	ug/L	50	ug/L	98.3	90.0 – 110.0	MS	30-JAN-10 19:39	100129-4
	Thallium	46.4	ug/L	50	ug/L	92.8	90.0 – 110.0	MS	30-JAN-10 19:39	100129-4
	Beryllium	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	06-FEB-10 22:20	100206-5
	Beryllium	47.7	ug/L	50	ug/L	95.4	90.0 – 110.0	MS	09-FEB-10 04:47	100208-7
	Copper	472	ug/L	500	ug/L	94.4	90.0 – 110.0	P	09-FEB-10 08:08	020910-1
	Uranium	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	09-FEB-10 12:45	100209-3
CCV05										
	Mercury	5.17	ug/L	5	ug/L	103.5	80.0 – 120.0	AV	28-JAN-10 10:30	012810S1-8
	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Antimony	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Barium	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Cadmium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Calcium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Chromium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Iron	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Lead	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Magnesium	5190	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Manganese	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Potassium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Silver	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Sodium	10500	ug/L	10000	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Vanadium	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 22:57	012910-2
	Zinc	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 22:57	012910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Arsenic	46.8	ug/L	50	ug/L	93.7	90.0 - 110.0	MS	30-JAN-10 20:09	100129-4
	Nickel	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	30-JAN-10 20:09	100129-4
	Selenium	48.6	ug/L	50	ug/L	97.2	90.0 - 110.0	MS	30-JAN-10 20:09	100129-4
	Thallium	45.7	ug/L	50	ug/L	91.4	90.0 - 110.0	MS	30-JAN-10 20:09	100129-4
	Copper	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	09-FEB-10 08:41	020910-1
CCV06										
	Mercury	5.08	ug/L	5	ug/L	101.6	80.0 - 120.0	AV	28-JAN-10 10:50	012810S1-8
	Aluminum	4930	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Antimony	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Barium	520	ug/L	500	ug/L	104	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Cadmium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Calcium	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Chromium	520	ug/L	500	ug/L	103.9	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Cobalt	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Lead	515	ug/L	500	ug/L	103	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Magnesium	5260	ug/L	5000	ug/L	105.1	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Manganese	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Silver	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Vanadium	525	ug/L	500	ug/L	104.9	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
	Zinc	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	30-JAN-10 00:00	012910-2
CCV07										
	Mercury	5.05	ug/L	5	ug/L	100.9	80.0 - 120.0	AV	28-JAN-10 11:10	012810S1-8
	Aluminum	4930	ug/L	5000	ug/L	98.7	90.0 - 110.0	P	30-JAN-10 01:10	012910-2
	Antimony	532	ug/L	500	ug/L	106.3	90.0 - 110.0	P	30-JAN-10 01:10	012910-2
	Barium	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	30-JAN-10 01:10	012910-2
	Cadmium	520	ug/L	500	ug/L	104.1	90.0 - 110.0	P	30-JAN-10 01:10	012910-2
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 - 110.0	P	30-JAN-10 01:10	012910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Cobalt	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Iron	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Lead	515	ug/L	500	ug/L	103	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Magnesium	5250	ug/L	5000	ug/L	105.1	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Manganese	520	ug/L	500	ug/L	104	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Potassium	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Silver	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Vanadium	525	ug/L	500	ug/L	104.9	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
	Zinc	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	30-JAN-10 01:10	012910-2
CCV08	Mercury	4.99	ug/L	5	ug/L	99.9	80.0 – 120.0	AV	28-JAN-10 11:30	012810S1-8
	Aluminum	4850	ug/L	5000	ug/L	96.9	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Antimony	529	ug/L	500	ug/L	105.9	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Barium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Cadmium	518	ug/L	500	ug/L	103.7	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Chromium	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Cobalt	520	ug/L	500	ug/L	104.1	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Iron	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Lead	515	ug/L	500	ug/L	103	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Manganese	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Potassium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Silver	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Sodium	10100	ug/L	10000	ug/L	101.2	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Vanadium	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	30-JAN-10 02:15	012910-2
	Zinc	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	30-JAN-10 02:15	012910-2

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV09	Mercury	5.02	ug/L	5	ug/L	100.4	80.0 - 120.0	AV	28-JAN-10 11:51	012810S1-8
CCV10	Mercury	5	ug/L	5	ug/L	100	80.0 - 120.0	AV	28-JAN-10 12:11	012810S1-8
CCV11	Mercury	4.99	ug/L	5	ug/L	99.8	80.0 - 120.0	AV	28-JAN-10 12:31	012810S1-8
CCV12	Mercury	5	ug/L	5	ug/L	100	80.0 - 120.0	AV	28-JAN-10 12:52	012810S1-8
CCV13	Mercury	5.09	ug/L	5	ug/L	101.9	80.0 - 120.0	AV	28-JAN-10 13:12	012810S1-8
CCV14	Mercury	5.18	ug/L	5	ug/L	103.6	80.0 - 120.0	AV	28-JAN-10 13:33	012810S1-8
CCV15	Mercury	5.18	ug/L	5	ug/L	103.6	80.0 - 120.0	AV	28-JAN-10 13:40	012810S1-8

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS4,ICPMS6,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.159	ug/L	.2	ug/L	79.5	70.0 - 130.0	AV	28-JAN-10 09:08	012810S1-8
	Nickel	2.42	ug/L	2	ug/L	120.9	70.0 - 130.0	MS	30-JAN-10 16:54	100129-4
	Thallium	1.13	ug/L	1	ug/L	113.1	70.0 - 130.0	MS	30-JAN-10 16:54	100129-4
	Selenium	5.17	ug/L	5	ug/L	103.4	70.0 - 130.0	MS	30-JAN-10 16:54	100129-4
	Arsenic	5.09	ug/L	5	ug/L	101.9	70.0 - 130.0	MS	30-JAN-10 16:54	100129-4
	Beryllium	.484	ug/L	.5	ug/L	96.8	70.0 - 130.0	MS	06-FEB-10 21:10	100206-5
	Thallium	1.04	ug/L	1	ug/L	103.8	70.0 - 130.0	MS	06-FEB-10 23:31	100206-6
	Beryllium	.494	ug/L	.5	ug/L	98.8	70.0 - 130.0	MS	09-FEB-10 04:01	100208-7
	Uranium	.245	ug/L	.2	ug/L	122.5	70.0 - 130.0	MS	09-FEB-10 11:36	100209-3
PQL01										
	Aluminum	206	ug/L	200	ug/L	102.8	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Iron	101	ug/L	100	ug/L	100.6	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Lead	10.9	ug/L	10	ug/L	108.5	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Magnesium	384	ug/L	300	ug/L	127.8	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Manganese	10.8	ug/L	10	ug/L	107.5	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Potassium	125	ug/L	150	ug/L	83.1	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Silver	5.5	ug/L	5	ug/L	110	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Sodium	312	ug/L	300	ug/L	104.1	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Antimony	8.87	ug/L	10	ug/L	88.7	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Barium	5.31	ug/L	5	ug/L	106.2	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Cadmium	5.4	ug/L	5	ug/L	107.9	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Chromium	4.96	ug/L	5	ug/L	99.2	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Cobalt	5.16	ug/L	5	ug/L	103.2	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Vanadium	5.25	ug/L	5	ug/L	104.9	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Zinc	8.77	ug/L	10	ug/L	87.7	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Calcium	210	ug/L	200	ug/L	105.3	70.0 - 130.0	P	29-JAN-10 18:16	012910-2
	Copper	11.1	ug/L	10	ug/L	110.9	70.0 - 130.0	P	09-FEB-10 06:27	020910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
ICB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 09:06	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 18:09	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 18:09	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 18:09	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 18:09	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-JAN-10 18:09	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 18:09	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 18:09	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-JAN-10 18:09	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 18:09	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:09	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 18:09	012910-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 16:48	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 16:48	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 16:48	100129-4
	Thallium	0.413	+/-1	J	0.3	1.0	SOL	MS	30-JAN-10 16:48	100129-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-FEB-10 21:07	100206-5
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-FEB-10 23:26	100206-6
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	09-FEB-10 03:58	100208-7
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 06:24	020910-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-FEB-10 11:34	100209-3
CCB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 09:11	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 18:55	012910-2
	Antimony	9.66	+/-10	J	3.3	10.0	SOL	P	29-JAN-10 18:55	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:55	012910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:55	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 18:55	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 18:55	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 18:55	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 18:55	012910-2
	Lead	2.89	+/-10	J	2.5	10.0	SOL	P	29-JAN-10 18:55	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 18:55	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 18:55	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-JAN-10 18:55	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:55	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 18:55	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 18:55	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 18:55	012910-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 17:18	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 17:18	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 17:18	100129-4
	Thallium	0.368	+/-1	J	0.3	1.0	SOL	MS	30-JAN-10 17:18	100129-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-FEB-10 21:20	100206-5
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-FEB-10 23:51	100206-6
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	09-FEB-10 04:12	100208-7
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 06:48	020910-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-FEB-10 11:45	100209-3
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 09:31	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 19:16	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 19:16	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 19:16	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 19:16	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 19:16	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 19:16	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 19:16	012910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 19:16	012910-2
	Lead	3.67	+/-10	J	2.5	10.0	SOL	P	29-JAN-10 19:16	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 19:16	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 19:16	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-JAN-10 19:16	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 19:16	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 19:16	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 19:16	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 19:16	012910-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 17:41	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 17:41	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 17:41	100129-4
	Thallium	0.389	+/-1	J	0.3	1.0	SOL	MS	30-JAN-10 17:41	100129-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-FEB-10 21:31	100206-5
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	07-FEB-10 00:04	100206-6
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	09-FEB-10 04:20	100208-7
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 07:03	020910-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-FEB-10 12:09	100209-3
CCB03	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 09:52	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 20:28	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 20:28	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 20:28	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 20:28	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-JAN-10 20:28	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 20:28	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 20:28	012910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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	29-JAN-10 20:28	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 20:28	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 20:28	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 20:28	012910-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 18:46	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 18:46	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 18:46	100129-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	30-JAN-10 18:46	100129-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-FEB-10 21:58	100206-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	09-FEB-10 04:35	100208-7
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 07:35	020910-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-FEB-10 12:32	100209-3
CCB04	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 10:12	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 21:46	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 21:46	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 21:46	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 21:46	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-JAN-10 21:46	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 21:46	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 21:46	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-JAN-10 21:46	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 21:46	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 21:46	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 21:46	012910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 19:45	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 19:45	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 19:45	100129-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	30-JAN-10 19:45	100129-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-FEB-10 22:22	100206-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	09-FEB-10 04:49	100208-7
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 08:12	020910-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-FEB-10 12:47	100209-3
CCB05	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 10:32	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-JAN-10 23:04	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 23:04	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 23:04	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-JAN-10 23:04	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-JAN-10 23:04	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-JAN-10 23:04	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-JAN-10 23:04	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-JAN-10 23:04	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-JAN-10 23:04	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-JAN-10 23:04	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-JAN-10 23:04	012910-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	30-JAN-10 20:15	100129-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	30-JAN-10 20:15	100129-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	30-JAN-10 20:15	100129-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	30-JAN-10 20:15	100129-4
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	09-FEB-10 08:45	020910-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
CCB06	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 10:52	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-JAN-10 00:07	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 00:07	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 00:07	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 00:07	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-JAN-10 00:07	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-JAN-10 00:07	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-JAN-10 00:07	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-JAN-10 00:07	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-JAN-10 00:07	012910-2
	Vanadium	-1.21	+/-5	J	1.0	5.0	SOL	P	30-JAN-10 00:07	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 00:07	012910-2
CCB07	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 11:12	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-JAN-10 01:17	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 01:17	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 01:17	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 01:17	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-JAN-10 01:17	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-JAN-10 01:17	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-JAN-10 01:17	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-JAN-10 01:17	012910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-JAN-10 01:17	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 01:17	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 01:17	012910-2
CCB08	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 11:32	012810S1-8
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-JAN-10 02:22	012910-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 02:22	012910-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 02:22	012910-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-JAN-10 02:22	012910-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-JAN-10 02:22	012910-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-JAN-10 02:22	012910-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-JAN-10 02:22	012910-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-JAN-10 02:22	012910-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-JAN-10 02:22	012910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-JAN-10 02:22	012910-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-JAN-10 02:22	012910-2
CCB09	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 11:52	012810S1-8
CCB10	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 12:13	012810S1-8
CCB11	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 12:33	012810S1-8
CCB12	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	28-JAN-10 12:53	012810S1-8

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1226

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>
CCB13	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	28-JAN-10 13:14	012810S1-8
CCB14	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	28-JAN-10 13:34	012810S1-8
CCB15	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	28-JAN-10 13:41	012810S1-8

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1226
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>
1202015835	Aluminum	6680	ug/Kg	+/-19600	U	P	6680	19600
	Antimony	324	ug/Kg	+/-982	U	P	324	982
	Vanadium	98.2	ug/Kg	+/-491	U	P	98.2	491
	Zinc	324	ug/Kg	+/-982	U	P	324	982
	Cadmium	98.2	ug/Kg	+/-491	U	P	98.2	491
	Chromium	147	ug/Kg	+/-491	U	P	147	491
	Iron	7860	ug/Kg	+/-24600	U	P	7860	24600
	Magnesium	8350	ug/Kg	+/-29500	U	P	8350	29500
	Potassium	6290	ug/Kg	+/-24600	U	P	6290	24600
	Sodium	6880	ug/Kg	+/-24600	U	P	6880	24600
	Silver	98.2	ug/Kg	+/-491	U	P	98.2	491
	Manganese	196	ug/Kg	+/-982	U	P	196	982
	Lead	246	ug/Kg	+/-982	U	P	246	982
	Cobalt	147	ug/Kg	+/-491	U	P	147	491
	Calcium	7860	ug/Kg	+/-24600	U	P	7860	24600
	Barium	98.2	ug/Kg	+/-491	U	P	98.2	491
1202015846	Arsenic	0.2	mg/kg	+/-0.998	U	MS	0.2	0.998
	Beryllium	0.02	mg/kg	+/-0.0998	U	MS	0.02	0.0998
	Nickel	0.0998	mg/kg	+/-0.399	U	MS	0.0998	0.399
	Selenium	0.499	mg/kg	+/-0.998	U	MS	0.499	0.998
	Thallium	0.0599	mg/kg	+/-0.2	U	MS	0.0599	0.2
1202019757	Mercury	3.54	ug/kg	+/-10.4	U	AV	3.54	10.4
1202035553	Uranium	0.0128	mg/kg	+/-0.0387	U	MS	0.0128	0.0387
1202037290	Copper	290	ug/Kg	+/-965	U	P	290	965

METALS
-4-
Interference Check Sample

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Copper	-1.4	ug/L					09-FEB-10 06:31	020910-1
ICSAB01	Copper	535	ug/L	500	ug/L	107	80.0 - 120.0	09-FEB-10 06:34	020910-1

METALS
-4-
Interference Check Sample

SDG No: 10-1226

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	509000	ug/L	500000	ug/L	102	80.0 – 120.0	29-JAN-10 18:23	012910-2
	Antimony	4.1	ug/L					29-JAN-10 18:23	012910-2
	Barium	-0.057	ug/L					29-JAN-10 18:23	012910-2
	Cadmium	1.61	ug/L					29-JAN-10 18:23	012910-2
	Calcium	472000	ug/L	500000	ug/L	94.4	80.0 – 120.0	29-JAN-10 18:23	012910-2
	Chromium	0.462	ug/L					29-JAN-10 18:23	012910-2
	Cobalt	-1.5	ug/L					29-JAN-10 18:23	012910-2
	Iron	186000	ug/L	200000	ug/L	93.1	80.0 – 120.0	29-JAN-10 18:23	012910-2
	Lead	7.81	ug/L					29-JAN-10 18:23	012910-2
	Magnesium	488000	ug/L	500000	ug/L	97.6	80.0 – 120.0	29-JAN-10 18:23	012910-2
	Manganese	-2.09	ug/L					29-JAN-10 18:23	012910-2
	Potassium	-168.0	ug/L					29-JAN-10 18:23	012910-2
	Silver	1.19	ug/L					29-JAN-10 18:23	012910-2
	Sodium	84.8	ug/L					29-JAN-10 18:23	012910-2
	Vanadium	-0.091	ug/L					29-JAN-10 18:23	012910-2
	Zinc	8.82	ug/L					29-JAN-10 18:23	012910-2
ICSAB01									
	Aluminum	521000	ug/L	500000	ug/L	104	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Antimony	571	ug/L	500	ug/L	114	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Barium	501	ug/L	500	ug/L	100	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Cadmium	456	ug/L	500	ug/L	91.3	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Calcium	481000	ug/L	500000	ug/L	96.2	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Chromium	481	ug/L	500	ug/L	96.3	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Cobalt	452	ug/L	500	ug/L	90.4	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Iron	187000	ug/L	200000	ug/L	93.6	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Lead	478	ug/L	500	ug/L	95.6	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Magnesium	491000	ug/L	500000	ug/L	98.2	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Manganese	490	ug/L	500	ug/L	98	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Potassium	5370	ug/L	5000	ug/L	107	80.0 – 120.0	29-JAN-10 18:29	012910-2

METALS
-4-
Interference Check Sample

SDG No: 10-1226

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	275	ug/L	250	ug/L	110	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Sodium	5660	ug/L	5000	ug/L	113	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Vanadium	506	ug/L	500	ug/L	101	80.0 – 120.0	29-JAN-10 18:29	012910-2
	Zinc	506	ug/L	500	ug/L	101	80.0 – 120.0	29-JAN-10 18:29	012910-2

METALS

-4-

Interference Check Sample

SDG No: 10-1226

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	Uranium	0.004	ug/L					09-FEB-10 11:38	100209-3
ICSAB01	Uranium	20.6	ug/L	20	ug/L	103	80.0 - 120.0	09-FEB-10 11:41	100209-3

METALS
-4-
Interference Check Sample

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	0.142	ug/L					30-JAN-10 17:00	100129-4
	Nickel	3.46	ug/L					30-JAN-10 17:00	100129-4
	Selenium	-2.3	ug/L					30-JAN-10 17:00	100129-4
	Thallium	0.032	ug/L					30-JAN-10 17:00	100129-4
ICSAB01									
	Arsenic	20.7	ug/L	20	ug/L	103	80.0 - 120.0	30-JAN-10 17:06	100129-4
	Nickel	21.1	ug/L	23.31	ug/L	90.3	80.0 - 120.0	30-JAN-10 17:06	100129-4
	Selenium	18.9	ug/L	20	ug/L	94.6	80.0 - 120.0	30-JAN-10 17:06	100129-4
	Thallium	17.7	ug/L	20	ug/L	88.2	80.0 - 120.0	30-JAN-10 17:06	100129-4

METALS
-4-
Interference Check Sample

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.089	ug/L					06-FEB-10 21:12	100206-5
ICSAB01	Beryllium	20.6	ug/L	20	ug/L	103	80.0 - 120.0	06-FEB-10 21:15	100206-5

METALS
-4-
Interference Check Sample

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Thallium	0.01	ug/L					06-FEB-10 23:36	100206-6
ICSAB01	Thallium	19.5	ug/L	20	ug/L	97.3	80.0 - 120.0	06-FEB-10 23:41	100206-6

METALS
-4-
Interference Check Sample

SDG No: 10-1226

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.111	ug/L					09-FEB-10 04:03	100208-7
ICSAB01	Beryllium	21.8	ug/L	20	ug/L	109	80.0 - 120.0	09-FEB-10 04:06	100208-7

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1226

Client ID: RE12-10-7262S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 91.1

Sample ID: 244628001

Spike ID: 1202015838

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		8870000		6060000		538000	523	N/A	P
Antimony	ug/Kg	75-125	54400		364	J	53800	100		P
Barium	ug/Kg	75-125	99700		55200		53800	82.7		P
Cadmium	ug/Kg	75-125	52500		109	U	53800	97.5		P
Calcium	ug/Kg		2250000		2210000		538000	6.22	N/A	P
Chromium	ug/Kg	75-125	74500		22700		53800	96.2		P
Cobalt	ug/Kg	75-125	54200		2670		53800	95.9		P
Copper	ug/Kg	75-125	64300		2610		54900	112		P
Iron	ug/Kg		10000000		10900000		538000	-157	N/A	P
Lead	ug/Kg	75-125	60800		9150		53800	96		P
Magnesium	ug/Kg	75-125	1660000		1120000		538000	99		P
Manganese	ug/Kg		264000		265000		53800	-1.65	N/A	P
Potassium	ug/Kg	75-125	1470000		903000		538000	105		P
Silver	ug/Kg	75-125	54800		421	J	53800	101		P
Sodium	ug/Kg	75-125	623000		80200		538000	101		P
Vanadium	ug/Kg	75-125	66400		13800		53800	97.8		P
Zinc	ug/Kg	75-125	75500		28000		53800	88.3		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1226 Client ID RE12-10-7262SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91.1

Sample ID: 244628001 Spike ID: 1202015839

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		8990000		6060000		535000	548	N/A	P
Antimony	ug/Kg	75-125	52600		364	J	53500	97.7		P
Barium	ug/Kg	75-125	103000		55200		53500	89.1		P
Cadmium	ug/Kg	75-125	51400		109	U	53500	95.9		P
Calcium	ug/Kg		2620000		2210000		535000	76.4	N/A	P
Chromium	ug/Kg	75-125	71700		22700		53500	91.5		P
Cobalt	ug/Kg	75-125	53000		2670		53500	94.1		P
Copper	ug/Kg	75-125	56700		2610		47500	114		P
Iron	ug/Kg		9870000		10900000		535000	-189	N/A	P
Lead	ug/Kg	75-125	60200		9150		53500	95.4		P
Magnesium	ug/Kg	75-125	1690000		1120000		535000	107		P
Manganese	ug/Kg		261000		265000		53500	-5.96	N/A	P
Potassium	ug/Kg	75-125	1490000		903000		535000	110		P
Silver	ug/Kg	75-125	53500		421	J	53500	99.3		P
Sodium	ug/Kg	75-125	594000		80200		535000	96.1		P
Vanadium	ug/Kg	75-125	65100		13800		53500	95.9		P
Zinc	ug/Kg	75-125	74300		28000		53500	86.5		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1226

Client ID: RE12-10-7262S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 91.1

Sample ID: 244628001

Spike ID: 1202015849

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Arsenic	mg/kg	75-125	8.24		1.41		8.67	78.7		MS
Beryllium	mg/kg	75-125	7.48		0.728		5.42	124		MS
Nickel	mg/kg	75-125	8.28		3.76		5.42	83.4		MS
Selenium	mg/kg	75-125	1.55		0.544	U	2.17	70.1	N	MS
Thallium	mg/kg	75-125	8.14		0.0875	J	10.8	74.3	N	MS
Uranium	mg/kg	75-125	6.48		0.945		5.24	106		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1226 Client ID: RE12-10-7262SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91.1

Sample ID: 244628001 Spike ID: 1202015850

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.07		1.41		8.41	79.2		MS
Beryllium	mg/kg	75-125	7.54		0.728		5.25	130	N	MS
Nickel	mg/kg	75-125	7.98		3.76		5.25	80.4		MS
Selenium	mg/kg	75-125	1.53		0.544	U	2.1	71.4	N	MS
Thallium	mg/kg	75-125	8.14		0.0875	J	10.5	76.7		MS
Uranium	mg/kg	75-125	6.81		0.945		5.44	108		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1226

Client ID: RE12-10-7262S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 91.1

Sample ID: 244628001

Spike ID: 1202019760

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	129		12.7		114	102		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1226 Client ID RE12-10-7262SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91.1

Sample ID: 244628001 Spike ID: 1202019764

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	145		12.7		131	101		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262D

Sample ID: 244628001

Duplicate ID: 1202015836

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	6060000		4900000		21.1	*	P
Antimony	ug/Kg		364 J		348 U		200		P
Barium	ug/Kg	+/-20%	55200		49800		10.3		P
Cadmium	ug/Kg		109 U		106 U				P
Calcium	ug/Kg	+/-20%	2210000		2150000		2.93		P
Chromium	ug/Kg	+/-20%	22700		19000		17.8		P
Cobalt	ug/Kg	+/-528	2670		2410		10.3		P
Copper	ug/Kg	+/-1070	2610		2850		8.79		P
Iron	ug/Kg	+/-20%	10900000		9090000		18		P
Lead	ug/Kg	+/-20%	9150		7610		18.4		P
Magnesium	ug/Kg	+/-20%	1120000		955000		16.3		P
Manganese	ug/Kg	+/-20%	265000		223000		17		P
Potassium	ug/Kg	+/-20%	903000		733000		20.8	*	P
Silver	ug/Kg	+/-528	421 J		377 J		11		P
Sodium	ug/Kg	+/-26400	80200		69600		14.2		P
Vanadium	ug/Kg	+/-20%	13800		11600		17.4		P
Zinc	ug/Kg	+/-20%	28000		22600		21.3	*	P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262SD

Sample ID: 1202015838

Duplicate ID: 1202015839

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	8870000		8990000		1.32		P
Antimony	ug/Kg	+/-20	54400		52600		3.32		P
Barium	ug/Kg	+/-20	99700		103000		3.11		P
Cadmium	ug/Kg	+/-20	52500		51400		2.21		P
Calcium	ug/Kg	+/-20	2250000		2620000		15.4		P
Chromium	ug/Kg	+/-20	74500		71700		3.85		P
Cobalt	ug/Kg	+/-20	54200		53000		2.37		P
Copper	ug/Kg	+/-20	64300		56700		12.6		P
Iron	ug/Kg	+/-20	10000000		9870000		1.67		P
Lead	ug/Kg	+/-20	60800		60200		1.01		P
Magnesium	ug/Kg	+/-20	1660000		1690000		2.25		P
Manganese	ug/Kg	+/-20	264000		261000		.877		P
Potassium	ug/Kg	+/-20	1470000		1490000		1.34		P
Silver	ug/Kg	+/-20	54800		53500		2.24		P
Sodium	ug/Kg	+/-20	623000		594000		4.72		P
Vanadium	ug/Kg	+/-20	66400		65100		1.97		P
Zinc	ug/Kg	+/-20	75500		74300		1.65		P

Metals

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Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262D

Sample ID: 244628001

Duplicate ID: 1202015847

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.07	1.41		1.35		4.33		MS
Beryllium	mg/kg	+/-20%	0.728		0.65		11.3		MS
Nickel	mg/kg	+/-20%	3.76		3.6		4.25		MS
Selenium	mg/kg		0.544 U		0.533 U				MS
Thallium	mg/kg	+/- .213	0.0875 J		0.0716 J		20		MS
Uranium	mg/kg	+/-20%	0.945		0.99		4.73		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262SD

Sample ID: 1202015849

Duplicate ID: 1202015850

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	8.24		8.07		2.06		MS
Beryllium	mg/kg	+/-20	7.48		7.54		.87		MS
Nickel	mg/kg	+/-20	8.28		7.98		3.69		MS
Selenium	mg/kg	+/-20	1.55		1.53		1.32		MS
Thallium	mg/kg	+/-20	8.14		8.14		.0624		MS
Uranium	mg/kg	+/-20	6.48		6.81		4.96		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262D

Sample ID: 244628001

Duplicate ID: 1202019759

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-12.3	12.7		9.97 J		24.1		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1226

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE12-10-7262SD

Sample ID: 1202019760

Duplicate ID: 1202019764

Percent Solids for Dup: 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	129		145		11.9		AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1226

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>
1202015840								
	Aluminum	ug/Kg	10500000	10000000		95.3	56-144	P
	Antimony	ug/Kg	173000	192000		111	71-130	P
	Barium	ug/Kg	198000	208000		105	80-120	P
	Cadmium	ug/Kg	60700	63600		105	81-120	P
	Calcium	ug/Kg	9870000	10500000		106	83-117	P
	Chromium	ug/Kg	236000	264000		112	80-120	P
	Cobalt	ug/Kg	91200	100000		110	81-120	P
	Iron	ug/Kg	18000000	19200000		107	51-149	P
	Lead	ug/Kg	86000	85700		99.6	79-121	P
	Magnesium	ug/Kg	4000000	4160000		104	79-122	P
	Manganese	ug/Kg	558000	591000		106	81-119	P
	Potassium	ug/Kg	4300000	4500000		105	74-127	P
	Silver	ug/Kg	30100	34200		114	66-134	P
	Sodium	ug/Kg	1020000	1120000		110	74-127	P
	Vanadium	ug/Kg	115000	132000		115	79-121	P
	Zinc	ug/Kg	594000	633000		107	80-121	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1226

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>
1202015851								
	Arsenic	mg/kg	104	116		112	83-120	MS
	Beryllium	mg/kg	77.6	95		122	81.2-126.8	MS
	Nickel	mg/kg	134	162		121	83.3-121.4	MS
	Selenium	mg/kg	286	327		114	80.2-125.9	MS
	Thallium	mg/kg	121	132		109	78-123.2	MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1226

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>
1202019758	Mercury	ug/kg	5150	5370		104	71.6-128.3	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1226

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>
1202035554	Uranium	mg/kg	2.13	1.99		93.5	61.9-130.7	MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1226

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>
1202037291	Copper	ug/Kg	174000	202000		116	81-118	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1226

Client ID: RE12-10-7262L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 244628001

Serial Dilution ID: 1202015837

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	55600		52500		5.58		10	P
Antimony	3.34	J	16.5	U	100			P
Barium	507		505		.394		10	P
Cadmium	1	U	5	U				P
Calcium	20300		19900		2.22		10	P
Chromium	209		211		.718		10	P
Cobalt	24.5		25.2		2.86			P
Copper	27.7		34.5	J	24.5			P
Iron	100000		101000		1		10	P
Lead	84		89.5		6.55			P
Magnesium	10300		10400		.485		10	P
Manganese	2430		2480		2.06		10	P
Potassium	8290		7800		5.91		10	P
Silver	3.87	J	5	U	100			P
Sodium	737		545	J	26.1			P
Vanadium	127		125		1.97		10	P
Zinc	257		248		3.5		10	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1226

Client ID: RE12-10-7262L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 244628001

Serial Dilution ID: 1202015848

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	6.48		5.4	J	16.7			MS
Beryllium	3.34		3.26		2.54			MS
Nickel	17.3		20.4		17.6			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.402	J	2.27	J	463			MS
Uranium	4.66		4.82		3.33			MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1226

Client ID: RE12-10-7262L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 244628001

Serial Dilution ID: 1202019763

<u>Analyte</u>	<u>Initial Value ng/L</u>	<u>C</u>	<u>Serial Value ng/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.203		.34	U	100			AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

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 941792							
1202015835	MB for batch 941792	MB	S	20-JAN-10	.509g	50mL	
1202015840	LCS for batch 941792	LCS	S	20-JAN-10	.522g	50mL	
1202015838	RE12-10-7262S	MS	S	20-JAN-10	.51g	50mL	
1202015839	RE12-10-7262SD	MSD	S	20-JAN-10	.513g	50mL	
1202015836	RE12-10-7262D	DUP	S	20-JAN-10	.52g	50mL	
244628001	RE12-10-7262	SAMPLE	S	20-JAN-10	.504g	50mL	
244628002	RE12-10-7266	SAMPLE	S	20-JAN-10	.512g	50mL	
244628003	RE12-10-7258	SAMPLE	S	20-JAN-10	.505g	50mL	
244628004	RE12-10-7268	SAMPLE	S	20-JAN-10	.512g	50mL	
244628005	RE12-10-7265	SAMPLE	S	20-JAN-10	.511g	50mL	
244628006	RE12-10-7261	SAMPLE	S	20-JAN-10	.522g	50mL	
244628007	RE12-10-7259	SAMPLE	S	20-JAN-10	.508g	50mL	
244628008	RE12-10-7263	SAMPLE	S	20-JAN-10	.516g	50mL	
244628009	RE12-10-7271	SAMPLE	S	20-JAN-10	.5g	50mL	
244628010	RE12-10-7260	SAMPLE	S	20-JAN-10	.507g	50mL	
244628011	RE12-10-7267	SAMPLE	S	20-JAN-10	.518g	50mL	
244628012	RE12-10-7264	SAMPLE	S	20-JAN-10	.509g	50mL	
244628013	RE12-10-7270	SAMPLE	S	20-JAN-10	.5g	50mL	
244628014	RE12-10-7269	SAMPLE	S	20-JAN-10	.5g	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

Method Type: P

Contract:

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>
244628015	RE12-10-7283	SAMPLE	S	20-JAN-10	.514g	50mL	
244628016	RE12-10-7282	SAMPLE	S	20-JAN-10	.5g	50mL	
Batch Number 950666							
1202037290	MB for batch 950666	MB	S	08-FEB-10	.518g	50mL	
1202037291	LCS for batch 950666	LCS	S	08-FEB-10	.549g	50mL	
1202015838	RE12-10-7262S	MS	S	08-FEB-10	.5g	50mL	
1202015839	RE12-10-7262SD	MSD	S	08-FEB-10	.577g	50mL	
1202015836	RE12-10-7262D	DUP	S	08-FEB-10	.513g	50mL	
244628001	RE12-10-7262	SAMPLE	S	08-FEB-10	.584g	50mL	
244628002	RE12-10-7266	SAMPLE	S	08-FEB-10	.508g	50mL	
244628003	RE12-10-7258	SAMPLE	S	08-FEB-10	.557g	50mL	
244628004	RE12-10-7268	SAMPLE	S	08-FEB-10	.508g	50mL	
244628005	RE12-10-7265	SAMPLE	S	08-FEB-10	.587g	50mL	
244628006	RE12-10-7261	SAMPLE	S	08-FEB-10	.514g	50mL	
244628007	RE12-10-7259	SAMPLE	S	08-FEB-10	.509g	50mL	
244628008	RE12-10-7263	SAMPLE	S	08-FEB-10	.554g	50mL	
244628009	RE12-10-7271	SAMPLE	S	08-FEB-10	.585g	50mL	
244628010	RE12-10-7260	SAMPLE	S	08-FEB-10	.522g	50mL	
244628011	RE12-10-7267	SAMPLE	S	08-FEB-10	.551g	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

Method Type: P

Contract:

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>
244628012	RE12-10-7264	SAMPLE	S	08-FEB-10	.518g	50mL	
244628013	RE12-10-7270	SAMPLE	S	08-FEB-10	.575g	50mL	
244628014	RE12-10-7269	SAMPLE	S	08-FEB-10	.504g	50mL	
244628015	RE12-10-7283	SAMPLE	S	08-FEB-10	.542g	50mL	
244628016	RE12-10-7282	SAMPLE	S	08-FEB-10	.547g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

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 941796							
1202015846	MB for batch 941796	MB	S	20-JAN-10	.501g	50mL	
1202015851	LCS for batch 941796	LCS	S	20-JAN-10	.507g	50mL	
1202015849	RE12-10-7262S	MS	S	20-JAN-10	.506g	50mL	
1202015850	RE12-10-7262SD	MSD	S	20-JAN-10	.522g	50mL	
1202015847	RE12-10-7262D	DUP	S	20-JAN-10	.515g	50mL	
244628001	RE12-10-7262	SAMPLE	S	20-JAN-10	.504g	50mL	
244628002	RE12-10-7266	SAMPLE	S	20-JAN-10	.51g	50mL	
244628003	RE12-10-7258	SAMPLE	S	20-JAN-10	.506g	50mL	
244628004	RE12-10-7268	SAMPLE	S	20-JAN-10	.512g	50mL	
244628005	RE12-10-7265	SAMPLE	S	20-JAN-10	.521g	50mL	
244628006	RE12-10-7261	SAMPLE	S	20-JAN-10	.509g	50mL	
244628007	RE12-10-7259	SAMPLE	S	20-JAN-10	.522g	50mL	
244628008	RE12-10-7263	SAMPLE	S	20-JAN-10	.508g	50mL	
244628009	RE12-10-7271	SAMPLE	S	20-JAN-10	.512g	50mL	
244628010	RE12-10-7260	SAMPLE	S	20-JAN-10	.5g	50mL	
244628011	RE12-10-7267	SAMPLE	S	20-JAN-10	.503g	50mL	
244628012	RE12-10-7264	SAMPLE	S	20-JAN-10	.502g	50mL	
244628013	RE12-10-7270	SAMPLE	S	20-JAN-10	.5g	50mL	
244628014	RE12-10-7269	SAMPLE	S	20-JAN-10	.525g	50mL	

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METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

Method Type: MS

Contract:

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>
244628015	RE12-10-7283	SAMPLE	S	20-JAN-10	.516g	50mL	
244628016	RE12-10-7282	SAMPLE	S	20-JAN-10	.505g	50mL	
Batch Number 950022							
1202035553	MB for batch 950022	MB	S	08-FEB-10	.517g	50mL	
1202035554	LCS for batch 950022	LCS	S	08-FEB-10	.518g	50mL	
1202015849	RE12-10-7262S	MS	S	08-FEB-10	.523g	50mL	
1202015850	RE12-10-7262SD	MSD	S	08-FEB-10	.504g	50mL	
1202015847	RE12-10-7262D	DUP	S	08-FEB-10	.524g	50mL	
244628001	RE12-10-7262	SAMPLE	S	08-FEB-10	.541g	50mL	
244628002	RE12-10-7266	SAMPLE	S	08-FEB-10	.552g	50mL	
244628003	RE12-10-7258	SAMPLE	S	08-FEB-10	.525g	50mL	
244628004	RE12-10-7268	SAMPLE	S	08-FEB-10	.512g	50mL	
244628005	RE12-10-7265	SAMPLE	S	08-FEB-10	.539g	50mL	
244628006	RE12-10-7261	SAMPLE	S	08-FEB-10	.501g	50mL	
244628007	RE12-10-7259	SAMPLE	S	08-FEB-10	.538g	50mL	
244628008	RE12-10-7263	SAMPLE	S	08-FEB-10	.518g	50mL	
244628009	RE12-10-7271	SAMPLE	S	08-FEB-10	.5g	50mL	
244628010	RE12-10-7260	SAMPLE	S	08-FEB-10	.533g	50mL	
244628011	RE12-10-7267	SAMPLE	S	08-FEB-10	.5g	50mL	

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METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

Method Type: MS

Contract:

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>
244628012	RE12-10-7264	SAMPLE	S	08-FEB-10	.5g	50mL	
244628013	RE12-10-7270	SAMPLE	S	08-FEB-10	.554g	50mL	
244628014	RE12-10-7269	SAMPLE	S	08-FEB-10	.547g	50mL	
244628015	RE12-10-7283	SAMPLE	S	08-FEB-10	.537g	50mL	
244628016	RE12-10-7282	SAMPLE	S	08-FEB-10	.546g	50mL	

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METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

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 943308							
1202019757	MB for batch 943308	MB	S	27-JAN-10	.576g	30mL	
1202019758	LCS for batch 943308	LCS	S	27-JAN-10	.202g	30mL	
1202019760	RE12-10-7262S	MS	S	27-JAN-10	.578g	30mL	
1202019764	RE12-10-7262SD	MSD	S	27-JAN-10	.504g	30mL	
1202019759	RE12-10-7262D	DUP	S	27-JAN-10	.535g	30mL	
244628001	RE12-10-7262	SAMPLE	S	27-JAN-10	.526g	30mL	
244628002	RE12-10-7266	SAMPLE	S	27-JAN-10	.529g	30mL	
244628003	RE12-10-7258	SAMPLE	S	27-JAN-10	.544g	30mL	
244628004	RE12-10-7268	SAMPLE	S	27-JAN-10	.578g	30mL	
244628005	RE12-10-7265	SAMPLE	S	27-JAN-10	.507g	30mL	
244628006	RE12-10-7261	SAMPLE	S	27-JAN-10	.515g	30mL	
244628007	RE12-10-7259	SAMPLE	S	27-JAN-10	.533g	30mL	
244628008	RE12-10-7263	SAMPLE	S	27-JAN-10	.587g	30mL	
244628009	RE12-10-7271	SAMPLE	S	27-JAN-10	.556g	30mL	
244628010	RE12-10-7260	SAMPLE	S	27-JAN-10	.561g	30mL	
244628011	RE12-10-7267	SAMPLE	S	27-JAN-10	.572g	30mL	
244628012	RE12-10-7264	SAMPLE	S	27-JAN-10	.585g	30mL	
244628013	RE12-10-7270	SAMPLE	S	27-JAN-10	.544g	30mL	
244628014	RE12-10-7269	SAMPLE	S	27-JAN-10	.509g	30mL	

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METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1226

Method Type: AV

Contract:

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>
244628015	RE12-10-7283	SAMPLE	S	27-JAN-10	.584g	30mL	
244628016	RE12-10-7282	SAMPLE	S	27-JAN-10	.503g	30mL	

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Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 30-JAN-10

End Date: 30-JAN-10

Client Sdg: 10-1226

Method MS

Data File: 100129-4

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	16:25			X													X	X			X				
S10	1	16:31			X													X	X			X				
S100	1	16:37			X													X	X			X				
ICV01	1	16:42			X													X	X			X				
ICB01	1	16:48			X													X	X			X				
CRDL01	1	16:54			X													X	X			X				
ICSA01	1	17:00			X													X	X			X				
ICSAB01	1	17:06			X													X	X			X				
CCV01	1	17:12			X													X	X			X				
CCB01	1	17:18			X													X	X			X				
I202015846	2	17:24			X													X	X			X				
I202015851	40	17:30			X													X	X			X				
CCV02	1	17:35			X													X	X			X				
CCB02	1	17:41			X													X	X			X				
244628001	2	17:47			X													X	X			X				
I202015847	2	17:53			X													X	X			X				
I202015849	2	17:59			X													X	X			X				
I202015850	2	18:05			X													X	X			X				
I202015848	10	18:11			X													X	X			X				
244628002	2	18:17			X													X	X			X				
244628003	2	18:23			X													X	X			X				
244628004	2	18:29			X													X	X			X				
244628005	2	18:34			X													X	X			X				
CCV03	1	18:40			X													X	X			X				
CCB03	1	18:46			X													X	X			X				
244628006	2	18:52			X													X	X			X				
244628007	2	18:58			X													X	X			X				
244628008	2	19:04			X													X	X			X				
244628009	2	19:10			X													X	X			X				
244628010	2	19:16			X													X	X			X				
244628011	2	19:22			X													X	X			X				
244628012	2	19:28			X													X	X			X				
244628013	2	19:33			X													X	X			X				
CCV04	1	19:39			X													X	X			X				
CCB04	1	19:45			X													X	X			X				
244628014	2	19:51			X													X	X							
244628015	2	19:57			X													X	X			X				
244628016	2	20:03			X													X	X			X				
CCV05	1	20:09			X													X	X			X				
CCB05	1	20:15			X													X	X			X				

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 06-FEB-10

End Date: 07-FEB-10

Client Sdg: 10-1226

Method MS

Data File: 100206-5

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	20:56					X																			
S10	1	20:59					X																			
S100	1	21:02					X																			
ICV01	1	21:04					X																			
ICB01	1	21:07					X																			
CRDL01	1	21:10					X																			
ICSA01	1	21:12					X																			
ICSAB01	1	21:15					X																			
CCV01	1	21:18					X																			
CCB01	1	21:20					X																			
1202015846	2	21:23					X																			
1202015851	40	21:26					X																			
CCV02	1	21:29					X																			
CCB02	1	21:31					X																			
244628001	2	21:34					X																			
1202015847	2	21:37					X																			
1202015849	2	21:39					X																			
1202015850	2	21:42					X																			
1202015848	10	21:45					X																			
244628002	2	21:47					X																			
244628003	2	21:50					X																			
244628004	2	21:53					X																			
CCV03	1	21:55					X																			
CCB03	1	21:58					X																			
244628005	2	22:01					X																			
244628006	2	22:03					X																			
244628007	2	22:06					X																			
244628008	2	22:09					X																			
244628009	2	22:12					X																			
244628010	2	22:14					X																			
244628011	2	22:17					X																			
CCV04	1	22:20					X																			
CCB04	1	22:22					X																			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 06-FEB-10

End Date: 07-FEB-10

Client Sdg: 10-1226

Method MS

Data File: 100206-6

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	23:07																					X			
S10	1	23:12																					X			
S100	1	23:16																					X			
ICV01	1	23:21																					X			
ICB01	1	23:26																					X			
CRDL01	1	23:31																					X			
ICSA01	1	23:36																					X			
ICSAB01	1	23:41																					X			
CCV01	1	23:46																					X			
CCB01	1	23:51																					X			
244628014	2	23:56																					X			
CCV02	1	23:59																					X			
CCB02	1	00:04																					X			

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 09-FEB-10

End Date: 09-FEB-10

Client Sdg: 10-1226

Method MS

Data File: 100208-7

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg/Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	03:47					X																		
S10	1	03:50					X																		
S100	1	03:53					X																		
ICV01	1	03:55					X																		
ICB01	1	03:58					X																		
CRDL01	1	04:01					X																		
ICSA01	1	04:03					X																		
ICSAB01	1	04:06					X																		
CCV01	1	04:09					X																		
CCB01	1	04:12					X																		
LR01	1	04:14					X																		
CCV02	1	04:17					X																		
CCB02	1	04:20					X																		
244628012	2	04:26					X																		
244628013	2	04:29					X																		
CCV03	1	04:32					X																		
CCB03	1	04:35					X																		
244628014	2	04:37					X																		
244628015	2	04:40					X																		
244628016	2	04:44					X																		
CCV04	1	04:47					X																		
CCB04	1	04:49					X																		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 29-JAN-10

End Date: 30-JAN-10

Client Sdg: 10-1226

Method P

Data File: 012910-2

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	17:29	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
S0.1	1	17:36		X		X		X		X	X			X		X			X		X				X	X
S0.5	1	17:42	X	X		X		X	X	X	X			X	X	X			X		X				X	X
SCAL	1	17:49	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
S10	1	17:57	X						X				X		X							X				
ICV01	1	18:02	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ICB01	1	18:09	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
PQL01	1	18:16	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ICSA01	1	18:23	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ICSAB01	1	18:29	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
LR01	1	18:35	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
LR02	1	18:41	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCV01	1	18:48	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCB01	1	18:55	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
LR03	1	19:02	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCV02	1	19:09	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCB02	1	19:16	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:24																								
ZZZZZZ	1	19:31																								
ZZZZZZ	1	19:38																								
ZZZZZZ	1	19:45																								
ZZZZZZ	1	19:52																								
ZZZZZZ	5	19:59																								
ZZZZZZ	1	20:06																								
ZZZZZZ	1	20:14																								
CCV03	1	20:21	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCB03	1	20:28	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:35																								
ZZZZZZ	1	20:43																								
ZZZZZZ	1	20:50																								
ZZZZZZ	1	20:57																								
ZZZZZZ	5	21:04																								
ZZZZZZ	1	21:11																								
ZZZZZZ	1	21:18																								
ZZZZZZ	1	21:25																								
ZZZZZZ	1	21:32																								
CCV04	1	21:39	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
CCB04	1	21:46	X	X		X		X	X	X	X		X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:53																								
ZZZZZZ	1	22:00																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																		
ZZZZZZ	1	22:07																		
ZZZZZZ	1	22:15																		
ZZZZZZ	1	22:22																		
ZZZZZZ	1	22:29																		
ZZZZZZ	1	22:36																		
ZZZZZZ	1	22:43																		
ZZZZZZ	1	22:50																		
CCV05	1	22:57	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCB05	1	23:04	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015835	1	23:11	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015840	1	23:18	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628001	1	23:25	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015836	1	23:32	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015838	1	23:39	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015839	1	23:46	X	X		X		X	X	X	X		X	X	X	X		X	X	X
1202015837	5	23:53	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCV06	1	00:00	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCB06	1	00:07	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628002	1	00:14	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628003	1	00:21	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628004	1	00:28	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628005	1	00:35	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628006	1	00:42	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628007	1	00:49	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628008	1	00:56	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628009	1	01:03	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCV07	1	01:10	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCB07	1	01:17	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628010	1	01:25	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628011	1	01:32	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628012	1	01:39	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628013	1	01:46	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628014	1	01:53	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628015	1	02:01	X	X		X		X	X	X	X		X	X	X	X		X	X	X
244628016	1	02:08	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCV08	1	02:15	X	X		X		X	X	X	X		X	X	X	X		X	X	X
CCB08	1	02:22	X	X		X		X	X	X	X		X	X	X	X		X	X	X

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 28-JAN-10

End Date: 28-JAN-10

Client Sdg: 10-1226

Method: AV

Data File: 012810S1-8

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	08:55															X									
S0.2	1	08:56															X									
S0.5	1	08:58															X									
S2.0	1	09:00															X									
S5.0	1	09:01															X									
S10.0	1	09:03															X									
ICV01	1	09:05															X									
ICB01	1	09:06															X									
CRDL01	1	09:08															X									
CCV01	1	09:10															X									
CCB01	1	09:11															X									
ZZZZZZ	1	09:13																								
ZZZZZZ	10	09:15																								
ZZZZZZ	1	09:17																								
ZZZZZZ	1	09:18																								
ZZZZZZ	1	09:20																								
ZZZZZZ	1	09:21																								
ZZZZZZ	5	09:23																								
ZZZZZZ	1	09:25																								
ZZZZZZ	1	09:26																								
ZZZZZZ	1	09:28																								
CCV02	1	09:30															X									
CCB02	1	09:31															X									
ZZZZZZ	1	09:33																								
ZZZZZZ	1	09:35																								
ZZZZZZ	1	09:36																								
ZZZZZZ	1	09:38																								
ZZZZZZ	1	09:40																								
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:43																								
ZZZZZZ	1	09:45																								
ZZZZZZ	1	09:47																								
ZZZZZZ	1	09:48																								
CCV03	1	09:50															X									
CCB03	1	09:52															X									
ZZZZZZ	1	09:53																								
ZZZZZZ	1	09:55																								
ZZZZZZ	10	09:57																								
ZZZZZZ	1	09:58																								
ZZZZZZ	1	10:00																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZZ	1	10:02
ZZZZZZ	1	10:03
ZZZZZZ	1	10:05
ZZZZZZ	1	10:07
ZZZZZZ	1	10:08
CCV04	1	10:10
CCB04	1	10:12
ZZZZZZ	1	10:13
ZZZZZZ	1	10:15
ZZZZZZ	1	10:17
ZZZZZZ	1	10:18
ZZZZZZ	1	10:20
ZZZZZZ	1	10:22
ZZZZZZ	1	10:23
ZZZZZZ	1	10:25
ZZZZZZ	1	10:27
ZZZZZZ	1	10:28
CCV05	1	10:30
CCB05	1	10:32
ZZZZZZ	1	10:33
ZZZZZZ	1	10:35
ZZZZZZ	1	10:37
ZZZZZZ	5	10:38
ZZZZZZ	1	10:40
ZZZZZZ	1	10:42
ZZZZZZ	1	10:43
ZZZZZZ	10	10:45
ZZZZZZ	1	10:47
ZZZZZZ	1	10:48
CCV06	1	10:50
CCB06	1	10:52
ZZZZZZ	1	10:54
ZZZZZZ	1	10:55
ZZZZZZ	5	10:57
ZZZZZZ	1	10:59
ZZZZZZ	1	11:00
ZZZZZZ	1	11:02
ZZZZZZ	1	11:04
ZZZZZZ	1	11:05
ZZZZZZ	1	11:07

Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	11:09																								
CCV07	1	11:10															X									
CCB07	1	11:12															X									
ZZZZZZ	1	11:14																								
ZZZZZZ	1	11:15																								
ZZZZZZ	1	11:17																								
ZZZZZZ	1	11:19																								
ZZZZZZ	1	11:20																								
ZZZZZZ	1	11:22																								
ZZZZZZ	1	11:24																								
ZZZZZZ	10	11:25																								
ZZZZZZ	1	11:27																								
ZZZZZZ	1	11:29																								
CCV08	1	11:30															X									
CCB08	1	11:32															X									
ZZZZZZ	1	11:34																								
ZZZZZZ	1	11:36																								
ZZZZZZ	1	11:37																								
ZZZZZZ	1	11:39																								
ZZZZZZ	1	11:41																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:44																								
ZZZZZZ	1	11:46																								
ZZZZZZ	1	11:47																								
ZZZZZZ	1	11:49																								
CCV09	1	11:51															X									
CCB09	1	11:52															X									
ZZZZZZ	1	11:54																								
ZZZZZZ	1	11:56																								
ZZZZZZ	1	11:57																								
ZZZZZZ	5	11:59																								
ZZZZZZ	1	12:01																								
ZZZZZZ	1	12:03																								
ZZZZZZ	1	12:04																								
ZZZZZZ	1	12:06																								
ZZZZZZ	1	12:08																								
ZZZZZZ	1	12:09																								
CCV10	1	12:11															X									
CCB10	1	12:13															X									
ZZZZZZ	1	12:14																								

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Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
244628010	1	13:24															X									
244628011	1	13:26															X									
244628012	1	13:28															X									
244628013	1	13:29															X									
244628014	1	13:31															X									
CCV14	1	13:33															X									
CCB14	1	13:34															X									
244628015	1	13:36															X									
244628016	1	13:38															X									
CCV15	1	13:40															X									
CCB15	1	13:41															X									

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 09-FEB-10

End Date: 09-FEB-10

Client Sdg: 10-1226

Method MS

Data File: 100209-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	11:25																						X		
S10	1	11:28																						X		
S100	1	11:30																						X		
ICV01	1	11:32																						X		
ICB01	1	11:34																						X		
CRDL01	1	11:36																						X		
ICSA01	1	11:38																						X		
ICSAB01	1	11:41																						X		
CCV01	1	11:43																						X		
CCB01	1	11:45																						X		
1202035553	2	11:47																						X		
1202035554	40	11:49																						X		
244628001	2	11:52																						X		
1202015847	2	11:54																						X		
1202015849	2	11:56																						X		
1202015850	2	11:58																						X		
1202015848	10	12:01																						X		
244628002	2	12:03																						X		
244628003	2	12:05																						X		
CCV02	1	12:07																						X		
CCB02	1	12:09																						X		
244628004	2	12:12																						X		
244628005	2	12:14																						X		
244628006	2	12:16																						X		
244628007	2	12:18																						X		
244628008	2	12:20																						X		
244628009	2	12:23																						X		
244628010	2	12:25																						X		
244628011	2	12:27																						X		
CCV03	1	12:29																						X		
CCB03	1	12:32																						X		
244628012	2	12:34																						X		
244628013	2	12:36																						X		
244628014	2	12:38																						X		
244628015	2	12:41																						X		
244628016	2	12:43																						X		
CCV04	1	12:45																						X		
CCB04	1	12:47																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 09-FEB-10

End Date: 09-FEB-10

Client Sdg: 10-1226

Method P

Data File: 020910-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	06:04										X														
S0.1	1	06:08										X														
S0.5	1	06:11										X														
SCAL	1	06:14										X														
S10	1	06:18																								
ICV01	1	06:20										X														
ICB01	1	06:24										X														
PQL01	1	06:27										X														
ICSA01	1	06:31										X														
ICSAB01	1	06:34										X														
LR01	1	06:37										X														
LR02	1	06:40										X														
CCV01	1	06:44										X														
CCB01	1	06:48										X														
LR03	1	06:56										X														
CCV02	1	06:59										X														
CCB02	1	07:03										X														
1202037290	1	07:06										X														
1202037291	1	07:10										X														
244628001	1	07:13										X														
1202015836	1	07:17										X														
1202015838	1	07:20										X														
1202015839	1	07:24										X														
1202015837	5	07:28										X														
CCV03	1	07:31										X														
CCB03	1	07:35										X														
244628002	1	07:39										X														
244628003	1	07:42										X														
244628004	1	07:46										X														
244628005	1	07:50										X														
244628006	1	07:53										X														
244628007	1	07:57										X														
244628008	1	08:01										X														
244628009	1	08:04										X														
CCV04	1	08:08										X														
CCB04	1	08:12										X														
244628010	1	08:15										X														
244628011	1	08:19										X														
244628012	1	08:23										X														
244628013	1	08:26										X														

[illegible]

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1226

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	Analyte	<u>Wavelength</u>	<u>MDL</u>	<u>RDL</u>
		(nm)	ug/L	ug/L
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. 10-1226

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

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

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1226

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	Analyte	<u>Wavelength</u>	<u>MDL</u>	<u>RDL</u>
		<u>(nm)</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: 10-1226

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	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

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	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1226**

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	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

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	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1226**

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	-15.4932
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	-9.37529
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

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	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.55360	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
Silica	251.611	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.81635	-4.04400	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	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.05500	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.28800	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.04600	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1226**

Contract: LANL01004

Instrument: OPTIMA1

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	11.3250	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	-1.59900	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-21.2250	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.68400
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	1.19100	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	105.59
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	3.36300	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-2.30400	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.61100

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	20.5430
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-16.3320
Arsenic	188.979	-0.05800	0.00000	0.00000	0.00000	1.97700
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.13300	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	-0.90500
Copper	324.752	-0.13900	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.03800	-2.87600	0.00000	0.00000	0.00000
Magnesium	279.077	1.07300	0.00000	0.00000	0.00000	-16.8110
Manganese	257.61	-0.13900	0.00000	0.04000	0.00000	0.00000
Molybdenum	202.031	-0.03800	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.01300	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.81200	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.88200	0.00000	0.28200	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	-0.06300	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.03900	0.00000	0.00000	-4.11700	0.00000
Tin	189.927	-0.09200	0.00000	-0.19600	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.07900	0.00000	0.00000
Uranium	409.014	0.13900	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-0.05300	0.00000	0.00000	0.00000	-7.71400
Zinc	213.857	0.14460	0.00000	0.02030	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1226**Contract: LANL01004Instrument: OPTIMA1Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Nickel	Phosphorous	Selenium	Silicon	Silver
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	-0.99900	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	4.41600	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Sulfur	Thallium	Tin	Titanium	Uranium
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	0.38100	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	2.08700	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.04000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	-14.8110	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-8.68900	-1.22400
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	-1.03900
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1226

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-12-
Linear Ranges

SDG NO. 10-1226

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS6

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

METALS
-12-
Linear Ranges

SDG NO. 10-1226

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. 10-1226

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
Aluminum	1	50000	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. 10-1226

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
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

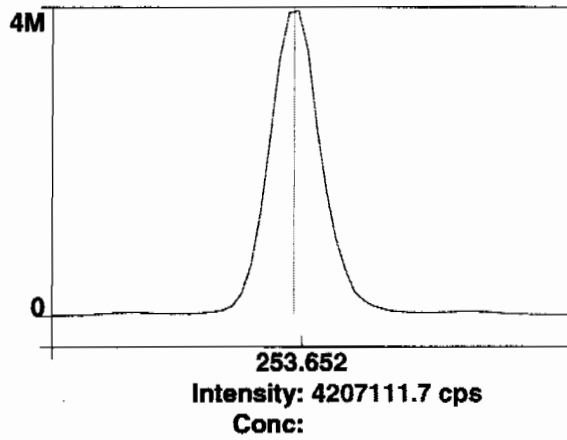
Raw Data

Method: Hg_ReAlign
Result: 020910

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

2/9/2010 06:02:07 Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.000 Slit adjustment: 5

Analysis Begun

Start Time: 2/9/2010 06:04:50

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

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\020910.sif

Batch ID:

Results Data Set: 020910

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

Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 2/8/2010 10:22:06

IEC File: 011510.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 2/9/2010 06:04:53

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
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1	Sc RADIAL	53065.8	53065.8	98.9 %	06:05:27
1	Al 396.153Radial†	-4.4	-4.4	[0.00] µg/L	06:05:27
1	Ca 317.933Radial†	173.4	175.4	[0.00] µg/L	06:05:47
1	Fe 238.204 Radial†	13.5	13.7	[0.00] µg/L	06:05:47
1	K 766.490 Radial†	124.0	125.3	[0.00] µg/L	06:05:27
1	Mg 279.077 IEC†	11.7	11.8	[0.00] µg/L	06:05:47
1	Na 589.592 Radial†	479.9	485.2	[0.00] µg/L	06:05:27
1	Sr 421.552†	57.7	58.4	[0.00] µg/L	06:05:27
1	Sc 361.383	1858595.5	1858595.5	98.703 %	06:06:49
1	Y 371.029	1280194.8	1280194.8	98.741 %	06:06:49
1	Ag 328.068†	-615.0	-623.1	[0.00] µg/L	06:06:54
1	As 188.979†	-1.5	-1.5	[0.00] µg/L	06:07:15
1	B 249.677†	285.9	289.7	[0.00] µg/L	06:07:15
1	Ba 233.527†	-26.7	-27.1	[0.00] µg/L	06:07:15
1	Be 313.107†	-3549.3	-3596.0	[0.00] µg/L	06:06:54
1	Cd 226.502†	-138.9	-140.8	[0.00] µg/L	06:07:15
1	Co 228.616†	-15.7	-15.9	[0.00] µg/L	06:07:15
1	Cr 267.716†	-25.9	-26.3	[0.00] µg/L	06:07:15
1	Cu 324.752†	2708.3	2743.9	[0.00] µg/L	06:06:54
1	Mn 257.610†	-262.9	-266.3	[0.00] µg/L	06:07:15
1	Mo 202.031†	-11.9	-12.1	[0.00] µg/L	06:07:15
1	Ni 231.604†	291.4	295.2	[0.00] µg/L	06:07:15
1	P 214.914†	24.9	25.2	[0.00] µg/L	06:07:15
1	Pb 220.353†	96.2	97.4	[0.00] µg/L	06:07:15
1	S 181.975 Axial†	13.2	13.3	[0.00] µg/L	06:07:15
1	Sb 206.836†	22.4	22.7	[0.00] µg/L	06:07:15
1	Se 196.026†	15.7	15.9	[0.00] µg/L	06:07:15
1	SiO2†	1313.5	1330.8	[0.00] µg/L	06:06:54
1	Si 251.611†	249.0	252.3	[0.00] µg/L	06:07:15
1	Sn 189.927†	-0.4	-0.4	[0.00] µg/L	06:07:15
1	Ti 334.940†	92.9	94.1	[0.00] µg/L	06:06:54
1	Tl 190.801†	-26.1	-26.4	[0.00] µg/L	06:07:15
1	U 409.014†	-46.1	-46.7	[0.00] µg/L	06:06:54
1	V 292.402†	-46.6	-47.2	[0.00] µg/L	06:06:54
1	Zn 213.857†	460.2	466.2	[0.00] µg/L	06:07:15
2	Sc RADIAL	54285.8	54285.8	101 %	06:05:53
2	Al 396.153Radial†	-30.9	-30.5	[0.00] µg/L	06:05:53
2	Ca 317.933Radial†	188.0	185.8	[0.00] µg/L	06:06:13
2	Fe 238.204 Radial†	13.4	13.2	[0.00] µg/L	06:06:13
2	K 766.490 Radial†	190.1	187.9	[0.00] µg/L	06:05:53
2	Mg 279.077 IEC†	12.3	12.1	[0.00] µg/L	06:06:13
2	Na 589.592 Radial†	533.8	527.6	[0.00] µg/L	06:05:53
2	Sr 421.552†	30.9	30.5	[0.00] µg/L	06:05:53
2	Sc 361.383	1897297.4	1897297.4	100.76 %	06:07:21
2	Y 371.029	1305709.0	1305709.0	100.71 %	06:07:21
2	Ag 328.068†	-623.5	-618.8	[0.00] µg/L	06:07:27
2	As 188.979†	0.1	0.1	[0.00] µg/L	06:07:47
2	B 249.677†	273.3	271.3	[0.00] µg/L	06:07:47
2	Ba 233.527†	-34.6	-34.3	[0.00] µg/L	06:07:47
2	Be 313.107†	-3529.5	-3503.0	[0.00] µg/L	06:07:27
2	Cd 226.502†	-138.7	-137.6	[0.00] µg/L	06:07:47
2	Co 228.616†	-25.1	-24.9	[0.00] µg/L	06:07:47
2	Cr 267.716†	-38.4	-38.1	[0.00] µg/L	06:07:47
2	Cu 324.752†	2655.1	2635.2	[0.00] µg/L	06:07:27
2	Mn 257.610†	-269.5	-267.5	[0.00] µg/L	06:07:47
2	Mo 202.031†	-8.3	-8.2	[0.00] µg/L	06:07:47
2	Ni 231.604†	302.5	300.3	[0.00] µg/L	06:07:47
2	P 214.914†	25.5	25.3	[0.00] µg/L	06:07:47
2	Pb 220.353†	78.9	78.3	[0.00] µg/L	06:07:47
2	S 181.975 Axial†	16.7	16.5	[0.00] µg/L	06:07:47
2	Sb 206.836†	24.5	24.3	[0.00] µg/L	06:07:47
2	Se 196.026†	14.1	14.0	[0.00] µg/L	06:07:47
2	SiO2†	1344.6	1334.5	[0.00] µg/L	06:07:27
2	Si 251.611†	267.1	265.1	[0.00] µg/L	06:07:47
2	Sn 189.927†	-5.8	-5.8	[0.00] µg/L	06:07:47
2	Ti 334.940†	71.9	71.4	[0.00] µg/L	06:07:27
2	Tl 190.801†	-24.1	-24.0	[0.00] µg/L	06:07:47
2	U 409.014†	35.4	35.1	[0.00] µg/L	06:07:27
2	V 292.402†	-18.4	-18.2	[0.00] µg/L	06:07:27
2	Zn 213.857†	457.8	454.3	[0.00] µg/L	06:07:47
3	Sc RADIAL	53617.8	53617.8	99.9 %	06:06:19

3	Al 396.153Radial†	-13.6	-13.6	[0.00]	µg/L	06:06:19
3	Ca 317.933Radial†	170.1	170.3	[0.00]	µg/L	06:06:39
3	Fe 238.204 Radial†	14.6	14.6	[0.00]	µg/L	06:06:39
3	K 766.490 Radial†	140.1	140.2	[0.00]	µg/L	06:06:19
3	Mg 279.077 IEC†	10.4	10.4	[0.00]	µg/L	06:06:39
3	Na 589.592 Radial†	488.4	488.8	[0.00]	µg/L	06:06:19
3	Sr 421.552†	23.2	23.2	[0.00]	µg/L	06:06:19
3	Sc 361.383	1893170.1	1893170.1	100.54	%	06:07:53
3	Y 371.029	1303635.3	1303635.3	100.55	%	06:07:53
3	Ag 328.068†	-524.3	-521.5	[0.00]	µg/L	06:07:59
3	As 188.979†	2.1	2.1	[0.00]	µg/L	06:08:19
3	B 249.677†	266.7	265.3	[0.00]	µg/L	06:08:19
3	Ba 233.527†	-30.7	-30.5	[0.00]	µg/L	06:08:19
3	Be 313.107†	-3621.4	-3602.0	[0.00]	µg/L	06:07:59
3	Cd 226.502†	-137.3	-136.6	[0.00]	µg/L	06:08:19
3	Co 228.616†	-12.5	-12.4	[0.00]	µg/L	06:08:19
3	Cr 267.716†	-37.2	-37.0	[0.00]	µg/L	06:08:19
3	Cu 324.752†	2742.6	2727.9	[0.00]	µg/L	06:07:59
3	Mn 257.610†	-277.5	-276.1	[0.00]	µg/L	06:08:19
3	Mo 202.031†	-8.7	-8.7	[0.00]	µg/L	06:08:19
3	Ni 231.604†	298.7	297.1	[0.00]	µg/L	06:08:19
3	P 214.914†	31.4	31.3	[0.00]	µg/L	06:08:19
3	Pb 220.353†	94.9	94.4	[0.00]	µg/L	06:08:19
3	S 181.975 Axial†	12.3	12.2	[0.00]	µg/L	06:08:19
3	Sb 206.836†	21.7	21.6	[0.00]	µg/L	06:08:19
3	Se 196.026†	14.3	14.2	[0.00]	µg/L	06:08:19
3	SiO2†	1326.8	1319.6	[0.00]	µg/L	06:07:59
3	Si 251.611†	262.9	261.5	[0.00]	µg/L	06:08:19
3	Sn 189.927†	2.9	2.9	[0.00]	µg/L	06:08:19
3	Ti 334.940†	106.7	106.1	[0.00]	µg/L	06:07:59
3	Tl 190.801†	-27.1	-27.0	[0.00]	µg/L	06:08:19
3	U 409.014†	4.7	4.6	[0.00]	µg/L	06:07:59
3	V 292.402†	-59.5	-59.2	[0.00]	µg/L	06:07:59
3	Zn 213.857†	459.5	457.0	[0.00]	µg/L	06:08:19

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1883021.0	21253.50	1.13%	100.00 %
Sc RADIAL	53656.5	610.94	1.14%	100 %
Y 371.029	1296513.1	14169.98	1.09%	100.00 %
Ag 328.068†	-587.8	57.46	9.78%	[0.00] µg/L
Al 396.153Radial†	-16.2	13.23	81.77%	[0.00] µg/L
As 188.979†	0.2	1.82	836.79%	[0.00] µg/L
B 249.677†	275.4	12.71	4.61%	[0.00] µg/L
Ba 233.527†	-30.6	3.62	11.83%	[0.00] µg/L
Be 313.107†	-3567.0	55.51	1.56%	[0.00] µg/L
Ca 317.933Radial†	177.1	7.91	4.47%	[0.00] µg/L
Cd 226.502†	-138.3	2.16	1.56%	[0.00] µg/L
Co 228.616†	-17.7	6.46	36.42%	[0.00] µg/L
Cr 267.716†	-33.8	6.52	19.30%	[0.00] µg/L
Cu 324.752†	2702.3	58.69	2.17%	[0.00] µg/L
Fe 238.204 Radial†	13.8	0.69	5.01%	[0.00] µg/L
K 766.490 Radial†	151.2	32.67	21.61%	[0.00] µg/L
Mg 279.077 IEC†	11.4	0.92	8.07%	[0.00] µg/L
Mn 257.610†	-269.9	5.32	1.97%	[0.00] µg/L
Mo 202.031†	-9.7	2.12	21.90%	[0.00] µg/L
Na 589.592 Radial†	500.5	23.51	4.70%	[0.00] µg/L
Ni 231.604†	297.5	2.54	0.85%	[0.00] µg/L
P 214.914†	27.3	3.48	12.77%	[0.00] µg/L
Pb 220.353†	90.0	10.27	11.41%	[0.00] µg/L
S 181.975 Axial†	14.0	2.25	16.07%	[0.00] µg/L
Sb 206.836†	22.9	1.35	5.92%	[0.00] µg/L
Se 196.026†	14.7	1.01	6.85%	[0.00] µg/L
SiO2†	1328.3	7.73	0.58%	[0.00] µg/L
Si 251.611†	259.6	6.63	2.55%	[0.00] µg/L
Sn 189.927†	-1.1	4.37	391.28%	[0.00] µg/L
Sr 421.552†	37.4	18.56	49.67%	[0.00] µg/L
Ti 334.940†	90.5	17.63	19.48%	[0.00] µg/L
Tl 190.801†	-25.8	1.62	6.26%	[0.00] µg/L

U 409.014†	-2.3	41.33	>999.9%	[0.00] µg/L
V 292.402†	-41.5	21.07	50.73%	[0.00] µg/L
Zn 213.857†	459.2	6.24	1.36%	[0.00] µg/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 2/9/2010 06:08:29
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	54103.8	54103.8	101 %		06:09:03
1	K 766.490 Radial†	1481.0	1317.6	[1000] µg/L		06:09:03
1	Sr 421.552†	9410.6	9295.5	[100] µg/L		06:09:03
1	Sc 361.383	1867865.0	1867865.0	99.195 %		06:09:25
1	Y 371.029	1285872.3	1285872.3	99.179 %		06:09:25
1	Ag 328.068†	11591.4	12273.3	[100] µg/L		06:09:31
1	As 188.979†	50.4	50.6	[100] µg/L		06:09:51
1	B 249.677†	2396.0	2140.0	[100] µg/L		06:09:31
1	Ba 233.527†	3655.1	3715.3	[100] µg/L		06:09:31
1	Be 313.107†	142694.7	147419.5	[100] µg/L		06:09:25
1	Cd 226.502†	3415.6	3581.7	[100] µg/L		06:09:31
1	Co 228.616†	1930.8	1964.2	[100] µg/L		06:09:51
1	Cr 267.716†	4459.6	4529.6	[100] µg/L		06:09:31
1	Cu 324.752†	16883.1	14317.7	[100] µg/L		06:09:31
1	Mn 257.610†	27841.9	28337.8	[100] µg/L		06:09:31
1	Mo 202.031†	927.2	944.4	[100] µg/L		06:09:51
1	Ni 231.604†	2065.9	1785.1	[100] µg/L		06:09:51
1	P 214.914†	254.2	229.0	[500] µg/L		06:09:51
1	Pb 220.353†	452.4	366.0	[100] µg/L		06:09:51
1	S 181.975 Axial†	57.5	44.0	[200] µg/L		06:09:51
1	Sb 206.836†	126.3	104.4	[100] µg/L		06:09:51
1	Se 196.026†	75.4	61.3	[100] µg/L		06:09:51
1	SiO2†	6082.1	4803.1	[1069.5] µg/L		06:09:31
1	Si 251.611†	6064.3	5853.9	[500] µg/L		06:09:31
1	Sn 189.927†	216.5	219.4	[100] µg/L		06:09:51
1	Ti 334.940†	39101.9	39328.7	[100] µg/L		06:09:31
1	Tl 190.801†	43.6	69.7	[100] µg/L		06:09:51
1	U 409.014†	1096.4	1107.6	[100] µg/L		06:09:31
1	V 292.402†	9125.9	9241.5	[100] µg/L		06:09:31
1	Zn 213.857†	4383.2	3959.6	[100] µg/L		06:09:31
2	Sc RADIAL	53858.6	53858.6	100 %		06:09:09
2	K 766.490 Radial†	1513.1	1356.3	[1000] µg/L		06:09:09
2	Sr 421.552†	9351.1	9278.7	[100] µg/L		06:09:09
2	Sc 361.383	1875296.8	1875296.8	99.590 %		06:09:57
2	Y 371.029	1289811.0	1289811.0	99.483 %		06:09:57
2	Ag 328.068†	11544.3	12179.7	[100] µg/L		06:10:03
2	As 188.979†	48.0	48.0	[100] µg/L		06:10:23
2	B 249.677†	2398.3	2132.7	[100] µg/L		06:10:03
2	Ba 233.527†	3632.6	3678.2	[100] µg/L		06:10:03
2	Be 313.107†	142167.8	146320.4	[100] µg/L		06:09:57
2	Cd 226.502†	3356.2	3508.4	[100] µg/L		06:10:03
2	Co 228.616†	1915.1	1940.7	[100] µg/L		06:10:23
2	Cr 267.716†	4429.7	4481.7	[100] µg/L		06:10:03
2	Cu 324.752†	16836.2	14203.3	[100] µg/L		06:10:03
2	Mn 257.610†	27635.4	28019.2	[100] µg/L		06:10:03
2	Mo 202.031†	923.6	937.1	[100] µg/L		06:10:23
2	Ni 231.604†	2051.6	1762.5	[100] µg/L		06:10:23
2	P 214.914†	259.5	233.3	[500] µg/L		06:10:23
2	Pb 220.353†	465.0	376.9	[100] µg/L		06:10:23
2	S 181.975 Axial†	57.2	43.4	[200] µg/L		06:10:23
2	Sb 206.836†	123.3	100.9	[100] µg/L		06:10:23
2	Se 196.026†	78.3	64.0	[100] µg/L		06:10:23
2	SiO2†	6074.9	4771.6	[1069.5] µg/L		06:10:03
2	Si 251.611†	6058.7	5824.0	[500] µg/L		06:10:03
2	Sn 189.927†	206.7	208.7	[100] µg/L		06:10:23
2	Ti 334.940†	38913.6	38983.4	[100] µg/L		06:10:03
2	Tl 190.801†	47.3	73.3	[100] µg/L		06:10:23
2	U 409.014†	1102.2	1109.1	[100] µg/L		06:10:03
2	V 292.402†	9065.6	9144.4	[100] µg/L		06:10:03

2	Zn 213.857†	4360.1	3918.9	[100] µg/L	06:10:03
3	Sc RADIAL	53875.0	53875.0	100 %	06:09:14
3	K 766.490 Radial†	1486.4	1329.2	[1000] µg/L	06:09:14
3	Sr 421.552†	9350.3	9275.0	[100] µg/L	06:09:14
3	Sc 361.383	1862114.0	1862114.0	98.890 %	06:10:30
3	Y 371.029	1282149.6	1282149.6	98.892 %	06:10:30
3	Ag 328.068†	11406.8	12122.7	[100] µg/L	06:10:35
3	As 188.979†	50.8	51.1	[100] µg/L	06:10:56
3	B 249.677†	2382.3	2133.6	[100] µg/L	06:10:35
3	Ba 233.527†	3617.4	3688.7	[100] µg/L	06:10:35
3	Be 313.107†	140512.4	145657.0	[100] µg/L	06:10:30
3	Cd 226.502†	3335.3	3511.1	[100] µg/L	06:10:35
3	Co 228.616†	1921.4	1960.7	[100] µg/L	06:10:56
3	Cr 267.716†	4400.1	4483.3	[100] µg/L	06:10:35
3	Cu 324.752†	16756.8	14242.7	[100] µg/L	06:10:35
3	Mn 257.610†	27520.9	28099.8	[100] µg/L	06:10:35
3	Mo 202.031†	909.0	928.9	[100] µg/L	06:10:56
3	Ni 231.604†	2047.5	1773.0	[100] µg/L	06:10:56
3	P 214.914†	261.9	237.6	[500] µg/L	06:10:56
3	Pb 220.353†	471.2	386.4	[100] µg/L	06:10:56
3	S 181.975 Axial†	57.5	44.1	[200] µg/L	06:10:56
3	Sb 206.836†	124.8	103.3	[100] µg/L	06:10:56
3	Se 196.026†	71.2	57.3	[100] µg/L	06:10:56
3	SiO2†	6036.4	4775.9	[1069.5] µg/L	06:10:35
3	Si 251.611†	6016.9	5824.8	[500] µg/L	06:10:35
3	Sn 189.927†	209.0	212.5	[100] µg/L	06:10:56
3	Ti 334.940†	38735.8	39080.2	[100] µg/L	06:10:35
3	Tl 190.801†	44.8	71.1	[100] µg/L	06:10:56
3	U 409.014†	1078.0	1092.5	[100] µg/L	06:10:35
3	V 292.402†	9007.1	9149.7	[100] µg/L	06:10:35
3	Zn 213.857†	4353.6	3943.2	[100] µg/L	06:10:35

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1868425.3	6609.23	0.35%	99.225 %	
Sc RADIAL	53945.8	137.06	0.25%	101 %	
Y 371.029	1285944.3	3831.21	0.30%	99.185 %	
Ag 328.068†	12191.9	76.02	0.62%	[100] µg/L	
As 188.979†	49.9	1.69	3.39%	[100] µg/L	
B 249.677†	2135.5	3.99	0.19%	[100] µg/L	
Ba 233.527†	3694.1	19.17	0.52%	[100] µg/L	
Be 313.107†	146465.6	890.19	0.61%	[100] µg/L	
Cd 226.502†	3533.7	41.55	1.18%	[100] µg/L	
Co 228.616†	1955.2	12.69	0.65%	[100] µg/L	
Cr 267.716†	4498.2	27.19	0.60%	[100] µg/L	
Cu 324.752†	14254.6	58.16	0.41%	[100] µg/L	
K 766.490 Radial†	1334.4	19.87	1.49%	[1000] µg/L	
Mn 257.610†	28152.3	165.65	0.59%	[100] µg/L	
Mo 202.031†	936.8	7.75	0.83%	[100] µg/L	
Ni 231.604†	1773.5	11.30	0.64%	[100] µg/L	
P 214.914†	233.3	4.29	1.84%	[500] µg/L	
Pb 220.353†	376.4	10.21	2.71%	[100] µg/L	
S 181.975 Axial†	43.8	0.37	0.85%	[200] µg/L	
Sb 206.836†	102.9	1.80	1.75%	[100] µg/L	
Se 196.026†	60.8	3.37	5.54%	[100] µg/L	
SiO2†	4783.5	17.10	0.36%	[1069.5] µg/L	
Si 251.611†	5834.2	17.03	0.29%	[500] µg/L	
Sn 189.927†	213.5	5.42	2.54%	[100] µg/L	
Sr 421.552†	9283.0	10.90	0.12%	[100] µg/L	
Ti 334.940†	39130.8	178.10	0.46%	[100] µg/L	
Tl 190.801†	71.4	1.80	2.52%	[100] µg/L	
U 409.014†	1103.1	9.21	0.83%	[100] µg/L	
V 292.402†	9178.6	54.59	0.59%	[100] µg/L	
Zn 213.857†	3940.6	20.49	0.52%	[100] µg/L	

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

Autosampler Location: 3
 Date Collected: 2/9/2010 06:11:05
 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	52880.2	52880.2	98.6 %	06:11:38
1	Al 396.153Radial†	6404.4	6514.6	[5000] µg/L	06:11:38
1	Ca 317.933Radial†	5050.9	4947.9	[5000] µg/L	06:11:58
1	K 766.490 Radial†	6767.5	6715.7	[5000] µg/L	06:11:38
1	Mg 279.077 IEC†	530.0	526.4	[5000] µg/L	06:11:58
1	Sr 421.552†	45504.1	46134.7	[500] µg/L	06:11:38
1	Sc 361.383	1865196.5	1865196.5	99.053 %	06:13:01
1	Y 371.029	1280309.1	1280309.1	98.750 %	06:13:01
1	Ag 328.068†	57929.9	59071.4	[500] µg/L	06:13:07
1	As 188.979†	239.3	241.3	[500] µg/L	06:13:27
1	B 249.677†	10567.0	10392.5	[500] µg/L	06:13:07
1	Ba 233.527†	17365.7	17562.3	[500] µg/L	06:13:07
1	Be 313.107†	702578.0	712859.0	[500] µg/L	06:13:01
1	Cd 226.502†	16401.1	16696.1	[500] µg/L	06:13:07
1	Co 228.616†	9276.6	9383.0	[500] µg/L	06:13:07
1	Cr 267.716†	21106.9	21342.4	[500] µg/L	06:13:07
1	Cu 324.752†	69183.6	67142.5	[500] µg/L	06:13:07
1	Mn 257.610†	131420.7	132946.5	[500] µg/L	06:13:07
1	Mo 202.031†	4541.8	4594.8	[500] µg/L	06:13:27
1	Ni 231.604†	8693.4	8478.9	[500] µg/L	06:13:07
1	P 214.914†	1130.9	1114.4	[2500] µg/L	06:13:27
1	Pb 220.353†	1843.0	1770.6	[500] µg/L	06:13:27
1	S 181.975 Axial†	222.9	211.0	[1000] µg/L	06:13:27
1	Sb 206.836†	515.7	497.7	[500] µg/L	06:13:27
1	Se 196.026†	328.9	317.3	[500] µg/L	06:13:27
1	SiO2†	23942.6	22843.1	[5347.5] µg/L	06:13:07
1	Si 251.611†	27997.2	28005.2	[2500] µg/L	06:13:07
1	Sn 189.927†	1039.8	1050.9	[500] µg/L	06:13:27
1	Ti 334.940†	192536.9	194286.3	[500] µg/L	06:13:01
1	Tl 190.801†	314.3	343.1	[500] µg/L	06:13:27
1	U 409.014†	5232.8	5285.1	[500] µg/L	06:13:07
1	V 292.402†	43372.5	43828.5	[500] µg/L	06:13:07
1	Zn 213.857†	18959.7	18681.7	[500] µg/L	06:13:07
2	Sc RADIAL	53943.1	53943.1	101 %	06:12:04
2	Al 396.153Radial†	6330.7	6313.2	[5000] µg/L	06:12:04
2	Ca 317.933Radial†	5023.5	4819.7	[5000] µg/L	06:12:24
2	K 766.490 Radial†	6680.9	6494.2	[5000] µg/L	06:12:04
2	Mg 279.077 IEC†	520.8	506.6	[5000] µg/L	06:12:24
2	Sr 421.552†	44988.4	44712.0	[500] µg/L	06:12:04
2	Sc 361.383	1874642.9	1874642.9	99.555 %	06:13:34
2	Y 371.029	1285152.5	1285152.5	99.124 %	06:13:34
2	Ag 328.068†	58751.5	59601.8	[500] µg/L	06:13:40
2	As 188.979†	240.9	241.8	[500] µg/L	06:14:00
2	B 249.677†	10732.7	10505.2	[500] µg/L	06:13:40
2	Ba 233.527†	17661.3	17770.9	[500] µg/L	06:13:40
2	Be 313.107†	694780.4	701452.5	[500] µg/L	06:13:34
2	Cd 226.502†	16707.8	16920.8	[500] µg/L	06:13:40
2	Co 228.616†	9462.4	9522.4	[500] µg/L	06:13:40
2	Cr 267.716†	21491.0	21620.8	[500] µg/L	06:13:40
2	Cu 324.752†	70198.4	67809.8	[500] µg/L	06:13:40
2	Mn 257.610†	133744.6	134612.2	[500] µg/L	06:13:40
2	Mo 202.031†	4638.4	4668.8	[500] µg/L	06:14:00
2	Ni 231.604†	8841.3	8583.2	[500] µg/L	06:13:40
2	P 214.914†	1142.0	1119.9	[2500] µg/L	06:14:00
2	Pb 220.353†	1870.5	1788.8	[500] µg/L	06:14:00
2	S 181.975 Axial†	224.5	211.5	[1000] µg/L	06:14:00
2	Sb 206.836†	524.0	503.5	[500] µg/L	06:14:00
2	Se 196.026†	320.7	307.4	[500] µg/L	06:14:00
2	SiO2†	24307.0	23087.3	[5347.5] µg/L	06:13:40

2	Si 251.611†	28499.9	28367.6	[2500]	µg/L	06:13:40
2	Sn 189.927†	1056.6	1062.4	[500]	µg/L	06:14:00
2	Ti 334.940†	190541.4	191302.5	[500]	µg/L	06:13:34
2	Tl 190.801†	313.9	341.1	[500]	µg/L	06:14:00
2	U 409.014†	5384.8	5411.1	[500]	µg/L	06:13:40
2	V 292.402†	44164.6	44403.5	[500]	µg/L	06:13:40
2	Zn 213.857†	19237.9	18864.7	[500]	µg/L	06:13:40
3	Sc RADIAL	53777.7	53777.7	100	%	06:12:29
3	Al 396.153Radial†	6435.9	6437.5	[5000]	µg/L	06:12:29
3	Ca 317.933Radial†	5005.2	4816.8	[5000]	µg/L	06:12:50
3	K 766.490 Radial†	6839.2	6672.6	[5000]	µg/L	06:12:29
3	Mg 279.077 IEC†	518.2	505.7	[5000]	µg/L	06:12:50
3	Sr 421.552†	45860.7	45719.9	[500]	µg/L	06:12:29
3	Sc 361.383	1829932.5	1829932.5	97.181	%	06:14:07
3	Y 371.029	1255504.2	1255504.2	96.837	%	06:14:07
3	Ag 328.068†	57632.5	59892.3	[500]	µg/L	06:14:13
3	As 188.979†	219.4	225.5	[500]	µg/L	06:14:33
3	B 249.677†	10533.3	10563.5	[500]	µg/L	06:14:13
3	Ba 233.527†	17123.6	17651.0	[500]	µg/L	06:14:13
3	Be 313.107†	692393.0	716047.1	[500]	µg/L	06:14:07
3	Cd 226.502†	16132.0	16738.3	[500]	µg/L	06:14:13
3	Co 228.616†	9077.0	9358.1	[500]	µg/L	06:14:13
3	Cr 267.716†	20346.8	20970.8	[500]	µg/L	06:14:13
3	Cu 324.752†	67671.5	66932.4	[500]	µg/L	06:14:13
3	Mn 257.610†	128275.8	132267.2	[500]	µg/L	06:14:13
3	Mo 202.031†	4020.9	4147.2	[500]	µg/L	06:14:33
3	Ni 231.604†	8525.5	8475.3	[500]	µg/L	06:14:13
3	P 214.914†	1031.9	1034.6	[2500]	µg/L	06:14:33
3	Pb 220.353†	1694.5	1653.7	[500]	µg/L	06:14:33
3	S 181.975 Axial†	202.9	194.8	[1000]	µg/L	06:14:33
3	Sb 206.836†	463.9	454.5	[500]	µg/L	06:14:33
3	Se 196.026†	301.2	295.2	[500]	µg/L	06:14:33
3	SiO2†	23680.9	23039.6	[5347.5]	µg/L	06:14:13
3	Si 251.611†	27704.0	28248.1	[2500]	µg/L	06:14:13
3	Sn 189.927†	912.2	939.7	[500]	µg/L	06:14:33
3	Ti 334.940†	189462.7	194868.7	[500]	µg/L	06:14:07
3	Tl 190.801†	289.7	323.9	[500]	µg/L	06:14:33
3	U 409.014†	5019.4	5167.3	[500]	µg/L	06:14:13
3	V 292.402†	42242.5	43509.6	[500]	µg/L	06:14:13
3	Zn 213.857†	18515.8	18593.7	[500]	µg/L	06:14:13

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1856590.6	23564.78	1.27%	98.596 %
Sc RADIAL	53533.7	571.95	1.07%	99.8 %
Y 371.029	1273655.3	15904.73	1.25%	98.237 %
Ag 328.068†	59521.8	416.30	0.70%	[500] µg/L
Al 396.153Radial†	6421.8	101.62	1.58%	[5000] µg/L
As 188.979†	236.2	9.26	3.92%	[500] µg/L
B 249.677†	10487.1	86.91	0.83%	[500] µg/L
Ba 233.527†	17661.4	104.68	0.59%	[500] µg/L
Be 313.107†	710119.6	7673.29	1.08%	[500] µg/L
Ca 317.933Radial†	4861.5	74.87	1.54%	[5000] µg/L
Cd 226.502†	16785.1	119.44	0.71%	[500] µg/L
Co 228.616†	9421.2	88.57	0.94%	[500] µg/L
Cr 267.716†	21311.3	326.09	1.53%	[500] µg/L
Cu 324.752†	67294.9	458.14	0.68%	[500] µg/L
K 766.490 Radial†	6627.5	117.42	1.77%	[5000] µg/L
Mg 279.077 IEC†	512.9	11.70	2.28%	[5000] µg/L
Mn 257.610†	133275.3	1206.60	0.91%	[500] µg/L
Mo 202.031†	4470.3	282.21	6.31%	[500] µg/L
Ni 231.604†	8512.5	61.28	0.72%	[500] µg/L
P 214.914†	1089.6	47.76	4.38%	[2500] µg/L
Pb 220.353†	1737.7	73.34	4.22%	[500] µg/L
S 181.975 Axial†	205.8	9.51	4.62%	[1000] µg/L
Sb 206.836†	485.3	26.76	5.51%	[500] µg/L
Se 196.026†	306.6	11.08	3.61%	[500] µg/L
SiO2†	22990.0	129.47	0.56%	[5347.5] µg/L
Si 251.611†	28207.0	184.71	0.65%	[2500] µg/L

Sn 189.927†	1017.7	67.75	6.66%	[500] µg/L
Sr 421.552†	45522.2	731.67	1.61%	[500] µg/L
Ti 334.940†	193485.8	1913.14	0.99%	[500] µg/L
Tl 190.801†	336.0	10.59	3.15%	[500] µg/L
U 409.014†	5287.9	121.92	2.31%	[500] µg/L
V 292.402†	43913.9	453.05	1.03%	[500] µg/L
Zn 213.857†	18713.4	138.22	0.74%	[500] µg/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 2/9/2010 06:14:42

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	53674.3	53674.3	100 %	06:15:15
1	Al 396.153Radial†	13149.0	13160.8	[10000] µg/L	06:15:15
1	Ca 317.933Radial†	10119.8	9939.3	[10000] µg/L	06:15:35
1	Fe 238.204 Radial†	1138.1	1123.9	[10000] µg/L	06:15:35
1	K 766.490 Radial†	13519.5	13363.9	[10000] µg/L	06:15:15
1	Mg 279.077 IEC†	1055.4	1043.6	[10000] µg/L	06:15:35
1	Na 589.592 Radial†	29988.9	29478.4	[10000] µg/L	06:15:15
1	Sr 421.552†	92432.0	92364.0	[1000] µg/L	06:15:15
1	Sc 361.383	1853610.3	1853610.3	98.438 %	06:16:39
1	Y 371.029	1269502.8	1269502.8	97.917 %	06:16:39
1	Ag 328.068†	118490.1	120957.9	[1000] µg/L	06:16:45
1	As 188.979†	498.3	506.0	[1000] µg/L	06:17:05
1	B 249.677†	21695.4	21764.2	[1000] µg/L	06:16:45
1	Ba 233.527†	35881.1	36481.0	[1000] µg/L	06:16:45
1	Be 313.107†	1444081.9	1470561.8	[1000] µg/L	06:16:39
1	Cd 226.502†	33744.8	34418.5	[1000] µg/L	06:16:45
1	Co 228.616†	19105.0	19425.9	[1000] µg/L	06:16:45
1	Cr 267.716†	43663.8	44390.3	[1000] µg/L	06:16:45
1	Cu 324.752†	139044.1	138548.0	[1000] µg/L	06:16:45
1	Mn 257.610†	276137.9	280789.3	[1000] µg/L	06:16:39
1	Mo 202.031†	9264.0	9420.6	[1000] µg/L	06:16:45
1	Ni 231.604†	17522.6	17503.1	[1000] µg/L	06:16:45
1	P 214.914†	2300.5	2309.7	[5000] µg/L	06:17:05
1	Pb 220.353†	3695.1	3663.7	[1000] µg/L	06:17:05
1	S 181.975 Axial†	433.9	426.7	[2000] µg/L	06:17:05
1	Sb 206.836†	1022.8	1016.2	[1000] µg/L	06:17:05
1	Se 196.026†	654.7	650.4	[1000] µg/L	06:17:05
1	SiO2†	47883.9	47315.3	[10695] µg/L	06:16:45
1	Si 251.611†	57254.1	57903.0	[5000] µg/L	06:16:45
1	Sn 189.927†	2131.1	2166.0	[1000] µg/L	06:17:05
1	Ti 334.940†	393445.5	399597.7	[1000] µg/L	06:16:39
1	Tl 190.801†	652.9	689.1	[1000] µg/L	06:17:05
1	U 409.014†	10989.2	11165.8	[1000] µg/L	06:16:45
1	V 292.402†	89469.1	90930.2	[1000] µg/L	06:16:45
1	Zn 213.857†	38227.7	38375.1	[1000] µg/L	06:16:45
2	Sc RADIAL	53217.0	53217.0	99.2 %	06:15:41
2	Al 396.153Radial†	13114.2	13238.7	[10000] µg/L	06:15:41
2	Ca 317.933Radial†	10035.5	9941.2	[10000] µg/L	06:16:01
2	Fe 238.204 Radial†	1129.0	1124.5	[10000] µg/L	06:16:01
2	K 766.490 Radial†	13470.9	13431.0	[10000] µg/L	06:15:41
2	Mg 279.077 IEC†	1033.9	1031.0	[10000] µg/L	06:16:01
2	Na 589.592 Radial†	29865.3	29611.4	[10000] µg/L	06:15:41
2	Sr 421.552†	92244.6	92969.0	[1000] µg/L	06:15:41
2	Sc 361.383	1864164.2	1864164.2	98.999 %	06:17:12
2	Y 371.029	1278058.4	1278058.4	98.577 %	06:17:12
2	Ag 328.068†	119475.2	121271.5	[1000] µg/L	06:17:18
2	As 188.979†	498.0	502.8	[1000] µg/L	06:17:39
2	B 249.677†	21849.2	21794.8	[1000] µg/L	06:17:18
2	Ba 233.527†	36166.9	36563.4	[1000] µg/L	06:17:18
2	Be 313.107†	1449499.6	1467728.9	[1000] µg/L	06:17:12
2	Cd 226.502†	34182.4	34666.5	[1000] µg/L	06:17:18
2	Co 228.616†	19251.5	19464.0	[1000] µg/L	06:17:18
2	Cr 267.716†	44024.0	44503.1	[1000] µg/L	06:17:18
2	Cu 324.752†	140161.2	138876.7	[1000] µg/L	06:17:18
2	Mn 257.610†	277122.0	280195.1	[1000] µg/L	06:17:12
2	Mo 202.031†	9360.8	9465.2	[1000] µg/L	06:17:18
2	Ni 231.604†	17703.8	17585.4	[1000] µg/L	06:17:18
2	P 214.914†	2301.4	2297.4	[5000] µg/L	06:17:39
2	Pb 220.353†	3710.8	3658.3	[1000] µg/L	06:17:39

2	S 181.975 Axial†	441.1	431.5	[2000]	µg/L	06:17:39
2	Sb 206.836†	1028.2	1015.8	[1000]	µg/L	06:17:39
2	Se 196.026†	648.9	640.7	[1000]	µg/L	06:17:39
2	SiO2†	48221.9	47381.4	[10695]	µg/L	06:17:18
2	Si 251.611†	57806.8	58131.9	[5000]	µg/L	06:17:18
2	Sn 189.927†	2139.4	2162.2	[1000]	µg/L	06:17:39
2	Ti 334.940†	394341.0	398239.4	[1000]	µg/L	06:17:12
2	Tl 190.801†	657.1	689.5	[1000]	µg/L	06:17:39
2	U 409.014†	11017.1	11130.8	[1000]	µg/L	06:17:18
2	V 292.402†	90218.8	91172.9	[1000]	µg/L	06:17:18
2	Zn 213.857†	38590.2	38521.4	[1000]	µg/L	06:17:18
3	Sc RADIAL	54256.6	54256.6	101	%	06:16:07
3	Al 396.153Radial†	12909.3	12782.6	[10000]	µg/L	06:16:07
3	Ca 317.933Radial†	10115.6	9826.6	[10000]	µg/L	06:16:27
3	Fe 238.204 Radial†	1136.9	1110.5	[10000]	µg/L	06:16:27
3	K 766.490 Radial†	13420.7	13121.1	[10000]	µg/L	06:16:07
3	Mg 279.077 IEC†	1053.4	1030.4	[10000]	µg/L	06:16:27
3	Na 589.592 Radial†	29579.9	28752.2	[10000]	µg/L	06:16:07
3	Sr 421.552†	90980.6	89936.8	[1000]	µg/L	06:16:07
3	Sc 361.383	1834567.3	1834567.3	97.427	%	06:17:46
3	Y 371.029	1257555.3	1257555.3	96.995	%	06:17:46
3	Ag 328.068†	112878.1	116447.2	[1000]	µg/L	06:17:52
3	As 188.979†	427.4	438.4	[1000]	µg/L	06:18:12
3	B 249.677†	20509.3	20775.6	[1000]	µg/L	06:17:52
3	Ba 233.527†	33416.2	34329.4	[1000]	µg/L	06:17:52
3	Be 313.107†	1397025.6	1437490.1	[1000]	µg/L	06:17:46
3	Cd 226.502†	31471.9	32441.5	[1000]	µg/L	06:17:52
3	Co 228.616†	17666.5	18150.8	[1000]	µg/L	06:17:52
3	Cr 267.716†	39562.1	40640.8	[1000]	µg/L	06:17:52
3	Cu 324.752†	128862.5	129563.7	[1000]	µg/L	06:17:52
3	Mn 257.610†	267430.9	274764.1	[1000]	µg/L	06:17:46
3	Mo 202.031†	8501.9	8736.1	[1000]	µg/L	06:17:52
3	Ni 231.604†	16193.4	16323.5	[1000]	µg/L	06:17:52
3	P 214.914†	1981.6	2006.7	[5000]	µg/L	06:18:12
3	Pb 220.353†	3242.1	3237.6	[1000]	µg/L	06:18:12
3	S 181.975 Axial†	386.2	382.4	[2000]	µg/L	06:18:12
3	Sb 206.836†	903.8	904.8	[1000]	µg/L	06:18:12
3	Se 196.026†	572.8	573.2	[1000]	µg/L	06:18:12
3	SiO2†	45081.0	44943.4	[10695]	µg/L	06:17:52
3	Si 251.611†	53950.0	55115.3	[5000]	µg/L	06:17:52
3	Sn 189.927†	1769.9	1817.8	[1000]	µg/L	06:18:12
3	Ti 334.940†	378654.3	388564.6	[1000]	µg/L	06:17:46
3	Tl 190.801†	590.5	631.9	[1000]	µg/L	06:18:12
3	U 409.014†	9934.7	10199.4	[1000]	µg/L	06:17:52
3	V 292.402†	82395.7	84613.4	[1000]	µg/L	06:17:52
3	Zn 213.857†	35447.0	35924.0	[1000]	µg/L	06:17:52

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	1850780.6	14999.99	0.81%	98.288	%
Sc RADIAL	53716.0	521.05	0.97%	100	%
Y 371.029	1268372.2	10298.21	0.81%	97.829	%
Ag 328.068†	119558.9	2699.36	2.26%	[1000]	µg/L
Al 396.153Radial†	13060.7	243.94	1.87%	[10000]	µg/L
As 188.979†	482.4	38.12	7.90%	[1000]	µg/L
B 249.677†	21444.9	579.85	2.70%	[1000]	µg/L
Ba 233.527†	35791.2	1266.70	3.54%	[1000]	µg/L
Be 313.107†	1458593.6	18330.95	1.26%	[1000]	µg/L
Ca 317.933Radial†	9902.4	65.64	0.66%	[10000]	µg/L
Cd 226.502†	33842.1	1219.34	3.60%	[1000]	µg/L
Co 228.616†	19013.6	747.42	3.93%	[1000]	µg/L
Cr 267.716†	43178.1	2198.06	5.09%	[1000]	µg/L
Cu 324.752†	135662.8	5284.55	3.90%	[1000]	µg/L
Fe 238.204 Radial†	1119.6	7.94	0.71%	[10000]	µg/L
K 766.490 Radial†	13305.3	163.03	1.23%	[10000]	µg/L
Mg 279.077 IEC†	1035.0	7.48	0.72%	[10000]	µg/L
Mn 257.610†	278582.8	3320.41	1.19%	[1000]	µg/L
Mo 202.031†	9207.3	408.68	4.44%	[1000]	µg/L
Na 589.592 Radial†	29280.7	462.50	1.58%	[10000]	µg/L

Ni 231.604†	17137.3	705.99	4.12%	[1000]	µg/L
P 214.914†	2204.6	171.51	7.78%	[5000]	µg/L
Pb 220.353†	3519.9	244.44	6.94%	[1000]	µg/L
S 181.975 Axial†	413.5	27.07	6.55%	[2000]	µg/L
Sb 206.836†	978.9	64.20	6.56%	[1000]	µg/L
Se 196.026†	621.4	42.08	6.77%	[1000]	µg/L
SiO2†	46546.7	1388.93	2.98%	[10695]	µg/L
Si 251.611†	57050.0	1679.48	2.94%	[5000]	µg/L
Sn 189.927†	2048.6	199.95	9.76%	[1000]	µg/L
Sr 421.552†	91756.6	1604.71	1.75%	[1000]	µg/L
Ti 334.940†	395467.2	6016.31	1.52%	[1000]	µg/L
Tl 190.801†	670.2	33.15	4.95%	[1000]	µg/L
U 409.014†	10832.0	548.13	5.06%	[1000]	µg/L
V 292.402†	88905.5	3719.04	4.18%	[1000]	µg/L
Zn 213.857†	37606.8	1459.19	3.88%	[1000]	µg/L

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

Autosampler Location: 5
 Date Collected: 2/9/2010 06:18:21
 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	53406.8	53406.8	99.5 %	06:18:54
1	Al 396.153Radial†	66952.2	67281.4	[50000] µg/L	06:18:54
1	Ca 317.933Radial†	51756.9	51821.7	[50000] µg/L	06:18:54
1	Fe 238.204 Radial†	2267.6	2264.4	[20000] µg/L	06:19:14
1	Mg 279.077 IEC†	5223.0	5236.0	[50000] µg/L	06:19:14
1	Na 589.592 Radial†	60201.0	59981.9	[20000] µg/L	06:18:54
1	Sc 361.383	1846169.4	1846169.4	98.043 %	06:20:17
1	Y 371.029	1259106.4	1259106.4	97.115 %	06:20:17
2	Sc RADIAL	52373.3	52373.3	97.6 %	06:19:19
2	Al 396.153Radial†	67183.6	68845.8	[50000] µg/L	06:19:19
2	Ca 317.933Radial†	51546.6	52632.4	[50000] µg/L	06:19:19
2	Fe 238.204 Radial†	2258.4	2300.0	[20000] µg/L	06:19:40
2	Mg 279.077 IEC†	5194.3	5310.1	[50000] µg/L	06:19:40
2	Na 589.592 Radial†	60318.1	61295.4	[20000] µg/L	06:19:19
2	Sc 361.383	1839557.3	1839557.3	97.692 %	06:20:25
2	Y 371.029	1255385.4	1255385.4	96.828 %	06:20:25
3	Sc RADIAL	53345.2	53345.2	99.4 %	06:19:45
3	Al 396.153Radial†	65997.7	66398.9	[50000] µg/L	06:19:45
3	Ca 317.933Radial†	50862.2	50981.9	[50000] µg/L	06:19:45
3	Fe 238.204 Radial†	2266.0	2265.4	[20000] µg/L	06:20:06
3	Mg 279.077 IEC†	5217.6	5236.6	[50000] µg/L	06:20:06
3	Na 589.592 Radial†	59682.8	59530.5	[20000] µg/L	06:19:45
3	Sc 361.383	1843523.7	1843523.7	97.902 %	06:20:33
3	Y 371.029	1257339.8	1257339.8	96.979 %	06:20:33

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1843083.5	3327.96	0.18%	97.879 %
Sc RADIAL	53041.8	579.72	1.09%	98.9 %
Y 371.029	1257277.2	1861.28	0.15%	96.974 %
Al 396.153Radial†	67508.7	1239.14	1.84%	[50000] µg/L
Ca 317.933Radial†	51812.0	825.27	1.59%	[50000] µg/L
Fe 238.204 Radial†	2276.6	20.24	0.89%	[20000] µg/L
Mg 279.077 IEC†	5260.9	42.62	0.81%	[50000] µg/L
Na 589.592 Radial†	60269.3	916.85	1.52%	[20000] µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	119.5	0.00000	0.999997	
Al 396.153Radial	3	Lin Thru 0	0.0	1.348	0.00000	0.999970	
As 188.979	3	Lin Thru 0	0.0	0.4806	0.00000	0.999960	
B 249.677	3	Lin Thru 0	0.0	21.35	0.00000	0.999961	
Ba 233.527	3	Lin Thru 0	0.0	35.71	0.00000	0.999982	
Be 313.107	3	Lin Thru 0	0.0	1451	0.00000	0.999944	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.034	0.00000	0.999947	
Cd 226.502	3	Lin Thru 0	0.0	33.80	0.00000	0.999987	
Co 228.616	3	Lin Thru 0	0.0	18.98	0.00000	0.999990	
Cr 267.716	3	Lin Thru 0	0.0	43.08	0.00000	0.999979	
Cu 324.752	3	Lin Thru 0	0.0	135.5	0.00000	0.999984	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1135	0.00000	0.999978	
K 766.490 Radial	3	Lin Thru 0	0.0	1.330	0.00000	0.999999	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1051	0.00000	0.999992	
Mn 257.610	3	Lin Thru 0	0.0	276.2	0.00000	0.999848	
Mo 202.031	3	Lin Thru 0	0.0	9.156	0.00000	0.999930	
Na 589.592 Radia	2	Lin Thru 0	0.0	2.996	0.00000	0.999935	

Ni 231.604	3	Lin Thru 0	0.0	17.12	0.00000	0.999991
P 214.914	3	Lin Thru 0	0.0	0.4401	0.00000	0.999975
Pb 220.353	3	Lin Thru 0	0.0	3.513	0.00000	0.999967
S 181.975 Axial	3	Lin Thru 0	0.0	0.2067	0.00000	0.999983
Sb 206.836	3	Lin Thru 0	0.0	0.9776	0.00000	0.999983
Se 196.026	3	Lin Thru 0	0.0	0.6197	0.00000	0.999985
SiO2	3	Lin Thru 0	0.0	4.343	0.00000	0.999985
Si 251.611	3	Lin Thru 0	0.0	11.39	0.00000	0.999988
Sn 189.927	3	Lin Thru 0	0.0	2.047	0.00000	0.999989
Sr 421.552	3	Lin Thru 0	0.0	91.62	0.00000	0.999995
Ti 334.940	3	Lin Thru 0	0.0	393.7	0.00000	0.999963
Tl 190.801	3	Lin Thru 0	0.0	0.6709	0.00000	0.999983
U 409.014	3	Lin Thru 0	0.0	10.78	0.00000	0.999953
V 292.402	3	Lin Thru 0	0.0	88.71	0.00000	0.999983
Zn 213.857	3	Lin Thru 0	0.0	37.59	0.00000	0.999989

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 2/9/2010 06:20:42

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	52529.2	52529.2	97.9 %		06:21:16
1	Al 396.153Radial†	6577.7	6735.0	4985.6 µg/L	4985.6 ppb	06:21:36
1	Ca 317.933Radial†	5142.7	5075.9	4909.6 µg/L	4909.6 ppb	06:21:36
1	Fe 238.204 Radial†	581.9	580.5	5127.8 µg/L	5127.8 ppb	06:21:36
1	K 766.490 Radial†	3522.8	3447.3	2592.8 µg/L	2592.8 ppb	06:21:16
1	Mg 279.077 IEC†	542.6	542.8	5167.2 µg/L	5167.2 ppb	06:21:36
1	Na 589.592 Radial†	7721.8	7386.9	2465.3 µg/L	2465.3 ppb	06:21:16
1	Sr 421.552†	48121.9	49117.2	536.07 µg/L	536.07 ppb	06:21:16
1	Sc 361.383	1854146.5	1854146.5	98.467 %		06:22:40
1	Y 371.029	1272339.1	1272339.1	98.135 %		06:22:40
1	Ag 328.068†	30011.6	31066.8	263.78 µg/L	263.78 ppb	06:22:46
1	As 188.979†	234.2	237.6	493.40 µg/L	493.40 ppb	06:23:06
1	B 249.677†	11312.0	11212.8	523.31 µg/L	523.31 ppb	06:22:46
1	Ba 233.527†	18180.6	18494.3	518.88 µg/L	518.88 ppb	06:22:46
1	Be 313.107†	371365.1	380715.3	262.19 µg/L	262.19 ppb	06:22:40
1	Cd 226.502†	16850.9	17251.7	510.34 µg/L	510.34 ppb	06:22:46
1	Co 228.616†	9736.1	9905.5	521.23 µg/L	521.23 ppb	06:22:46
1	Cr 267.716†	21346.3	21712.5	504.31 µg/L	504.31 ppb	06:22:46
1	Cu 324.752†	72376.1	70800.9	523.21 µg/L	523.21 ppb	06:22:46
1	Mn 257.610†	139360.0	141800.2	513.84 µg/L	513.84 ppb	06:22:40
1	Mo 202.031†	4903.1	4989.1	545.12 µg/L	545.12 ppb	06:23:06
1	Ni 231.604†	8897.5	8738.5	509.88 µg/L	509.88 ppb	06:22:46
1	P 214.914†	1165.6	1156.5	2578.2 µg/L	2578.2 ppb	06:23:06
1	Pb 220.353†	1879.0	1818.2	517.81 µg/L	517.81 ppb	06:23:06
1	S 181.975 Axial†	529.6	523.8	2534.5 µg/L	2534.5 ppb	06:23:06
1	Sb 206.836†	520.9	506.1	520.44 µg/L	520.44 ppb	06:23:06
1	Se 196.026†	1590.5	1600.6	2590.8 µg/L	2590.8 ppb	06:23:06
1	SiO2†	47054.2	46458.7	10698 µg/L	10698 ppb	06:22:46
1	Si 251.611†	56226.7	56842.7	4992.0 µg/L	4992.0 ppb	06:22:46
1	Sn 189.927†	1131.7	1150.5	562.16 µg/L	562.16 ppb	06:23:06
1	Ti 334.940†	193818.0	196745.8	499.34 µg/L	499.34 ppb	06:22:40
1	Tl 190.801†	325.5	356.4	537.14 µg/L	537.14 ppb	06:23:06
1	U 409.014†	5317.1	5402.3	500.00 µg/L	500.00 ppb	06:22:46
1	V 292.402†	45320.9	46068.3	525.77 µg/L	525.77 ppb	06:22:46
1	Zn 213.857†	19718.6	19566.4	516.96 µg/L	516.96 ppb	06:22:46
2	Sc RADIAL	52816.2	52816.2	98.4 %		06:21:42
2	Al 396.153Radial†	6498.0	6617.6	4898.6 µg/L	4898.6 ppb	06:22:02
2	Ca 317.933Radial†	5086.2	4990.0	4826.5 µg/L	4826.5 ppb	06:22:02
2	Fe 238.204 Radial†	571.1	566.4	5003.0 µg/L	5003.0 ppb	06:22:02
2	K 766.490 Radial†	3453.3	3357.1	2525.0 µg/L	2525.0 ppb	06:21:42
2	Mg 279.077 IEC†	534.5	531.6	5060.1 µg/L	5060.1 ppb	06:22:02
2	Na 589.592 Radial†	7695.1	7317.0	2442.0 µg/L	2442.0 ppb	06:21:42
2	Sr 421.552†	47919.4	48644.4	530.91 µg/L	530.91 ppb	06:21:42
2	Sc 361.383	1858821.6	1858821.6	98.715 %		06:23:13
2	Y 371.029	1276788.4	1276788.4	98.479 %		06:23:13
2	Ag 328.068†	29954.2	30932.0	262.64 µg/L	262.64 ppb	06:23:19
2	As 188.979†	231.8	234.6	487.15 µg/L	487.15 ppb	06:23:39
2	B 249.677†	11332.8	11204.9	523.00 µg/L	523.00 ppb	06:23:19
2	Ba 233.527†	18210.7	18478.4	518.43 µg/L	518.43 ppb	06:23:19
2	Be 313.107†	371341.2	379742.5	261.52 µg/L	261.52 ppb	06:23:13
2	Cd 226.502†	17004.0	17363.7	513.67 µg/L	513.67 ppb	06:23:19
2	Co 228.616†	9733.3	9877.7	519.77 µg/L	519.77 ppb	06:23:19
2	Cr 267.716†	21418.7	21731.3	504.74 µg/L	504.74 ppb	06:23:19
2	Cu 324.752†	72320.1	70559.3	521.41 µg/L	521.41 ppb	06:23:19
2	Mn 257.610†	139706.8	141795.5	513.81 µg/L	513.81 ppb	06:23:13
2	Mo 202.031†	4869.1	4942.1	539.98 µg/L	539.98 ppb	06:23:39
2	Ni 231.604†	8956.6	8775.6	512.05 µg/L	512.05 ppb	06:23:19
2	P 214.914†	1154.3	1142.1	2545.6 µg/L	2545.6 ppb	06:23:39
2	Pb 220.353†	1861.9	1796.1	511.50 µg/L	511.50 ppb	06:23:39

2	S 181.975 Axial†	530.9	523.8	2534.3 µg/L	2534.3 ppb	06:23:39
2	Sb 206.836†	519.2	503.0	517.23 µg/L	517.23 ppb	06:23:39
2	Se 196.026†	1587.8	1593.7	2579.5 µg/L	2579.5 ppb	06:23:39
2	SiO2†	47235.4	46522.0	10713 µg/L	10713 ppb	06:23:19
2	Si 251.611†	56333.9	56807.7	4988.9 µg/L	4988.9 ppb	06:23:19
2	Sn 189.927†	1121.2	1137.0	555.55 µg/L	555.55 ppb	06:23:39
2	Ti 334.940†	193472.2	195900.5	497.20 µg/L	497.20 ppb	06:23:13
2	Tl 190.801†	324.1	354.1	533.75 µg/L	533.75 ppb	06:23:39
2	U 409.014†	5259.9	5330.6	493.38 µg/L	493.38 ppb	06:23:19
2	V 292.402†	45427.6	46060.5	525.63 µg/L	525.63 ppb	06:23:19
2	Zn 213.857†	19751.8	19549.8	516.52 µg/L	516.52 ppb	06:23:19
3	Sc RADIAL	53317.3	53317.3	99.4 %		06:22:08
3	Al 396.153Radial†	6509.8	6567.4	4862.9 µg/L	4862.9 ppb	06:22:28
3	Ca 317.933Radial†	5076.4	4931.6	4770.0 µg/L	4770.0 ppb	06:22:28
3	Fe 238.204 Radial†	576.1	565.9	4998.2 µg/L	4998.2 ppb	06:22:28
3	K 766.490 Radial†	3493.8	3364.9	2530.8 µg/L	2530.8 ppb	06:22:08
3	Mg 279.077 IEC†	537.7	529.7	5041.4 µg/L	5041.4 ppb	06:22:28
3	Na 589.592 Radial†	7694.5	7242.9	2417.2 µg/L	2417.2 ppb	06:22:08
3	Sr 421.552†	48075.5	48344.0	527.64 µg/L	527.64 ppb	06:22:08
3	Sc 361.383	1856402.6	1856402.6	98.586 %		06:23:46
3	Y 371.029	1272723.7	1272723.7	98.165 %		06:23:46
3	Ag 328.068†	28710.2	29709.7	252.16 µg/L	252.16 ppb	06:23:52
3	As 188.979†	206.7	209.4	434.93 µg/L	434.93 ppb	06:24:12
3	B 249.677†	10828.4	10708.2	499.67 µg/L	499.67 ppb	06:23:52
3	Ba 233.527†	17165.4	17442.1	489.34 µg/L	489.34 ppb	06:23:52
3	Be 313.107†	352463.4	361084.2	248.67 µg/L	248.67 ppb	06:23:46
3	Cd 226.502†	15863.3	16229.1	480.06 µg/L	480.06 ppb	06:23:52
3	Co 228.616†	9094.3	9242.4	486.29 µg/L	486.29 ppb	06:23:52
3	Cr 267.716†	19564.6	19878.9	461.72 µg/L	461.72 ppb	06:23:52
3	Cu 324.752†	67699.3	65967.7	487.52 µg/L	487.52 ppb	06:23:52
3	Mn 257.610†	133012.8	135189.9	489.89 µg/L	489.89 ppb	06:23:46
3	Mo 202.031†	4197.8	4267.7	466.32 µg/L	466.32 ppb	06:24:12
3	Ni 231.604†	8355.8	8178.1	477.18 µg/L	477.18 ppb	06:23:52
3	P 214.914†	1023.3	1010.7	2249.3 µg/L	2249.3 ppb	06:24:12
3	Pb 220.353†	1674.3	1608.3	457.93 µg/L	457.93 ppb	06:24:12
3	S 181.975 Axial†	483.3	476.2	2304.1 µg/L	2304.1 ppb	06:24:12
3	Sb 206.836†	465.4	449.2	461.40 µg/L	461.40 ppb	06:24:12
3	Se 196.026†	1424.9	1430.6	2316.3 µg/L	2316.3 ppb	06:24:12
3	SiO2†	44833.8	44148.4	10166 µg/L	10166 ppb	06:23:52
3	Si 251.611†	53376.2	53881.9	4732.0 µg/L	4732.0 ppb	06:23:52
3	Sn 189.927†	953.5	968.2	473.11 µg/L	473.11 ppb	06:24:12
3	Ti 334.940†	183429.2	185968.9	471.98 µg/L	471.98 ppb	06:23:46
3	Tl 190.801†	300.6	330.7	498.56 µg/L	498.56 ppb	06:24:12
3	U 409.014†	4828.1	4899.6	453.41 µg/L	453.41 ppb	06:23:52
3	V 292.402†	42099.6	42744.8	487.54 µg/L	487.54 ppb	06:23:52
3	Zn 213.857†	18485.5	18291.4	483.25 µg/L	483.25 ppb	06:23:52

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1856456.9	98.589 %	0.1242			0.13%
Sc RADIAL	52887.6	98.6 %	0.74			0.75%
Y 371.029	1273950.4	98.260 %	0.1901			0.19%
Ag 328.068†	30569.5	259.53 µg/L	6.402	259.53 ppb	6.402	2.47%
QC value within limits for Ag 328.068 Recovery = 103.81%						
Al 396.153Radial†	6640.0	4915.7 µg/L	63.11	4915.7 ppb	63.11	1.28%
QC value within limits for Al 396.153Radial Recovery = 98.31%						
As 188.979†	227.2	471.83 µg/L	32.106	471.83 ppb	32.106	6.80%
QC value within limits for As 188.979 Recovery = 94.37%						
B 249.677†	11042.0	515.33 µg/L	13.557	515.33 ppb	13.557	2.63%
QC value within limits for B 249.677 Recovery = 103.07%						
Ba 233.527†	18138.3	508.88 µg/L	16.925	508.88 ppb	16.925	3.33%
QC value within limits for Ba 233.527 Recovery = 101.78%						
Be 313.107†	373847.3	257.46 µg/L	7.619	257.46 ppb	7.619	2.96%
QC value within limits for Be 313.107 Recovery = 102.98%						
Ca 317.933Radial†	4999.2	4835.4 µg/L	70.24	4835.4 ppb	70.24	1.45%
QC value within limits for Ca 317.933Radial Recovery = 96.71%						
Cd 226.502†	16948.2	501.36 µg/L	18.514	501.36 ppb	18.514	3.69%
QC value within limits for Cd 226.502 Recovery = 100.27%						
Co 228.616†	9675.2	509.10 µg/L	19.764	509.10 ppb	19.764	3.88%

QC value within limits for Co 228.616 Recovery = 101.82%							
Cr 267.716†	21107.6	490.26 µg/L	24.713	490.26 ppb	24.713	5.04%	
QC value within limits for Cr 267.716 Recovery = 98.05%							
Cu 324.752†	69109.3	510.71 µg/L	20.104	510.71 ppb	20.104	3.94%	
QC value within limits for Cu 324.752 Recovery = 102.14%							
Fe 238.204 Radial†	570.9	5043.0 µg/L	73.47	5043.0 ppb	73.47	1.46%	
QC value within limits for Fe 238.204 Radial Recovery = 100.86%							
K 766.490 Radial†	3389.8	2549.5 µg/L	37.58	2549.5 ppb	37.58	1.47%	
QC value within limits for K 766.490 Radial Recovery = 101.98%							
Mg 279.077 IEC†	534.7	5089.6 µg/L	67.85	5089.6 ppb	67.85	1.33%	
QC value within limits for Mg 279.077 IEC Recovery = 101.79%							
Mn 257.610†	139595.2	505.84 µg/L	13.815	505.84 ppb	13.815	2.73%	
QC value within limits for Mn 257.610 Recovery = 101.17%							
Mo 202.031†	4733.0	517.14 µg/L	44.089	517.14 ppb	44.089	8.53%	
QC value within limits for Mo 202.031 Recovery = 103.43%							
Na 589.592 Radial†	7315.6	2441.5 µg/L	24.03	2441.5 ppb	24.03	0.98%	
QC value within limits for Na 589.592 Radial Recovery = 97.66%							
Ni 231.604†	8564.1	499.70 µg/L	19.532	499.70 ppb	19.532	3.91%	
QC value within limits for Ni 231.604 Recovery = 99.94%							
P 214.914†	1103.1	2457.7 µg/L	181.19	2457.7 ppb	181.19	7.37%	
QC value within limits for P 214.914 Recovery = 98.31%							
Pb 220.353†	1740.8	495.75 µg/L	32.898	495.75 ppb	32.898	6.64%	
QC value within limits for Pb 220.353 Recovery = 99.15%							
S 181.975 Axial†	507.9	2457.6 µg/L	132.95	2457.6 ppb	132.95	5.41%	
QC value within limits for S 181.975 Axial Recovery = 98.30%							
Sb 206.836†	486.1	499.69 µg/L	33.201	499.69 ppb	33.201	6.64%	
QC value within limits for Sb 206.836 Recovery = 99.94%							
Se 196.026†	1541.6	2495.5 µg/L	155.34	2495.5 ppb	155.34	6.22%	
QC value within limits for Se 196.026 Recovery = 99.82%							
SiO2†	45709.7	10526 µg/L	311.5	10526 ppb	311.5	2.96%	
QC value within limits for SiO2 Recovery = 98.42%							
Si 251.611†	55844.1	4904.3 µg/L	149.24	4904.3 ppb	149.24	3.04%	
QC value within limits for Si 251.611 Recovery = 98.09%							
Sn 189.927†	1085.2	530.27 µg/L	49.612	530.27 ppb	49.612	9.36%	
QC value within limits for Sn 189.927 Recovery = 106.05%							
Sr 421.552†	48701.9	531.54 µg/L	4.254	531.54 ppb	4.254	0.80%	
QC value within limits for Sr 421.552 Recovery = 106.31%							
Ti 334.940†	192871.7	489.51 µg/L	15.218	489.51 ppb	15.218	3.11%	
QC value within limits for Ti 334.940 Recovery = 97.90%							
Tl 190.801†	347.1	523.15 µg/L	21.365	523.15 ppb	21.365	4.08%	
QC value within limits for Tl 190.801 Recovery = 104.63%							
U 409.014†	5210.8	482.26 µg/L	25.207	482.26 ppb	25.207	5.23%	
QC value within limits for U 409.014 Recovery = 96.45%							
V 292.402†	44957.9	512.98 µg/L	22.031	512.98 ppb	22.031	4.29%	
QC value within limits for V 292.402 Recovery = 102.60%							
Zn 213.857†	19135.9	505.57 µg/L	19.337	505.57 ppb	19.337	3.82%	
QC value within limits for Zn 213.857 Recovery = 101.11%							
All analyte(s) passed QC.							

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

Autosampler Location: 10
 Date Collected: 2/9/2010 06:24:22
 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	52428.1	52428.1	97.7 %		06:24:55
1	Al 396.153Radial†	-21.7	-6.0	-4.4784 µg/L	-4.4784 ppb	06:24:55
1	Ca 317.933Radial†	172.5	-0.6	-0.5496 µg/L	-0.5496 ppb	06:25:16
1	Fe 238.204 Radial†	15.5	2.1	18.499 µg/L	18.499 ppb	06:25:16
1	K 766.490 Radial†	124.2	-24.0	-18.059 µg/L	-18.059 ppb	06:24:55
1	Mg 279.077 IEC†	14.1	3.0	28.358 µg/L	28.358 ppb	06:25:16
1	Na 589.592 Radial†	523.3	35.0	11.692 µg/L	11.692 ppb	06:24:55
1	Sr 421.552†	55.1	19.0	0.2077 µg/L	0.2077 ppb	06:24:55
1	Sc 361.383	1823082.1	1823082.1	96.817 %		06:26:18
1	Y 371.029	1254570.2	1254570.2	96.765 %		06:26:18
1	Ag 328.068†	-565.8	3.4	0.0312 µg/L	0.0312 ppb	06:26:23
1	As 188.979†	2.8	2.7	5.5451 µg/L	5.5451 ppb	06:26:44
1	B 249.677†	306.3	40.9	1.9077 µg/L	1.9077 ppb	06:26:44
1	Ba 233.527†	-20.5	9.4	0.2636 µg/L	0.2636 ppb	06:26:44
1	Be 313.107†	-3474.9	-22.1	-0.0153 µg/L	-0.0153 ppb	06:26:23
1	Cd 226.502†	-122.0	12.3	0.3637 µg/L	0.3637 ppb	06:26:44
1	Co 228.616†	-11.2	6.2	0.3258 µg/L	0.3258 ppb	06:26:44
1	Cr 267.716†	-42.4	-10.0	-0.2324 µg/L	-0.2324 ppb	06:26:44
1	Cu 324.752†	2749.9	138.1	1.0214 µg/L	1.0214 ppb	06:26:23
1	Mn 257.610†	-251.6	10.1	0.0380 µg/L	0.0380 ppb	06:26:44
1	Mo 202.031†	-1.4	8.2	0.8937 µg/L	0.8937 ppb	06:26:44
1	Ni 231.604†	304.5	16.9	0.9895 µg/L	0.9895 ppb	06:26:44
1	P 214.914†	21.6	-4.9	-11.304 µg/L	-11.304 ppb	06:26:44
1	Pb 220.353†	91.4	4.4	1.2545 µg/L	1.2545 ppb	06:26:44
1	S 181.975 Axial†	14.7	1.2	5.7925 µg/L	5.7925 ppb	06:26:44
1	Sb 206.836†	24.5	2.4	2.4573 µg/L	2.4573 ppb	06:26:44
1	Se 196.026†	10.8	-3.6	-5.7466 µg/L	-5.7466 ppb	06:26:44
1	SiO2†	1319.5	34.5	7.9536 µg/L	7.9536 ppb	06:26:23
1	Si 251.611†	295.7	45.8	4.0242 µg/L	4.0242 ppb	06:26:44
1	Sn 189.927†	-1.9	-0.9	-0.4170 µg/L	-0.4170 ppb	06:26:44
1	Ti 334.940†	95.6	8.2	0.0185 µg/L	0.0185 ppb	06:26:23
1	Tl 190.801†	-19.9	5.2	7.8159 µg/L	7.8159 ppb	06:26:44
1	U 409.014†	-23.8	-22.3	-2.0668 µg/L	-2.0668 ppb	06:26:23
1	V 292.402†	-20.9	19.9	0.2311 µg/L	0.2311 ppb	06:26:23
1	Zn 213.857†	476.8	33.3	0.8763 µg/L	0.8763 ppb	06:26:44
2	Sc RADIAL	52089.9	52089.9	97.1 %		06:25:21
2	Al 396.153Radial†	-16.1	-0.4	-0.2732 µg/L	-0.2732 ppb	06:25:21
2	Ca 317.933Radial†	178.3	6.5	6.3249 µg/L	6.3249 ppb	06:25:42
2	Fe 238.204 Radial†	15.2	1.9	16.607 µg/L	16.607 ppb	06:25:42
2	K 766.490 Radial†	143.2	-3.7	-2.7532 µg/L	-2.7532 ppb	06:25:21
2	Mg 279.077 IEC†	14.8	3.8	36.464 µg/L	36.464 ppb	06:25:42
2	Na 589.592 Radial†	489.5	3.7	1.2290 µg/L	1.2290 ppb	06:25:21
2	Sr 421.552†	45.4	9.4	0.1025 µg/L	0.1025 ppb	06:25:21
2	Sc 361.383	1844454.1	1844454.1	97.952 %		06:26:50
2	Y 371.029	1268718.5	1268718.5	97.856 %		06:26:50
2	Ag 328.068†	-488.9	88.7	0.7455 µg/L	0.7455 ppb	06:26:55
2	As 188.979†	-5.7	-6.0	-12.512 µg/L	-12.512 ppb	06:27:16
2	B 249.677†	308.6	39.6	1.8471 µg/L	1.8471 ppb	06:27:16
2	Ba 233.527†	-24.8	5.3	0.1484 µg/L	0.1484 ppb	06:27:16
2	Be 313.107†	-3529.9	-36.7	-0.0254 µg/L	-0.0254 ppb	06:26:55
2	Cd 226.502†	-144.3	-9.0	-0.2664 µg/L	-0.2664 ppb	06:27:16
2	Co 228.616†	-2.9	14.8	0.7811 µg/L	0.7811 ppb	06:27:16
2	Cr 267.716†	-41.2	-8.3	-0.1919 µg/L	-0.1919 ppb	06:27:16
2	Cu 324.752†	2803.1	159.4	1.1790 µg/L	1.1790 ppb	06:26:55
2	Mn 257.610†	-239.3	25.6	0.0936 µg/L	0.0936 ppb	06:27:16
2	Mo 202.031†	-7.0	2.5	0.2771 µg/L	0.2771 ppb	06:27:16
2	Ni 231.604†	302.5	11.3	0.6587 µg/L	0.6587 ppb	06:27:16
2	P 214.914†	31.0	4.4	9.8343 µg/L	9.8343 ppb	06:27:16
2	Pb 220.353†	94.9	6.8	1.9427 µg/L	1.9427 ppb	06:27:16

2	S 181.975 Axial†	18.3	4.6	22.442 µg/L	22.442 ppb	06:27:16
2	Sb 206.836†	25.2	2.8	2.8774 µg/L	2.8774 ppb	06:27:16
2	Se 196.026†	15.9	1.5	2.4174 µg/L	2.4174 ppb	06:27:16
2	SiO2†	1364.5	64.7	14.892 µg/L	14.892 ppb	06:26:55
2	Si 251.611†	298.7	45.3	3.9810 µg/L	3.9810 ppb	06:27:16
2	Sn 189.927†	-0.2	0.9	0.4439 µg/L	0.4439 ppb	06:27:16
2	Ti 334.940†	138.4	50.8	0.1262 µg/L	0.1262 ppb	06:26:55
2	Tl 190.801†	-25.5	-0.2	-0.3511 µg/L	-0.3511 ppb	06:27:16
2	U 409.014†	-38.5	-37.0	-3.4319 µg/L	-3.4319 ppb	06:26:55
2	V 292.402†	-15.6	25.7	0.2893 µg/L	0.2893 ppb	06:26:55
2	Zn 213.857†	481.8	32.7	0.8620 µg/L	0.8620 ppb	06:27:16
3	Sc RADIAL	52152.2	52152.2	97.2 %		06:25:47
3	Al 396.153Radial†	-32.5	-17.3	-12.827 µg/L	-12.827 ppb	06:25:47
3	Ca 317.933Radial†	177.0	5.0	4.8422 µg/L	4.8422 ppb	06:26:08
3	Fe 238.204 Radial†	15.8	2.4	21.356 µg/L	21.356 ppb	06:26:08
3	K 766.490 Radial†	144.6	-2.4	-1.7879 µg/L	-1.7879 ppb	06:25:47
3	Mg 279.077 IEC†	12.1	1.0	9.8318 µg/L	9.8318 ppb	06:26:08
3	Na 589.592 Radial†	523.9	38.5	12.849 µg/L	12.849 ppb	06:25:47
3	Sr 421.552†	36.4	0.1	0.0008 µg/L	0.0008 ppb	06:25:47
3	Sc 361.383	1859225.1	1859225.1	98.736 %		06:27:22
3	Y 371.029	1280155.7	1280155.7	98.738 %		06:27:22
3	Ag 328.068†	-558.4	22.3	0.1896 µg/L	0.1896 ppb	06:27:27
3	As 188.979†	-0.6	-0.9	-1.7844 µg/L	-1.7844 ppb	06:27:48
3	B 249.677†	311.4	39.9	1.8587 µg/L	1.8587 ppb	06:27:48
3	Ba 233.527†	-23.4	6.9	0.1934 µg/L	0.1934 ppb	06:27:48
3	Be 313.107†	-3511.6	10.4	0.0072 µg/L	0.0072 ppb	06:27:27
3	Cd 226.502†	-134.8	1.8	0.0505 µg/L	0.0505 ppb	06:27:48
3	Co 228.616†	-14.2	3.4	0.1807 µg/L	0.1807 ppb	06:27:48
3	Cr 267.716†	-40.8	-7.6	-0.1754 µg/L	-0.1754 ppb	06:27:48
3	Cu 324.752†	2783.1	116.4	0.8622 µg/L	0.8622 ppb	06:27:27
3	Mn 257.610†	-211.3	56.0	0.2051 µg/L	0.2051 ppb	06:27:48
3	Mo 202.031†	-0.5	9.2	1.0044 µg/L	1.0044 ppb	06:27:48
3	Ni 231.604†	298.1	4.3	0.2529 µg/L	0.2529 ppb	06:27:48
3	P 214.914†	30.0	3.2	7.0652 µg/L	7.0652 ppb	06:27:48
3	Pb 220.353†	103.7	15.0	4.2581 µg/L	4.2581 ppb	06:27:48
3	S 181.975 Axial†	17.5	3.7	17.776 µg/L	17.776 ppb	06:27:48
3	Sb 206.836†	18.7	-3.9	-3.9754 µg/L	-3.9754 ppb	06:27:48
3	Se 196.026†	18.3	3.8	6.1699 µg/L	6.1699 ppb	06:27:48
3	SiO2†	1337.1	25.9	5.9721 µg/L	5.9721 ppb	06:27:27
3	Si 251.611†	303.0	47.3	4.1502 µg/L	4.1502 ppb	06:27:48
3	Sn 189.927†	-2.2	-1.1	-0.5516 µg/L	-0.5516 ppb	06:27:48
3	Ti 334.940†	81.1	-8.4	-0.0221 µg/L	-0.0221 ppb	06:27:27
3	Tl 190.801†	-28.1	-2.7	-3.9452 µg/L	-3.9452 ppb	06:27:48
3	U 409.014†	31.6	34.3	3.1801 µg/L	3.1801 ppb	06:27:27
3	V 292.402†	-15.4	26.0	0.3057 µg/L	0.3057 ppb	06:27:27
3	Zn 213.857†	478.1	25.0	0.6614 µg/L	0.6614 ppb	06:27:48

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1842253.8	97.835 %	0.9650			0.99%
Sc RADIAL	52223.4	97.3 %	0.34			0.34%
Y 371.029	1267814.8	97.787 %	0.9885			1.01%
Ag 328.068†	38.1	0.3221 µg/L	0.37515	0.3221 ppb	0.37515	116.47%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.9	-5.8594 µg/L	6.38964	-5.8594 ppb	6.38964	109.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-2.9170 µg/L	9.08149	-2.9170 ppb	9.08149	311.33%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	40.2	1.8712 µg/L	0.03214	1.8712 ppb	0.03214	1.72%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.2	0.2018 µg/L	0.05807	0.2018 ppb	0.05807	28.77%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.2	-0.0112 µg/L	0.01665	-0.0112 ppb	0.01665	149.35%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.7	3.5392 µg/L	3.61772	3.5392 ppb	3.61772	102.22%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.7	0.0493 µg/L	0.31504	0.0493 ppb	0.31504	639.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.1	0.4292 µg/L	0.31330	0.4292 ppb	0.31330	73.00%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-8.6	-0.1999 µg/L	0.02929	-0.1999 ppb	0.02929	14.66%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	138.0	1.0209 µg/L	0.15836	1.0209 ppb	0.15836	15.51%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.1	18.821 µg/L	2.3906	18.821 ppb	2.3906	12.70%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-10.0	-7.5332 µg/L	9.12799	-7.5332 ppb	9.12799	121.17%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.6	24.885 µg/L	13.6517	24.885 ppb	13.6517	54.86%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	30.6	0.1122 µg/L	0.08510	0.1122 ppb	0.08510	75.85%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	6.6	0.7251 µg/L	0.39187	0.7251 ppb	0.39187	54.05%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	25.7	8.5898 µg/L	6.40083	8.5898 ppb	6.40083	74.52%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	10.9	0.6337 µg/L	0.36892	0.6337 ppb	0.36892	58.22%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	0.9	1.8650 µg/L	11.48881	1.8650 ppb	11.48881	616.01%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	8.7	2.4851 µg/L	1.57354	2.4851 ppb	1.57354	63.32%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.2	15.337 µg/L	8.5885	15.337 ppb	8.5885	56.00%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	0.4	0.4531 µg/L	3.84090	0.4531 ppb	3.84090	847.71%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.6	0.9469 µg/L	6.09283	0.9469 ppb	6.09283	643.48%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	41.7	9.6060 µg/L	4.68393	9.6060 ppb	4.68393	48.76%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	46.1	4.0518 µg/L	0.08792	4.0518 ppb	0.08792	2.17%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.4	-0.1749 µg/L	0.54010	-0.1749 ppb	0.54010	308.75%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	9.5	0.1037 µg/L	0.10346	0.1037 ppb	0.10346	99.81%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	16.9	0.0409 µg/L	0.07661	0.0409 ppb	0.07661	187.32%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.8	1.1732 µg/L	6.02691	1.1732 ppb	6.02691	513.72%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-8.3	-0.7729 µg/L	3.49078	-0.7729 ppb	3.49078	451.66%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	23.8	0.2754 µg/L	0.03924	0.2754 ppb	0.03924	14.25%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	30.3	0.7999 µg/L	0.12014	0.7999 ppb	0.12014	15.02%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

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

Autosampler Location: 101
 Date Collected: 2/9/2010 06:27:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52942.2	52942.2	98.7 %		06:28:30
1	Al 396.153Radial†	258.2	277.9	205.94 µg/L	205.94 ppb	06:28:30
1	Ca 317.933Radial†	367.1	194.9	188.56 µg/L	188.56 ppb	06:28:50
1	Fe 238.204 Radial†	27.9	14.5	128.01 µg/L	128.01 ppb	06:28:50
1	K 766.490 Radial†	351.3	204.8	154.07 µg/L	154.07 ppb	06:28:30
1	Mg 279.077 IEC†	41.3	30.4	289.28 µg/L	289.28 ppb	06:28:50
1	Na 589.592 Radial†	1365.1	882.9	294.67 µg/L	294.67 ppb	06:28:30
1	Sr 421.552†	488.4	457.6	4.9947 µg/L	4.9947 ppb	06:28:30
1	Sc 361.383	1853407.1	1853407.1	98.427 %		06:29:52
1	Y 371.029	1275468.4	1275468.4	98.377 %		06:29:52
1	Ag 328.068†	33.3	621.6	5.2461 µg/L	5.2461 ppb	06:29:58
1	As 188.979†	15.3	15.3	31.847 µg/L	31.847 ppb	06:30:18
1	B 249.677†	1317.7	1063.3	49.744 µg/L	49.744 ppb	06:29:58
1	Ba 233.527†	160.7	193.9	5.4387 µg/L	5.4387 ppb	06:30:18
1	Be 313.107†	3612.1	7236.8	4.9854 µg/L	4.9854 ppb	06:29:58
1	Cd 226.502†	29.1	167.9	4.9595 µg/L	4.9595 ppb	06:30:18
1	Co 228.616†	81.2	100.2	5.2780 µg/L	5.2780 ppb	06:30:18
1	Cr 267.716†	180.2	216.9	5.0376 µg/L	5.0376 ppb	06:30:18
1	Cu 324.752†	4173.9	1538.2	11.370 µg/L	11.370 ppb	06:29:58
1	Mn 257.610†	2549.9	2860.5	10.362 µg/L	10.362 ppb	06:29:58
1	Mo 202.031†	83.8	94.8	10.361 µg/L	10.361 ppb	06:30:18
1	Ni 231.604†	392.5	101.3	5.9112 µg/L	5.9112 ppb	06:30:18
1	P 214.914†	91.0	65.3	147.22 µg/L	147.22 ppb	06:30:18
1	Pb 220.353†	134.5	46.6	13.224 µg/L	13.224 ppb	06:30:18
1	S 181.975 Axial†	31.2	17.7	85.662 µg/L	85.662 ppb	06:30:18
1	Sb 206.836†	36.3	14.0	14.381 µg/L	14.381 ppb	06:30:18
1	Se 196.026†	35.3	21.1	34.130 µg/L	34.130 ppb	06:30:18
1	SiO2†	2281.1	989.2	227.80 µg/L	227.80 ppb	06:29:58
1	Si 251.611†	1393.8	1156.4	101.56 µg/L	101.56 ppb	06:30:18
1	Sn 189.927†	26.9	28.5	13.922 µg/L	13.922 ppb	06:30:18
1	Ti 334.940†	2045.5	1987.7	5.0283 µg/L	5.0283 ppb	06:29:58
1	Tl 190.801†	-7.4	18.3	27.422 µg/L	27.422 ppb	06:30:18
1	U 409.014†	531.5	542.3	50.260 µg/L	50.260 ppb	06:29:58
1	V 292.402†	425.9	474.3	5.5050 µg/L	5.5050 ppb	06:29:58
1	Zn 213.857†	832.9	387.0	10.230 µg/L	10.230 ppb	06:30:18
2	Sc RADIAL	51435.3	51435.3	95.9 %		06:28:56
2	Al 396.153Radial†	231.7	257.8	191.08 µg/L	191.08 ppb	06:28:56
2	Ca 317.933Radial†	367.0	205.7	198.93 µg/L	198.93 ppb	06:29:16
2	Fe 238.204 Radial†	28.4	15.9	139.87 µg/L	139.87 ppb	06:29:16
2	K 766.490 Radial†	398.7	264.7	199.09 µg/L	199.09 ppb	06:28:56
2	Mg 279.077 IEC†	42.2	32.6	310.13 µg/L	310.13 ppb	06:29:16
2	Na 589.592 Radial†	1345.7	903.2	301.45 µg/L	301.45 ppb	06:28:56
2	Sr 421.552†	508.0	492.6	5.3763 µg/L	5.3763 ppb	06:28:56
2	Sc 361.383	1869796.7	1869796.7	99.298 %		06:30:24
2	Y 371.029	1287680.8	1287680.8	99.319 %		06:30:24
2	Ag 328.068†	62.3	650.6	5.4850 µg/L	5.4850 ppb	06:30:30
2	As 188.979†	11.3	11.1	23.160 µg/L	23.160 ppb	06:30:50
2	B 249.677†	1335.2	1069.2	50.014 µg/L	50.014 ppb	06:30:30
2	Ba 233.527†	152.0	183.7	5.1520 µg/L	5.1520 ppb	06:30:50
2	Be 313.107†	3507.0	7098.8	4.8904 µg/L	4.8904 ppb	06:30:30
2	Cd 226.502†	30.4	168.9	4.9870 µg/L	4.9870 ppb	06:30:50
2	Co 228.616†	82.7	101.0	5.3214 µg/L	5.3214 ppb	06:30:50
2	Cr 267.716†	172.7	207.7	4.8245 µg/L	4.8245 ppb	06:30:50
2	Cu 324.752†	4145.5	1472.5	10.887 µg/L	10.887 ppb	06:30:30
2	Mn 257.610†	2516.2	2803.9	10.157 µg/L	10.157 ppb	06:30:30
2	Mo 202.031†	88.1	98.4	10.753 µg/L	10.753 ppb	06:30:50
2	Ni 231.604†	389.3	94.5	5.5134 µg/L	5.5134 ppb	06:30:50
2	P 214.914†	97.7	71.1	160.52 µg/L	160.52 ppb	06:30:50
2	Pb 220.353†	134.1	45.1	12.794 µg/L	12.794 ppb	06:30:50

2	S 181.975 Axial†	37.1	23.4	113.10 µg/L	113.10 ppb	06:30:50
2	Sb 206.836†	32.6	9.9	10.257 µg/L	10.257 ppb	06:30:50
2	Se 196.026†	31.5	17.0	27.544 µg/L	27.544 ppb	06:30:50
2	SiO2†	2231.4	918.9	211.60 µg/L	211.60 ppb	06:30:30
2	Si 251.611†	1383.7	1133.9	99.580 µg/L	99.580 ppb	06:30:50
2	Sn 189.927†	15.5	16.7	8.1971 µg/L	8.1971 ppb	06:30:50
2	Ti 334.940†	1997.9	1921.5	4.8588 µg/L	4.8588 ppb	06:30:30
2	Tl 190.801†	-13.0	12.7	19.084 µg/L	19.084 ppb	06:30:50
2	U 409.014†	509.4	515.3	47.759 µg/L	47.759 ppb	06:30:30
2	V 292.402†	373.7	417.9	4.8707 µg/L	4.8707 ppb	06:30:30
2	Zn 213.857†	828.4	375.1	9.9128 µg/L	9.9128 ppb	06:30:50
3	Sc RADIAL	53515.5	53515.5	99.7 %		06:29:22
3	Al 396.153Radial†	246.7	263.5	195.27 µg/L	195.27 ppb	06:29:22
3	Ca 317.933Radial†	369.4	193.3	186.95 µg/L	186.95 ppb	06:29:42
3	Fe 238.204 Radial†	28.4	14.7	129.38 µg/L	129.38 ppb	06:29:42
3	K 766.490 Radial†	357.8	207.6	156.13 µg/L	156.13 ppb	06:29:22
3	Mg 279.077 IEC†	41.0	29.7	282.57 µg/L	282.57 ppb	06:29:42
3	Na 589.592 Radial†	1338.6	841.6	280.87 µg/L	280.87 ppb	06:29:22
3	Sr 421.552†	494.5	458.5	5.0040 µg/L	5.0040 ppb	06:29:22
3	Sc 361.383	1842746.9	1842746.9	97.861 %		06:30:56
3	Y 371.029	1268946.5	1268946.5	97.874 %		06:30:56
3	Ag 328.068†	47.7	636.6	5.3673 µg/L	5.3673 ppb	06:31:02
3	As 188.979†	14.0	14.1	29.214 µg/L	29.214 ppb	06:31:22
3	B 249.677†	1304.6	1057.7	49.479 µg/L	49.479 ppb	06:31:02
3	Ba 233.527†	137.0	170.6	4.7855 µg/L	4.7855 ppb	06:31:22
3	Be 313.107†	3291.7	6930.6	4.7744 µg/L	4.7744 ppb	06:31:02
3	Cd 226.502†	8.6	147.1	4.3433 µg/L	4.3433 ppb	06:31:22
3	Co 228.616†	82.2	101.7	5.3584 µg/L	5.3584 ppb	06:31:22
3	Cr 267.716†	152.6	189.7	4.4073 µg/L	4.4073 ppb	06:31:22
3	Cu 324.752†	4104.1	1491.5	11.025 µg/L	11.025 ppb	06:31:02
3	Mn 257.610†	2469.4	2793.3	10.119 µg/L	10.119 ppb	06:31:02
3	Mo 202.031†	84.0	95.5	10.441 µg/L	10.441 ppb	06:31:22
3	Ni 231.604†	368.3	78.8	4.5975 µg/L	4.5975 ppb	06:31:22
3	P 214.914†	90.0	64.7	145.91 µg/L	145.91 ppb	06:31:22
3	Pb 220.353†	122.9	35.6	10.097 µg/L	10.097 ppb	06:31:22
3	S 181.975 Axial†	33.6	20.4	98.489 µg/L	98.489 ppb	06:31:22
3	Sb 206.836†	30.1	7.9	8.1402 µg/L	8.1402 ppb	06:31:22
3	Se 196.026†	29.8	15.8	25.512 µg/L	25.512 ppb	06:31:22
3	SiO2†	2232.6	953.1	219.46 µg/L	219.46 ppb	06:31:02
3	Si 251.611†	1302.9	1071.8	94.126 µg/L	94.126 ppb	06:31:22
3	Sn 189.927†	19.1	20.6	10.099 µg/L	10.099 ppb	06:31:22
3	Ti 334.940†	2041.2	1995.3	5.0480 µg/L	5.0480 ppb	06:31:02
3	Tl 190.801†	-9.3	16.3	24.412 µg/L	24.412 ppb	06:31:22
3	U 409.014†	414.3	425.7	39.446 µg/L	39.446 ppb	06:31:02
3	V 292.402†	366.3	415.9	4.8344 µg/L	4.8344 ppb	06:31:02
3	Zn 213.857†	802.5	360.9	9.5409 µg/L	9.5409 ppb	06:31:22

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1855316.9	98.529 %	0.7236			0.73%
Sc RADIAL	52631.0	98.1 %	2.00			2.04%
Y 371.029	1277365.2	98.523 %	0.7335			0.74%
Ag 328.068†	636.3	5.3661 µg/L	0.11948	5.3661 ppb	0.11948	2.23%
QC value within limits for Ag 328.068 Recovery = 107.32%						
Al 396.153Radial†	266.4	197.43 µg/L	7.665	197.43 ppb	7.665	3.88%
QC value within limits for Al 396.153Radial Recovery = 98.72%						
As 188.979†	13.5	28.074 µg/L	4.4543	28.074 ppb	4.4543	15.87%
QC value within limits for As 188.979 Recovery = 93.58%						
B 249.677†	1063.4	49.745 µg/L	0.2674	49.745 ppb	0.2674	0.54%
QC value within limits for B 249.677 Recovery = 99.49%						
Ba 233.527†	182.7	5.1254 µg/L	0.32742	5.1254 ppb	0.32742	6.39%
QC value within limits for Ba 233.527 Recovery = 102.51%						
Be 313.107†	7088.7	4.8834 µg/L	0.10569	4.8834 ppb	0.10569	2.16%
QC value within limits for Be 313.107 Recovery = 97.67%						
Ca 317.933Radial†	198.0	191.48 µg/L	6.504	191.48 ppb	6.504	3.40%
QC value within limits for Ca 317.933Radial Recovery = 95.74%						
Cd 226.502†	161.3	4.7633 µg/L	0.36398	4.7633 ppb	0.36398	7.64%
QC value within limits for Cd 226.502 Recovery = 95.27%						
Co 228.616†	101.0	5.3192 µg/L	0.04023	5.3192 ppb	0.04023	0.76%

QC value within limits for Co 228.616	Recovery = 106.38%			
Cr 267.716†	204.8	4.7564 µg/L	0.32063	4.7564 ppb 0.32063 6.74%
QC value within limits for Cr 267.716	Recovery = 95.13%			
Cu 324.752†	1500.7	11.094 µg/L	0.2489	11.094 ppb 0.2489 2.24%
QC value within limits for Cu 324.752	Recovery = 110.94%			
Fe 238.204 Radial†	15.0	132.42 µg/L	6.488	132.42 ppb 6.488 4.90%
QC value greater than the upper limit for Fe 238.204 Radial	Recovery = 132.42%			
K 766.490 Radial†	225.7	169.76 µg/L	25.422	169.76 ppb 25.422 14.97%
QC value within limits for K 766.490 Radial	Recovery = 113.18%			
Mg 279.077 IEC†	30.9	293.99 µg/L	14.376	293.99 ppb 14.376 4.89%
QC value within limits for Mg 279.077 IEC	Recovery = 98.00%			
Mn 257.610†	2819.2	10.212 µg/L	0.1306	10.212 ppb 0.1306 1.28%
QC value within limits for Mn 257.610	Recovery = 102.12%			
Mo 202.031†	96.3	10.518 µg/L	0.2074	10.518 ppb 0.2074 1.97%
QC value within limits for Mo 202.031	Recovery = 105.18%			
Na 589.592 Radial†	875.9	292.33 µg/L	10.485	292.33 ppb 10.485 3.59%
QC value within limits for Na 589.592 Radial	Recovery = 97.44%			
Ni 231.604†	91.5	5.3407 µg/L	0.67369	5.3407 ppb 0.67369 12.61%
QC value within limits for Ni 231.604	Recovery = 106.81%			
P 214.914†	67.0	151.22 µg/L	8.084	151.22 ppb 8.084 5.35%
QC value within limits for P 214.914	Recovery = 100.81%			
Pb 220.353†	42.4	12.038 µg/L	1.6945	12.038 ppb 1.6945 14.08%
QC value within limits for Pb 220.353	Recovery = 120.38%			
S 181.975 Axial†	20.5	99.083 µg/L	13.7278	99.083 ppb 13.7278 13.85%
QC value within limits for S 181.975 Axial	Recovery = 99.08%			
Sb 206.836†	10.6	10.926 µg/L	3.1740	10.926 ppb 3.1740 29.05%
QC value within limits for Sb 206.836	Recovery = 109.26%			
Se 196.026†	18.0	29.062 µg/L	4.5049	29.062 ppb 4.5049 15.50%
QC value within limits for Se 196.026	Recovery = 96.87%			
SiO2†	953.7	219.62 µg/L	8.100	219.62 ppb 8.100 3.69%
QC value within limits for SiO2	Recovery = 103.11%			
Si 251.611†	1120.7	98.422 µg/L	3.8494	98.422 ppb 3.8494 3.91%
QC value within limits for Si 251.611	Recovery = 98.42%			
Sn 189.927†	21.9	10.739 µg/L	2.9157	10.739 ppb 2.9157 27.15%
QC value within limits for Sn 189.927	Recovery = 107.39%			
Sr 421.552†	469.6	5.1250 µg/L	0.21768	5.1250 ppb 0.21768 4.25%
QC value within limits for Sr 421.552	Recovery = 102.50%			
Ti 334.940†	1968.2	4.9784 µg/L	0.10401	4.9784 ppb 0.10401 2.09%
QC value within limits for Ti 334.940	Recovery = 99.57%			
Tl 190.801†	15.8	23.639 µg/L	4.2227	23.639 ppb 4.2227 17.86%
QC value within limits for Tl 190.801	Recovery = 118.20%			
U 409.014†	494.4	45.822 µg/L	5.6613	45.822 ppb 5.6613 12.35%
QC value within limits for U 409.014	Recovery = 91.64%			
V 292.402†	436.0	5.0700 µg/L	0.37715	5.0700 ppb 0.37715 7.44%
QC value within limits for V 292.402	Recovery = 101.40%			
Zn 213.857†	374.3	9.8945 µg/L	0.34478	9.8945 ppb 0.34478 3.48%
QC value within limits for Zn 213.857	Recovery = 98.94%			

QC Failed. Continue with analysis.

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

Autosampler Location: 103
 Date Collected: 2/9/2010 06:31:32
 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	51737.3	51737.3	96.4 %		06:32:13
1	Al 396.153Radial†	641064.3	664860.9	493270 µg/L	493270 ppb	06:32:08
1	Ca 317.933Radial†	470068.2	487328.4	471360 µg/L	471360 ppb	06:32:08
1	Fe 238.204 Radial†	20268.3	21006.4	185150 µg/L	185150 ppb	06:32:13
1	K 766.490 Radial†	146.0	0.3	0.2280 µg/L	0.2280 ppb	06:32:13
1	Mg 279.077 IEC†	48296.0	50076.2	476140 µg/L	476140 ppb	06:32:13
1	Na 589.592 Radial†	498.7	16.7	5.5753 µg/L	5.5753 ppb	06:32:13
1	Sr 421.552†	332.1	307.1	3.3515 µg/L	3.3515 ppb	06:32:13
1	Sc 361.383	1750847.4	1750847.4	92.981 %		06:32:47
1	Y 371.029	1194073.6	1194073.6	92.099 %		06:32:47
1	Ag 328.068†	-2700.0	-2316.0	-7.8630 µg/L	-7.8630 ppb	06:32:47
1	As 188.979†	-17.3	-18.8	-52.956 µg/L	-52.956 ppb	06:33:07
1	B 249.677†	745.9	526.8	-71.938 µg/L	-71.938 ppb	06:32:47
1	Ba 233.527†	253.7	303.4	8.4589 µg/L	8.4589 ppb	06:33:07
1	Be 313.107†	-4080.5	-821.6	-0.5762 µg/L	-0.5762 ppb	06:32:47
1	Cd 226.502†	333.0	496.4	-6.2432 µg/L	-6.2432 ppb	06:33:07
1	Co 228.616†	26.2	45.9	2.3542 µg/L	2.3542 ppb	06:33:07
1	Cr 267.716†	-38.9	-8.0	-0.1996 µg/L	-0.1996 ppb	06:33:07
1	Cu 324.752†	-931.4	-3704.0	-1.5994 µg/L	-1.5994 ppb	06:32:47
1	Mn 257.610†	52.7	326.6	6.7536 µg/L	6.7536 ppb	06:32:47
1	Mo 202.031†	-99.9	-97.7	-3.6382 µg/L	-3.6382 ppb	06:33:07
1	Ni 231.604†	147.5	-138.9	-5.7120 µg/L	-5.7120 ppb	06:33:07
1	P 214.914†	101.8	82.2	180.90 µg/L	180.90 ppb	06:33:07
1	Pb 220.353†	49.8	-36.5	9.7176 µg/L	9.7176 ppb	06:33:07
1	S 181.975 Axial†	40.0	29.0	140.15 µg/L	140.15 ppb	06:33:07
1	Sb 206.836†	53.5	34.7	-5.7032 µg/L	-5.7032 ppb	06:33:07
1	Se 196.026†	29.9	17.5	-21.008 µg/L	-21.008 ppb	06:33:07
1	SiO2†	1138.3	-104.1	-23.965 µg/L	-23.965 ppb	06:33:07
1	Si 251.611†	402.3	173.0	15.193 µg/L	15.193 ppb	06:33:07
1	Sn 189.927†	-65.7	-69.5	0.1204 µg/L	0.1204 ppb	06:33:07
1	Ti 334.940†	9713.6	10356.4	-3.7871 µg/L	-3.7871 ppb	06:32:47
1	Tl 190.801†	-32.2	-8.8	6.7735 µg/L	6.7735 ppb	06:33:07
1	U 409.014†	-5.0	-3.1	-54.776 µg/L	-54.776 ppb	06:32:47
1	V 292.402†	-1817.6	-1913.3	0.1419 µg/L	0.1419 ppb	06:32:47
1	Zn 213.857†	1399.7	1046.2	-7.8876 µg/L	-7.8876 ppb	06:33:07
2	Sc RADIAL	52254.4	52254.4	97.4 %		06:32:25
2	Al 396.153Radial†	652464.8	669987.1	497070 µg/L	497070 ppb	06:32:19
2	Ca 317.933Radial†	479554.1	492243.7	476110 µg/L	476110 ppb	06:32:19
2	Fe 238.204 Radial†	20446.1	20980.8	184920 µg/L	184920 ppb	06:32:25
2	K 766.490 Radial†	123.8	-24.0	-18.067 µg/L	-18.067 ppb	06:32:25
2	Mg 279.077 IEC†	48569.2	49860.9	474090 µg/L	474090 ppb	06:32:25
2	Na 589.592 Radial†	509.9	23.1	7.6928 µg/L	7.6928 ppb	06:32:25
2	Sr 421.552†	332.7	304.3	3.3208 µg/L	3.3208 ppb	06:32:25
2	Sc 361.383	1740165.0	1740165.0	92.413 %		06:33:14
2	Y 371.029	1187417.4	1187417.4	91.585 %		06:33:14
2	Ag 328.068†	-2669.2	-2300.5	-7.7537 µg/L	-7.7537 ppb	06:33:14
2	As 188.979†	-6.9	-7.7	-30.059 µg/L	-30.059 ppb	06:33:35
2	B 249.677†	737.2	522.4	-72.028 µg/L	-72.028 ppb	06:33:14
2	Ba 233.527†	241.9	292.4	8.1484 µg/L	8.1484 ppb	06:33:35
2	Be 313.107†	-3998.8	-760.1	-0.5339 µg/L	-0.5339 ppb	06:33:14
2	Cd 226.502†	337.9	504.0	-5.9919 µg/L	-5.9919 ppb	06:33:35
2	Co 228.616†	28.7	48.8	2.5052 µg/L	2.5052 ppb	06:33:35
2	Cr 267.716†	-42.4	-12.1	-0.2957 µg/L	-0.2957 ppb	06:33:35
2	Cu 324.752†	-863.2	-3636.4	-1.1315 µg/L	-1.1315 ppb	06:33:14
2	Mn 257.610†	126.2	406.5	7.0950 µg/L	7.0950 ppb	06:33:14
2	Mo 202.031†	-111.1	-110.5	-5.0442 µg/L	-5.0442 ppb	06:33:35
2	Ni 231.604†	166.2	-117.7	-4.4763 µg/L	-4.4763 ppb	06:33:35
2	P 214.914†	94.4	74.9	165.60 µg/L	165.60 ppb	06:33:35
2	Pb 220.353†	46.1	-40.2	8.8799 µg/L	8.8799 ppb	06:33:35

2	S 181.975 Axial†	36.4	25.4	122.76 µg/L	122.76 ppb	06:33:35
2	Sb 206.836†	57.9	39.8	-0.8895 µg/L	-0.8895 ppb	06:33:35
2	Se 196.026†	31.2	19.1	-18.532 µg/L	-18.532 ppb	06:33:35
2	SiO2†	1143.3	-91.1	-20.981 µg/L	-20.981 ppb	06:33:35
2	Si 251.611†	429.5	205.1	18.015 µg/L	18.015 ppb	06:33:35
2	Sn 189.927†	-60.9	-64.8	2.1818 µg/L	2.1818 ppb	06:33:35
2	Ti 334.940†	9662.4	10365.1	-3.5272 µg/L	-3.5272 ppb	06:33:14
2	Tl 190.801†	-17.9	6.4	29.326 µg/L	29.326 ppb	06:33:35
2	U 409.014†	61.3	68.6	-48.384 µg/L	-48.384 ppb	06:33:14
2	V 292.402†	-1892.4	-2006.2	-0.9354 µg/L	-0.9354 ppb	06:33:14
2	Zn 213.857†	1407.7	1064.0	-7.2930 µg/L	-7.2930 ppb	06:33:35
3	Sc RADIAL	52019.1	52019.1	96.9 %		06:32:36
3	Al 396.153Radial†	647106.7	667491.2	495220 µg/L	495220 ppb	06:32:30
3	Ca 317.933Radial†	476283.8	491098.2	475010 µg/L	475010 ppb	06:32:30
3	Fe 238.204 Radial†	20401.5	21029.9	185360 µg/L	185360 ppb	06:32:36
3	K 766.490 Radial†	207.6	63.0	47.380 µg/L	47.380 ppb	06:32:36
3	Mg 279.077 IEC†	48463.3	49977.3	475200 µg/L	475200 ppb	06:32:36
3	Na 589.592 Radial†	497.7	12.8	4.2855 µg/L	4.2855 ppb	06:32:36
3	Sr 421.552†	332.7	305.8	3.3379 µg/L	3.3379 ppb	06:32:36
3	Sc 361.383	1734105.9	1734105.9	92.092 %		06:33:42
3	Y 371.029	1182970.8	1182970.8	91.242 %		06:33:42
3	Ag 328.068†	-2615.0	-2251.8	-7.3232 µg/L	-7.3232 ppb	06:33:42
3	As 188.979†	-9.5	-10.6	-35.936 µg/L	-35.936 ppb	06:34:02
3	B 249.677†	757.1	546.6	-71.118 µg/L	-71.118 ppb	06:33:42
3	Ba 233.527†	241.1	292.5	8.1486 µg/L	8.1486 ppb	06:34:02
3	Be 313.107†	-3991.9	-767.7	-0.5393 µg/L	-0.5393 ppb	06:33:42
3	Cd 226.502†	329.2	495.8	-6.2848 µg/L	-6.2848 ppb	06:34:02
3	Co 228.616†	33.8	54.4	2.8009 µg/L	2.8009 ppb	06:34:02
3	Cr 267.716†	-80.7	-53.8	-1.2637 µg/L	-1.2637 ppb	06:34:02
3	Cu 324.752†	-908.8	-3689.2	-1.4611 µg/L	-1.4611 ppb	06:33:42
3	Mn 257.610†	151.1	434.1	7.2078 µg/L	7.2078 ppb	06:33:42
3	Mo 202.031†	-108.9	-108.6	-4.8166 µg/L	-4.8166 ppb	06:34:02
3	Ni 231.604†	141.7	-143.6	-5.9840 µg/L	-5.9840 ppb	06:34:02
3	P 214.914†	98.4	79.6	175.30 µg/L	175.30 ppb	06:34:02
3	Pb 220.353†	42.2	-44.2	7.6219 µg/L	7.6219 ppb	06:34:02
3	S 181.975 Axial†	34.6	23.5	113.82 µg/L	113.82 ppb	06:34:02
3	Sb 206.836†	48.0	29.3	-11.540 µg/L	-11.540 ppb	06:34:02
3	Se 196.026†	25.0	12.4	-28.763 µg/L	-28.763 ppb	06:34:02
3	SiO2†	1130.1	-101.2	-23.300 µg/L	-23.300 ppb	06:34:02
3	Si 251.611†	436.4	214.3	18.820 µg/L	18.820 ppb	06:34:02
3	Sn 189.927†	-68.3	-73.1	-1.7512 µg/L	-1.7512 ppb	06:34:02
3	Ti 334.940†	9830.4	10584.0	-3.0763 µg/L	-3.0763 ppb	06:33:42
3	Tl 190.801†	-35.1	-12.3	1.4412 µg/L	1.4412 ppb	06:34:02
3	U 409.014†	66.3	74.3	-47.848 µg/L	-47.848 ppb	06:33:42
3	V 292.402†	-1935.6	-2060.3	-1.4943 µg/L	-1.4943 ppb	06:33:42
3	Zn 213.857†	1397.3	1058.1	-7.5268 µg/L	-7.5268 ppb	06:34:02

Mean Data: ICSEA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1741706.1	92.495 %	0.4502			0.49%
Sc RADIAL	52003.6	96.9 %	0.48			0.50%
Y 371.029	1188153.9	91.642 %	0.4310			0.47%
Ag 328.068†	-2289.4	-7.6466 µg/L	0.28539	-7.6466 ppb	0.28539	3.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	667446.4	495190 µg/L	1901.8	495190 ppb	1901.8	0.38%
QC value within limits for Al 396.153Radial Recovery = 99.04%						
As 188.979†	-12.4	-39.651 µg/L	11.8918	-39.651 ppb	11.8918	29.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	531.9	-71.695 µg/L	0.5018	-71.695 ppb	0.5018	0.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	296.1	8.2520 µg/L	0.17921	8.2520 ppb	0.17921	2.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-783.1	-0.5498 µg/L	0.02306	-0.5498 ppb	0.02306	4.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	490223.4	474160 µg/L	2487.5	474160 ppb	2487.5	0.52%
QC value within limits for Ca 317.933Radial Recovery = 94.83%						
Cd 226.502†	498.7	-6.1733 µg/L	0.15845	-6.1733 ppb	0.15845	2.57%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	49.7	2.5535 µg/L	0.22723	2.5535 ppb	0.22723	8.90%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-24.7	-0.5863 µg/L	0.58859	-0.5863 ppb	0.58859	100.39%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-3676.5	-1.3973 µg/L	0.24039	-1.3973 ppb	0.24039	17.20%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	21005.7	185140 µg/L	216.1	185140 ppb	216.1	0.12%	
QC value within limits for Fe 238.204 Radial Recovery = 92.57%							
K 766.490 Radial†	13.1	9.8468 µg/L	33.76692	9.8468 ppb	33.76692	342.92%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	49971.5	475150 µg/L	1024.7	475150 ppb	1024.7	0.22%	
QC value within limits for Mg 279.077 IEC Recovery = 95.03%							
Mn 257.610†	389.1	7.0188 µg/L	0.23652	7.0188 ppb	0.23652	3.37%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-105.6	-4.4997 µg/L	0.75467	-4.4997 ppb	0.75467	16.77%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	17.5	5.8512 µg/L	1.72031	5.8512 ppb	1.72031	29.40%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-133.4	-5.3907 µg/L	0.80354	-5.3907 ppb	0.80354	14.91%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	78.9	173.93 µg/L	7.736	173.93 ppb	7.736	4.45%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-40.3	8.7398 µg/L	1.05485	8.7398 ppb	1.05485	12.07%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	26.0	125.58 µg/L	13.386	125.58 ppb	13.386	10.66%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	34.6	-6.0442 µg/L	5.33344	-6.0442 ppb	5.33344	88.24%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	16.3	-22.768 µg/L	5.3376	-22.768 ppb	5.3376	23.44%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-98.8	-22.749 µg/L	1.5665	-22.749 ppb	1.5665	6.89%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	197.5	17.343 µg/L	1.9046	17.343 ppb	1.9046	10.98%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-69.1	0.1837 µg/L	1.96723	0.1837 ppb	1.96723	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	305.7	3.3367 µg/L	0.01541	3.3367 ppb	0.01541	0.46%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	10435.2	-3.4635 µg/L	0.35967	-3.4635 ppb	0.35967	10.38%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.9	12.514 µg/L	14.8022	12.514 ppb	14.8022	118.29%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	46.6	-50.336 µg/L	3.8541	-50.336 ppb	3.8541	7.66%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-1993.3	-0.7626 µg/L	0.83168	-0.7626 ppb	0.83168	109.05%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	1056.1	-7.5691 µg/L	0.29954	-7.5691 ppb	0.29954	3.96%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 2/9/2010 06:34:12

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	52499.6	52499.6	97.8 %		06:34:51
1	Al 396.153Radial†	627057.2	640891.5	475480 µg/L	475480 ppb	06:34:46
1	Ca 317.933Radial†	460358.9	470326.4	454910 µg/L	454910 ppb	06:34:46
1	Fe 238.204 Radial†	19661.0	20080.5	177000 µg/L	177000 ppb	06:34:51
1	K 766.490 Radial†	6511.9	6504.2	4892.0 µg/L	4892.0 ppb	06:34:51
1	Mg 279.077 IEC†	47101.9	48128.4	457630 µg/L	457630 ppb	06:34:51
1	Na 589.592 Radial†	14478.1	14296.7	4771.3 µg/L	4771.3 ppb	06:34:51
1	Sr 421.552†	43794.9	44722.7	488.11 µg/L	488.11 ppb	06:34:51
1	Sc 361.383	1758558.4	1758558.4	93.390 %		06:35:25
1	Y 371.029	1202079.0	1202079.0	92.716 %		06:35:25
1	Ag 328.068†	25895.8	28316.3	251.35 µg/L	251.35 ppb	06:35:31
1	As 188.979†	221.3	236.8	478.38 µg/L	478.38 ppb	06:35:51
1	B 249.677†	11038.1	11543.9	449.10 µg/L	449.10 ppb	06:35:31
1	Ba 233.527†	16593.4	17798.4	499.33 µg/L	499.33 ppb	06:35:31
1	Be 313.107†	316298.3	342251.4	235.67 µg/L	235.67 ppb	06:35:25
1	Cd 226.502†	14888.8	16080.9	456.19 µg/L	456.19 ppb	06:35:31
1	Co 228.616†	7682.7	8244.2	433.63 µg/L	433.63 ppb	06:35:51
1	Cr 267.716†	19405.9	20813.1	483.41 µg/L	483.41 ppb	06:35:31
1	Cu 324.752†	66854.1	68883.4	532.95 µg/L	532.95 ppb	06:35:31
1	Mn 257.610†	119704.0	128446.1	470.24 µg/L	470.24 ppb	06:35:31
1	Mo 202.031†	4065.1	4362.5	483.20 µg/L	483.20 ppb	06:35:51
1	Ni 231.604†	7116.8	7323.0	429.53 µg/L	429.53 ppb	06:35:51
1	P 214.914†	1142.6	1196.3	2664.5 µg/L	2664.5 ppb	06:35:51
1	Pb 220.353†	1610.2	1634.1	484.60 µg/L	484.60 ppb	06:35:51
1	S 181.975 Axial†	528.2	551.5	2668.6 µg/L	2668.6 ppb	06:35:51
1	Sb 206.836†	506.8	519.8	494.45 µg/L	494.45 ppb	06:35:51
1	Se 196.026†	1370.6	1452.9	2294.0 µg/L	2294.0 ppb	06:35:51
1	SiO2†	45283.2	47159.8	10860 µg/L	10860 ppb	06:35:31
1	Si 251.611†	54548.0	58149.0	5106.7 µg/L	5106.7 ppb	06:35:31
1	Sn 189.927†	899.0	963.8	503.75 µg/L	503.75 ppb	06:35:51
1	Ti 334.940†	189242.7	202545.9	485.52 µg/L	485.52 ppb	06:35:31
1	Tl 190.801†	260.0	304.2	477.61 µg/L	477.61 ppb	06:35:51
1	U 409.014†	4840.5	5185.4	428.54 µg/L	428.54 ppb	06:35:31
1	V 292.402†	40057.1	42933.7	510.07 µg/L	510.07 ppb	06:35:31
1	Zn 213.857†	17923.1	18732.4	461.32 µg/L	461.32 ppb	06:35:31
2	Sc RADIAL	52838.8	52838.8	98.5 %		06:35:03
2	Al 396.153Radial†	625992.9	635695.8	471620 µg/L	471620 ppb	06:34:57
2	Ca 317.933Radial†	459759.4	466696.6	451400 µg/L	451400 ppb	06:34:57
2	Fe 238.204 Radial†	19909.5	20203.8	178080 µg/L	178080 ppb	06:35:03
2	K 766.490 Radial†	6567.8	6518.3	4902.6 µg/L	4902.6 ppb	06:35:03
2	Mg 279.077 IEC†	47501.2	48224.8	458550 µg/L	458550 ppb	06:35:03
2	Na 589.592 Radial†	14543.5	14268.1	4761.8 µg/L	4761.8 ppb	06:35:03
2	Sr 421.552†	44176.1	44822.3	489.20 µg/L	489.20 ppb	06:35:03
2	Sc 361.383	1741904.4	1741904.4	92.506 %		06:35:57
2	Y 371.029	1190567.6	1190567.6	91.828 %		06:35:57
2	Ag 328.068†	25904.3	28590.7	253.76 µg/L	253.76 ppb	06:36:03
2	As 188.979†	214.2	231.3	467.32 µg/L	467.32 ppb	06:36:24
2	B 249.677†	11027.9	11645.9	453.32 µg/L	453.32 ppb	06:36:03
2	Ba 233.527†	16711.2	18095.6	507.66 µg/L	507.66 ppb	06:36:03
2	Be 313.107†	318727.2	348115.1	239.71 µg/L	239.71 ppb	06:35:57
2	Cd 226.502†	14967.0	16317.8	463.08 µg/L	463.08 ppb	06:36:03
2	Co 228.616†	7604.7	8238.5	433.31 µg/L	433.31 ppb	06:36:24
2	Cr 267.716†	19466.2	21077.0	489.54 µg/L	489.54 ppb	06:36:03
2	Cu 324.752†	67155.1	69893.2	540.55 µg/L	540.55 ppb	06:36:03
2	Mn 257.610†	120005.4	129997.3	475.97 µg/L	475.97 ppb	06:36:03
2	Mo 202.031†	4018.4	4353.6	482.28 µg/L	482.28 ppb	06:36:24
2	Ni 231.604†	7018.0	7289.0	427.56 µg/L	427.56 ppb	06:36:24
2	P 214.914†	1135.3	1200.0	2670.2 µg/L	2670.2 ppb	06:36:24
2	Pb 220.353†	1583.4	1621.6	480.77 µg/L	480.77 ppb	06:36:24

2	S 181.975 Axial†	531.0	560.0	2709.5 µg/L	2709.5 ppb	06:36:24
2	Sb 206.836†	514.0	532.8	507.92 µg/L	507.92 ppb	06:36:24
2	Se 196.026†	1357.3	1452.5	2296.5 µg/L	2296.5 ppb	06:36:24
2	SiO2†	45472.9	47828.5	11014 µg/L	11014 ppb	06:36:03
2	Si 251.611†	54818.7	59000.1	5181.4 µg/L	5181.4 ppb	06:36:03
2	Sn 189.927†	892.0	965.4	504.54 µg/L	504.54 ppb	06:36:24
2	Ti 334.940†	190747.4	206109.8	494.44 µg/L	494.44 ppb	06:36:03
2	Tl 190.801†	242.1	287.5	453.10 µg/L	453.10 ppb	06:36:24
2	U 409.014†	4895.6	5294.5	438.73 µg/L	438.73 ppb	06:36:03
2	V 292.402†	40267.1	43570.7	517.40 µg/L	517.40 ppb	06:36:03
2	Zn 213.857†	17965.0	18961.2	467.30 µg/L	467.30 ppb	06:36:03
3	Sc RADIAL	52608.3	52608.3	98.0 %		06:35:14
3	Al 396.153Radial†	631591.5	644191.6	477920 µg/L	477920 ppb	06:35:08
3	Ca 317.933Radial†	463702.3	472764.0	457270 µg/L	457270 ppb	06:35:08
3	Fe 238.204 Radial†	20109.5	20496.4	180660 µg/L	180660 ppb	06:35:14
3	K 766.490 Radial†	6604.6	6585.1	4952.8 µg/L	4952.8 ppb	06:35:14
3	Mg 279.077 IEC†	47808.6	48749.7	463540 µg/L	463540 ppb	06:35:14
3	Na 589.592 Radial†	14726.4	14519.3	4845.6 µg/L	4845.6 ppb	06:35:14
3	Sr 421.552†	44590.1	45441.2	495.95 µg/L	495.95 ppb	06:35:14
3	Sc 361.383	1759801.9	1759801.9	93.456 %		06:36:30
3	Y 371.029	1203590.0	1203590.0	92.833 %		06:36:30
3	Ag 328.068†	25765.5	28157.3	250.23 µg/L	250.23 ppb	06:36:36
3	As 188.979†	218.0	233.1	470.80 µg/L	470.80 ppb	06:36:57
3	B 249.677†	10974.0	11467.0	443.58 µg/L	443.58 ppb	06:36:36
3	Ba 233.527†	16485.6	17670.5	495.74 µg/L	495.74 ppb	06:36:36
3	Be 313.107†	315811.0	341490.7	235.15 µg/L	235.15 ppb	06:36:30
3	Cd 226.502†	14846.9	16024.8	454.12 µg/L	454.12 ppb	06:36:36
3	Co 228.616†	7672.0	8226.9	432.72 µg/L	432.72 ppb	06:36:57
3	Cr 267.716†	19323.6	20710.3	481.02 µg/L	481.02 ppb	06:36:36
3	Cu 324.752†	66674.2	68640.3	531.66 µg/L	531.66 ppb	06:36:36
3	Mn 257.610†	119214.5	127831.7	468.27 µg/L	468.27 ppb	06:36:36
3	Mo 202.031†	4061.5	4355.6	482.59 µg/L	482.59 ppb	06:36:57
3	Ni 231.604†	7075.7	7273.6	426.70 µg/L	426.70 ppb	06:36:57
3	P 214.914†	1149.9	1203.2	2678.1 µg/L	2678.1 ppb	06:36:57
3	Pb 220.353†	1605.4	1627.7	482.78 µg/L	482.78 ppb	06:36:57
3	S 181.975 Axial†	540.5	564.3	2730.5 µg/L	2730.5 ppb	06:36:57
3	Sb 206.836†	517.8	531.2	505.90 µg/L	505.90 ppb	06:36:57
3	Se 196.026†	1370.9	1452.2	2297.0 µg/L	2297.0 ppb	06:36:57
3	SiO2†	45017.7	46841.5	10786 µg/L	10786 ppb	06:36:36
3	Si 251.611†	54305.1	57847.9	5080.3 µg/L	5080.3 ppb	06:36:36
3	Sn 189.927†	892.4	956.0	500.26 µg/L	500.26 ppb	06:36:57
3	Ti 334.940†	188580.4	201694.1	482.92 µg/L	482.92 ppb	06:36:36
3	Tl 190.801†	252.4	295.9	465.74 µg/L	465.74 ppb	06:36:57
3	U 409.014†	4832.2	5172.8	426.73 µg/L	426.73 ppb	06:36:36
3	V 292.402†	39879.9	42713.8	508.01 µg/L	508.01 ppb	06:36:36
3	Zn 213.857†	17799.4	18586.5	456.95 µg/L	456.95 ppb	06:36:36

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1753421.5	93.117 %	0.5307			0.57%
Sc RADIAL	52648.9	98.1 %	0.32			0.33%
Y 371.029	1198745.6	92.459 %	0.5494			0.59%
Ag 328.068†	28354.8	251.78 µg/L	1.804	251.78 ppb	1.804	0.72%
QC value within limits for Ag 328.068 Recovery = 100.71%						
Al 396.153Radial†	640259.6	475010 µg/L	3177.6	475010 ppb	3177.6	0.67%
QC value within limits for Al 396.153Radial Recovery = 95.00%						
As 188.979†	233.7	472.16 µg/L	5.655	472.16 ppb	5.655	1.20%
QC value within limits for As 188.979 Recovery = 94.43%						
B 249.677†	11552.2	448.66 µg/L	4.883	448.66 ppb	4.883	1.09%
QC value within limits for B 249.677 Recovery = 89.73%						
Ba 233.527†	17854.9	500.91 µg/L	6.117	500.91 ppb	6.117	1.22%
QC value within limits for Ba 233.527 Recovery = 100.18%						
Be 313.107†	343952.4	236.84 µg/L	2.496	236.84 ppb	2.496	1.05%
QC value within limits for Be 313.107 Recovery = 94.74%						
Ca 317.933Radial†	469929.0	454530 µg/L	2953.1	454530 ppb	2953.1	0.65%
QC value within limits for Ca 317.933Radial Recovery = 90.91%						
Cd 226.502†	16141.2	457.80 µg/L	4.690	457.80 ppb	4.690	1.02%
QC value within limits for Cd 226.502 Recovery = 91.56%						
Co 228.616†	8236.5	433.22 µg/L	0.461	433.22 ppb	0.461	0.11%

QC value within limits for Co 228.616 Recovery = 86.64%							
Cr 267.716†	20866.8	484.66 µg/L	4.394	484.66 ppb	4.394	0.91%	
QC value within limits for Cr 267.716 Recovery = 96.93%							
Cu 324.752†	69139.0	535.06 µg/L	4.804	535.06 ppb	4.804	0.90%	
QC value within limits for Cu 324.752 Recovery = 107.01%							
Fe 238.204 Radial†	20260.2	178580 µg/L	1882.8	178580 ppb	1882.8	1.05%	
QC value within limits for Fe 238.204 Radial Recovery = 89.29%							
K 766.490 Radial†	6535.8	4915.8 µg/L	32.48	4915.8 ppb	32.48	0.66%	
QC value within limits for K 766.490 Radial Recovery = 98.32%							
Mg 279.077 IEC†	48367.7	459900 µg/L	3178.7	459900 ppb	3178.7	0.69%	
QC value within limits for Mg 279.077 IEC Recovery = 91.98%							
Mn 257.610†	128758.3	471.49 µg/L	3.998	471.49 ppb	3.998	0.85%	
QC value within limits for Mn 257.610 Recovery = 94.30%							
Mo 202.031†	4357.2	482.69 µg/L	0.469	482.69 ppb	0.469	0.10%	
QC value within limits for Mo 202.031 Recovery = 96.54%							
Na 589.592 Radial†	14361.3	4792.9 µg/L	45.91	4792.9 ppb	45.91	0.96%	
QC value within limits for Na 589.592 Radial Recovery = 95.86%							
Ni 231.604†	7295.2	427.93 µg/L	1.454	427.93 ppb	1.454	0.34%	
QC value within limits for Ni 231.604 Recovery = 85.59%							
P 214.914†	1199.8	2670.9 µg/L	6.81	2670.9 ppb	6.81	0.25%	
QC value within limits for P 214.914 Recovery = 106.84%							
Pb 220.353†	1627.8	482.72 µg/L	1.918	482.72 ppb	1.918	0.40%	
QC value within limits for Pb 220.353 Recovery = 96.54%							
S 181.975 Axial†	558.6	2702.9 µg/L	31.48	2702.9 ppb	31.48	1.16%	
QC value within limits for S 181.975 Axial Recovery = 108.11%							
Sb 206.836†	527.9	502.75 µg/L	7.263	502.75 ppb	7.263	1.44%	
QC value within limits for Sb 206.836 Recovery = 100.55%							
Se 196.026†	1452.5	2295.8 µg/L	1.61	2295.8 ppb	1.61	0.07%	
QC value within limits for Se 196.026 Recovery = 91.83%							
SiO2†	47276.6	10887 µg/L	116.0	10887 ppb	116.0	1.07%	
QC value within limits for SiO2 Recovery = 101.79%							
Si 251.611†	58332.3	5122.8 µg/L	52.48	5122.8 ppb	52.48	1.02%	
QC value within limits for Si 251.611 Recovery = 102.46%							
Sn 189.927†	961.7	502.85 µg/L	2.277	502.85 ppb	2.277	0.45%	
QC value within limits for Sn 189.927 Recovery = 100.57%							
Sr 421.552†	44995.4	491.09 µg/L	4.249	491.09 ppb	4.249	0.87%	
QC value within limits for Sr 421.552 Recovery = 98.22%							
Ti 334.940†	203449.9	487.63 µg/L	6.041	487.63 ppb	6.041	1.24%	
QC value within limits for Ti 334.940 Recovery = 97.53%							
Tl 190.801†	295.9	465.48 µg/L	12.259	465.48 ppb	12.259	2.63%	
QC value within limits for Tl 190.801 Recovery = 93.10%							
U 409.014†	5217.6	431.33 µg/L	6.470	431.33 ppb	6.470	1.50%	
QC value within limits for U 409.014 Recovery = 86.27%							
V 292.402†	43072.7	511.83 µg/L	4.933	511.83 ppb	4.933	0.96%	
QC value within limits for V 292.402 Recovery = 102.37%							
Zn 213.857†	18760.0	461.86 µg/L	5.198	461.86 ppb	5.198	1.13%	
QC value within limits for Zn 213.857 Recovery = 92.37%							

All analyte(s) passed QC.

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

Autosampler Location: 105
 Date Collected: 2/9/2010 06:37:06
 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	52125.5	52125.5	97.1 %		06:37:47
1	Al 396.153Radial†	617951.5	636116.7	471940 µg/L	471940 ppb	06:37:41
1	Ca 317.933Radial†	456324.1	469549.1	454160 µg/L	454160 ppb	06:37:41
1	Fe 238.204 Radial†	47807.7	49198.0	433630 µg/L	433630 ppb	06:37:47
1	K 766.490 Radial†	50.3	-99.3	-74.715 µg/L	-74.715 ppb	06:37:47
1	Mg 279.077 IEC†	46374.1	47724.7	453510 µg/L	453510 ppb	06:37:47
1	Na 589.592 Radial†	1338934.8	1377758.5	459810 µg/L	459810 ppb	06:37:41
1	Sr 421.552†	452.6	428.5	4.6771 µg/L	4.6771 ppb	06:37:47
1	Sc 361.383	1750086.4	1750086.4	92.940 %		06:38:21
1	Y 371.029	1188631.6	1188631.6	91.679 %		06:38:21
1	Ag 328.068†	-4852.3	-4633.1	-11.887 µg/L	-11.887 ppb	06:38:27
1	As 188.979†	-23.4	-25.4	-51.324 µg/L	-51.324 ppb	06:38:48
1	B 249.677†	1481.3	1318.4	-164.51 µg/L	-164.51 ppb	06:38:27
1	Ba 233.527†	528.5	599.2	16.665 µg/L	16.665 ppb	06:38:48
1	Be 313.107†	-10678.9	-7923.0	-5.4740 µg/L	-5.4740 ppb	06:38:27
1	Cd 226.502†	922.9	1131.3	-15.540 µg/L	-15.540 ppb	06:38:27
1	Co 228.616†	164.9	195.2	10.190 µg/L	10.190 ppb	06:38:48
1	Cr 267.716†	133.8	177.8	4.0860 µg/L	4.0860 ppb	06:38:48
1	Cu 324.752†	-7712.4	-11000.5	-20.908 µg/L	-20.908 ppb	06:38:27
1	Mn 257.610†	-6491.7	-6714.9	15.204 µg/L	15.204 ppb	06:38:21
1	Mo 202.031†	-178.8	-182.7	-3.4786 µg/L	-3.4786 ppb	06:38:48
1	Ni 231.604†	94.7	-195.6	-5.8023 µg/L	-5.8023 ppb	06:38:48
1	P 214.914†	285.5	279.9	428.08 µg/L	428.08 ppb	06:38:48
1	Pb 220.353†	164.0	86.5	20.301 µg/L	20.301 ppb	06:38:48
1	S 181.975 Axial†	16.9	4.2	20.132 µg/L	20.132 ppb	06:38:48
1	Sb 206.836†	40.3	20.4	-18.971 µg/L	-18.971 ppb	06:38:48
1	Se 196.026†	-101.0	-123.4	455.66 µg/L	455.66 ppb	06:38:48
1	SiO2†	1080.1	-166.2	-38.273 µg/L	-38.273 ppb	06:38:48
1	Si 251.611†	-244.8	-523.0	-45.929 µg/L	-45.929 ppb	06:38:48
1	Sn 189.927†	-43.1	-45.3	-17.092 µg/L	-17.092 ppb	06:38:48
1	Ti 334.940†	13269.3	14186.7	7.4326 µg/L	7.4326 ppb	06:38:27
1	Tl 190.801†	-47.7	-25.5	33.192 µg/L	33.192 ppb	06:38:48
1	U 409.014†	133636.6	143789.8	13247 µg/L	13247 ppb	06:38:27
1	V 292.402†	-5371.5	-5738.0	0.0692 µg/L	0.0692 ppb	06:38:27
1	Zn 213.857†	2589.1	2326.5	15.744 µg/L	15.744 ppb	06:38:48
2	Sc RADIAL	52040.3	52040.3	97.0 %		06:37:59
2	Al 396.153Radial†	622703.0	642057.7	476350 µg/L	476350 ppb	06:37:53
2	Ca 317.933Radial†	460315.5	474433.8	458890 µg/L	458890 ppb	06:37:53
2	Fe 238.204 Radial†	48095.2	49575.0	436950 µg/L	436950 ppb	06:37:59
2	K 766.490 Radial†	51.0	-98.5	-74.104 µg/L	-74.104 ppb	06:37:59
2	Mg 279.077 IEC†	46537.5	47971.3	455850 µg/L	455850 ppb	06:37:59
2	Na 589.592 Radial†	1349996.5	1391421.0	464370 µg/L	464370 ppb	06:37:53
2	Sr 421.552†	459.8	436.7	4.7664 µg/L	4.7664 ppb	06:37:59
2	Sc 361.383	1732218.3	1732218.3	91.991 %		06:38:54
2	Y 371.029	1177207.8	1177207.8	90.798 %		06:38:54
2	Ag 328.068†	-4823.4	-4655.5	-11.881 µg/L	-11.881 ppb	06:39:00
2	As 188.979†	-23.0	-25.2	-51.017 µg/L	-51.017 ppb	06:39:20
2	B 249.677†	1501.0	1356.3	-164.47 µg/L	-164.47 ppb	06:39:00
2	Ba 233.527†	529.6	606.4	16.860 µg/L	16.860 ppb	06:39:20
2	Be 313.107†	-10676.8	-8039.4	-5.5543 µg/L	-5.5543 ppb	06:39:00
2	Cd 226.502†	980.7	1204.4	-13.755 µg/L	-13.755 ppb	06:39:00
2	Co 228.616†	179.9	213.3	11.141 µg/L	11.141 ppb	06:39:20
2	Cr 267.716†	122.4	166.8	3.8305 µg/L	3.8305 ppb	06:39:20
2	Cu 324.752†	-7889.6	-11278.7	-22.499 µg/L	-22.499 ppb	06:39:00
2	Mn 257.610†	-6428.8	-6718.6	15.538 µg/L	15.538 ppb	06:38:54
2	Mo 202.031†	-174.8	-180.3	-3.0927 µg/L	-3.0927 ppb	06:39:20
2	Ni 231.604†	87.6	-202.3	-6.1502 µg/L	-6.1502 ppb	06:39:20
2	P 214.914†	275.8	272.5	410.01 µg/L	410.01 ppb	06:39:20
2	Pb 220.353†	163.3	87.5	20.441 µg/L	20.441 ppb	06:39:20

2	S 181.975 Axial†	29.6	18.1	87.704 µg/L	87.704 ppb	06:39:20
2	Sb 206.836†	52.4	34.1	-5.3614 µg/L	-5.3614 ppb	06:39:20
2	Se 196.026†	-124.1	-149.6	419.09 µg/L	419.09 ppb	06:39:20
2	SiO2†	1116.9	-114.2	-26.293 µg/L	-26.293 ppb	06:39:20
2	Si 251.611†	-191.7	-468.0	-41.102 µg/L	-41.102 ppb	06:39:20
2	Sn 189.927†	-53.3	-56.8	-22.832 µg/L	-22.832 ppb	06:39:20
2	Ti 334.940†	13258.4	14322.1	7.6668 µg/L	7.6668 ppb	06:39:00
2	Tl 190.801†	-49.2	-27.7	30.644 µg/L	30.644 ppb	06:39:20
2	U 409.014†	134869.4	146613.1	13508 µg/L	13508 ppb	06:39:00
2	V 292.402†	-5515.5	-5954.2	-1.7027 µg/L	-1.7027 ppb	06:39:00
2	Zn 213.857†	2576.8	2342.0	15.869 µg/L	15.869 ppb	06:39:20
3	Sc RADIAL	52517.1	52517.1	97.9 %		06:38:10
3	Al 396.153Radial†	620873.1	634358.9	470640 µg/L	470640 ppb	06:38:05
3	Ca 317.933Radial†	456851.5	466585.5	451300 µg/L	451300 ppb	06:38:05
3	Fe 238.204 Radial†	49114.4	50166.2	442160 µg/L	442160 ppb	06:38:10
3	K 766.490 Radial†	45.8	-104.4	-78.532 µg/L	-78.532 ppb	06:38:10
3	Mg 279.077 IEC†	47327.4	48342.7	459380 µg/L	459380 ppb	06:38:10
3	Na 589.592 Radial†	1345708.1	1374402.1	458690 µg/L	458690 ppb	06:38:05
3	Sr 421.552†	484.4	457.6	4.9941 µg/L	4.9941 ppb	06:38:10
3	Sc 361.383	1743332.0	1743332.0	92.582 %		06:39:27
3	Y 371.029	1182881.8	1182881.8	91.236 %		06:39:27
3	Ag 328.068†	-4830.5	-4629.7	-11.322 µg/L	-11.322 ppb	06:39:33
3	As 188.979†	-33.8	-36.8	-74.291 µg/L	-74.291 ppb	06:39:53
3	B 249.677†	1490.2	1334.2	-168.22 µg/L	-168.22 ppb	06:39:33
3	Ba 233.527†	520.6	592.9	16.488 µg/L	16.488 ppb	06:39:53
3	Be 313.107†	-10652.4	-7939.0	-5.4845 µg/L	-5.4845 ppb	06:39:33
3	Cd 226.502†	983.5	1200.6	-14.456 µg/L	-14.456 ppb	06:39:33
3	Co 228.616†	182.2	214.5	11.210 µg/L	11.210 ppb	06:39:53
3	Cr 267.716†	120.6	164.1	3.7680 µg/L	3.7680 ppb	06:39:53
3	Cu 324.752†	-7756.6	-11080.4	-20.311 µg/L	-20.311 ppb	06:39:33
3	Mn 257.610†	-6368.8	-6609.2	16.486 µg/L	16.486 ppb	06:39:27
3	Mo 202.031†	-182.1	-187.0	-3.6214 µg/L	-3.6214 ppb	06:39:53
3	Ni 231.604†	60.6	-232.1	-7.8251 µg/L	-7.8251 ppb	06:39:53
3	P 214.914†	293.0	289.2	441.94 µg/L	441.94 ppb	06:39:53
3	Pb 220.353†	172.8	96.6	22.803 µg/L	22.803 ppb	06:39:53
3	S 181.975 Axial†	30.4	18.8	91.062 µg/L	91.062 ppb	06:39:53
3	Sb 206.836†	47.4	28.4	-10.640 µg/L	-10.640 ppb	06:39:53
3	Se 196.026†	-117.3	-141.4	445.47 µg/L	445.47 ppb	06:39:53
3	SiO2†	1071.1	-171.3	-39.457 µg/L	-39.457 ppb	06:39:53
3	Si 251.611†	-249.1	-528.7	-46.430 µg/L	-46.430 ppb	06:39:53
3	Sn 189.927†	-46.0	-48.6	-18.907 µg/L	-18.907 ppb	06:39:53
3	Ti 334.940†	12776.6	13709.9	5.7114 µg/L	5.7114 ppb	06:39:33
3	Tl 190.801†	-34.0	-11.0	56.247 µg/L	56.247 ppb	06:39:53
3	U 409.014†	132873.9	143523.1	13221 µg/L	13221 ppb	06:39:33
3	V 292.402†	-5359.7	-5747.6	0.9351 µg/L	0.9351 ppb	06:39:33
3	Zn 213.857†	2607.1	2356.8	15.821 µg/L	15.821 ppb	06:39:53

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1741878.9	92.504 %	0.4791			0.52%
Sc RADIAL	52227.7	97.3 %	0.47			0.49%
Y 371.029	1182907.0	91.238 %	0.4406			0.48%
Ag 328.068†	-4639.4	-11.697 µg/L	0.3246	-11.697 ppb	0.3246	2.78%
Al 396.153Radial†	637511.1	472980 µg/L	2993.1	472980 ppb	2993.1	0.63%
QC value within limits for Al 396.153Radial Recovery = 94.60%						
As 188.979†	-29.1	-58.877 µg/L	13.3496	-58.877 ppb	13.3496	22.67%
B 249.677†	1336.3	-165.74 µg/L	2.156	-165.74 ppb	2.156	1.30%
Ba 233.527†	599.5	16.671 µg/L	0.1862	16.671 ppb	0.1862	1.12%
Be 313.107†	-7967.1	-5.5043 µg/L	0.04364	-5.5043 ppb	0.04364	0.79%
Ca 317.933Radial†	470189.5	454780 µg/L	3833.3	454780 ppb	3833.3	0.84%
QC value within limits for Ca 317.933Radial Recovery = 90.96%						
Cd 226.502†	1178.8	-14.584 µg/L	0.8991	-14.584 ppb	0.8991	6.17%
Co 228.616†	207.7	10.847 µg/L	0.5702	10.847 ppb	0.5702	5.26%
Cr 267.716†	169.6	3.8948 µg/L	0.16849	3.8948 ppb	0.16849	4.33%
Cu 324.752†	-11119.9	-21.239 µg/L	1.1311	-21.239 ppb	1.1311	5.33%
Fe 238.204 Radial†	49646.4	437580 µg/L	4301.4	437580 ppb	4301.4	0.98%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 87.52%						
K 766.490 Radial†	-100.8	-75.784 µg/L	2.3993	-75.784 ppb	2.3993	3.17%
Mg 279.077 IEC†	48012.9	456240 µg/L	2954.7	456240 ppb	2954.7	0.65%

QC value within limits for Mg 279.077 IEC Recovery = 91.25%							
Mn 257.610†	-6680.9	15.743 µg/L	0.6652	15.743 ppb	0.6652	4.23%	
Mo 202.031†	-183.3	-3.3976 µg/L	0.27351	-3.3976 ppb	0.27351	8.05%	
Na 589.592 Radial†	1381193.9	460950 µg/L	3008.5	460950 ppb	3008.5	0.65%	
QC value within limits for Na 589.592 Radial Recovery = 92.19%							
Ni 231.604†	-210.0	-6.5925 µg/L	1.08153	-6.5925 ppb	1.08153	16.41%	
P 214.914†	280.6	426.68 µg/L	16.007	426.68 ppb	16.007	3.75%	
Pb 220.353†	90.2	21.182 µg/L	1.4062	21.182 ppb	1.4062	6.64%	
S 181.975 Axial†	13.7	66.299 µg/L	40.0176	66.299 ppb	40.0176	60.36%	
Sb 206.836†	27.6	-11.657 µg/L	6.8616	-11.657 ppb	6.8616	58.86%	
Se 196.026†	-138.1	440.07 µg/L	18.876	440.07 ppb	18.876	4.29%	
SiO2†	-150.6	-34.674 µg/L	7.2824	-34.674 ppb	7.2824	21.00%	
Si 251.611†	-506.6	-44.487 µg/L	2.9420	-44.487 ppb	2.9420	6.61%	
Sn 189.927†	-50.2	-19.610 µg/L	2.9338	-19.610 ppb	2.9338	14.96%	
Sr 421.552†	440.9	4.8125 µg/L	0.16345	4.8125 ppb	0.16345	3.40%	
Ti 334.940†	14072.9	6.9369 µg/L	1.06780	6.9369 ppb	1.06780	15.39%	
Tl 190.801†	-21.4	40.028 µg/L	14.1039	40.028 ppb	14.1039	35.24%	
U 409.014†	144642.0	13326 µg/L	158.7	13326 ppb	158.7	1.19%	
QC value less than the lower limit for U 409.014 Recovery = 88.84%							
V 292.402†	-5813.3	-0.2328 µg/L	1.34459	-0.2328 ppb	1.34459	577.50%	
Zn 213.857†	2341.8	15.811 µg/L	0.0632	15.811 ppb	0.0632	0.40%	
QC Failed. Continue with analysis.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 2/9/2010 06:40:03

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	53471.2	53471.2	99.7 %		06:40:45
1	Al 396.153Radial†	280.9	298.1	14.772 µg/L	14.772 ppb	06:40:45
1	Ca 317.933Radial†	258.6	82.3	79.650 µg/L	79.650 ppb	06:41:05
1	Fe 238.204 Radial†	2.9	-10.9	111.33 µg/L	111.33 ppb	06:41:05
1	K 766.490 Radial†	397491.1	398717.3	299890 µg/L	299890 ppb	06:40:40
1	Mg 279.077 IEC†	2.8	-8.7	86.658 µg/L	86.658 ppb	06:41:05
1	Na 589.592 Radial†	1069.7	572.9	191.20 µg/L	191.20 ppb	06:40:45
1	Sr 421.552†	899699.2	902779.4	9853.1 µg/L	9853.1 ppb	06:40:40
1	Sc 361.383	1844176.6	1844176.6	97.937 %		06:42:36
1	Y 371.029	1257393.8	1257393.8	96.983 %		06:42:36
1	Ag 328.068†	-6828.2	-6384.2	14.993 µg/L	14.993 ppb	06:42:36
1	As 188.979†	4664.4	4762.4	9890.1 µg/L	9890.1 ppb	06:42:57
1	B 249.677†	105998.4	107955.6	5096.2 µg/L	5096.2 ppb	06:42:36
1	Ba 233.527†	485775.0	496037.6	13910 µg/L	13910 ppb	06:42:36
1	Be 313.107†	4160565.2	4251767.4	2926.3 µg/L	2926.3 ppb	06:42:26
1	Cd 226.502†	327892.1	334936.9	9919.3 µg/L	9919.3 ppb	06:42:36
1	Co 228.616†	181622.9	185466.2	9757.7 µg/L	9757.7 ppb	06:42:36
1	Cr 267.716†	1053037.2	1075251.4	24965 µg/L	24965 ppb	06:42:36
1	Cu 324.752†	2787843.4	2843862.3	20987 µg/L	20987 ppb	06:42:36
1	Mn 257.610†	2616077.7	2671450.9	9671.5 µg/L	9671.5 ppb	06:42:36
1	Mo 202.031†	90073.4	91980.3	10046 µg/L	10046 ppb	06:42:36
1	Ni 231.604†	167198.2	170422.4	9943.1 µg/L	9943.1 ppb	06:42:36
1	P 214.914†	6780.9	6896.5	13612 µg/L	13612 ppb	06:42:57
1	Pb 220.353†	87948.4	89710.9	25530 µg/L	25530 ppb	06:42:36
1	S 181.975 Axial†	10895.6	11111.1	53762 µg/L	53762 ppb	06:42:57
1	Sb 206.836†	10328.4	10523.1	10645 µg/L	10645 ppb	06:42:57
1	Se 196.026†	6035.2	6147.6	9919.7 µg/L	9919.7 ppb	06:42:57
1	SiO2†	433261.6	441059.2	101560 µg/L	101560 ppb	06:42:36
1	Si 251.611†	529168.6	540055.0	47428 µg/L	47428 ppb	06:42:36
1	Sn 189.927†	21477.3	21930.8	10715 µg/L	10715 ppb	06:42:57
1	Ti 334.940†	3889417.8	3971251.2	10086 µg/L	10086 ppb	06:42:26
1	Tl 190.801†	6406.1	6566.8	9882.7 µg/L	9882.7 ppb	06:42:57
1	U 409.014†	610.1	625.3	57.999 µg/L	57.999 ppb	06:42:36
1	V 292.402†	901124.0	920146.2	10507 µg/L	10507 ppb	06:42:36
1	Zn 213.857†	550387.0	561520.8	14862 µg/L	14862 ppb	06:42:36
2	Sc RADIAL	54373.6	54373.6	101 %		06:41:17
2	Al 396.153Radial†	346.4	358.0	74.571 µg/L	74.571 ppb	06:41:17
2	Ca 317.933Radial†	274.2	93.4	90.375 µg/L	90.375 ppb	06:41:37
2	Fe 238.204 Radial†	4.4	-9.4	108.84 µg/L	108.84 ppb	06:41:37
2	K 766.490 Radial†	390294.2	384995.6	289560 µg/L	289560 ppb	06:41:12
2	Mg 279.077 IEC†	-1.9	-13.3	29.763 µg/L	29.763 ppb	06:41:37
2	Na 589.592 Radial†	1092.5	577.6	192.75 µg/L	192.75 ppb	06:41:17
2	Sr 421.552†	881609.7	869945.2	9494.8 µg/L	9494.8 ppb	06:41:12
2	Sc 361.383	1838306.5	1838306.5	97.625 %		06:43:17
2	Y 371.029	1253914.3	1253914.3	96.714 %		06:43:17
2	Ag 328.068†	-6452.1	-6021.2	12.811 µg/L	12.811 ppb	06:43:17
2	As 188.979†	4092.0	4191.3	8703.2 µg/L	8703.2 ppb	06:43:37
2	B 249.677†	100626.7	102798.9	4851.0 µg/L	4851.0 ppb	06:43:17
2	Ba 233.527†	454699.1	465789.7	13062 µg/L	13062 ppb	06:43:17
2	Be 313.107†	4054438.6	4156624.7	2860.8 µg/L	2860.8 ppb	06:43:06
2	Cd 226.502†	304818.6	312371.3	9251.0 µg/L	9251.0 ppb	06:43:17
2	Co 228.616†	167627.2	171722.3	9033.5 µg/L	9033.5 ppb	06:43:17
2	Cr 267.716†	952841.5	976051.9	22662 µg/L	22662 ppb	06:43:17
2	Cu 324.752†	2574569.5	2634490.4	19442 µg/L	19442 ppb	06:43:17
2	Mn 257.610†	2416178.4	2475218.8	8961.1 µg/L	8961.1 ppb	06:43:17
2	Mo 202.031†	83100.8	85131.8	9298.3 µg/L	9298.3 ppb	06:43:17
2	Ni 231.604†	154476.6	157936.5	9214.6 µg/L	9214.6 ppb	06:43:17
2	P 214.914†	5783.0	5896.5	11477 µg/L	11477 ppb	06:43:37
2	Pb 220.353†	82775.2	84698.5	24104 µg/L	24104 ppb	06:43:17

2	S 181.975 Axial†	9554.8	9773.2	47288 µg/L	47288 ppb	06:43:37
2	Sb 206.836†	8927.2	9121.5	9225.4 µg/L	9225.4 ppb	06:43:37
2	Se 196.026†	5277.1	5390.7	8698.5 µg/L	8698.5 ppb	06:43:37
2	SiO2†	407651.7	416239.0	95849 µg/L	95849 ppb	06:43:17
2	Si 251.611†	497817.4	509666.5	44759 µg/L	44759 ppb	06:43:17
2	Sn 189.927†	17858.2	18293.7	8938.1 µg/L	8938.1 ppb	06:43:37
2	Ti 334.940†	3788027.9	3880076.4	9854.2 µg/L	9854.2 ppb	06:43:06
2	Tl 190.801†	5833.2	6000.9	9036.7 µg/L	9036.7 ppb	06:43:37
2	U 409.014†	610.4	627.6	58.210 µg/L	58.210 ppb	06:43:17
2	V 292.402†	829722.1	849945.6	9704.7 µg/L	9704.7 ppb	06:43:17
2	Zn 213.857†	510303.9	522257.2	13823 µg/L	13823 ppb	06:43:17
3	Sc RADIAL	53844.8	53844.8	100 %		06:41:49
3	Al 396.153Radial†	301.7	316.8	95.488 µg/L	95.488 ppb	06:41:49
3	Ca 317.933Radial†	253.4	75.4	72.895 µg/L	72.895 ppb	06:42:09
3	Fe 238.204 Radial†	3.4	-10.4	48.830 µg/L	48.830 ppb	06:42:09
3	K 766.490 Radial†	393562.3	392034.8	294860 µg/L	294860 ppb	06:41:43
3	Mg 279.077 IEC†	-2.4	-13.8	-16.698 µg/L	-16.698 ppb	06:42:09
3	Na 589.592 Radial†	1018.3	514.3	171.63 µg/L	171.63 ppb	06:41:49
3	Sr 421.552†	891776.5	888620.4	9698.6 µg/L	9698.6 ppb	06:41:43
3	Sc 361.383	1871393.0	1871393.0	99.382 %		06:43:56
3	Y 371.029	1275840.9	1275840.9	98.406 %		06:43:56
3	Ag 328.068†	-4868.7	-4311.1	9.9797 µg/L	9.9797 ppb	06:43:56
3	As 188.979†	2859.0	2876.5	5972.2 µg/L	5972.2 ppb	06:44:17
3	B 249.677†	77579.6	77786.3	3669.3 µg/L	3669.3 ppb	06:43:56
3	Ba 233.527†	343751.7	345918.3	9700.2 µg/L	9700.2 ppb	06:43:56
3	Be 313.107†	3123530.4	3146505.7	2165.6 µg/L	2165.6 ppb	06:43:46
3	Cd 226.502†	229269.9	230832.8	6836.1 µg/L	6836.1 ppb	06:43:56
3	Co 228.616†	125086.3	125881.3	6621.6 µg/L	6621.6 ppb	06:43:56
3	Cr 267.716†	697408.0	701775.2	16294 µg/L	16294 ppb	06:43:56
3	Cu 324.752†	1927245.7	1936518.5	14291 µg/L	14291 ppb	06:43:56
3	Mn 257.610†	1810873.9	1822395.9	6597.6 µg/L	6597.6 ppb	06:43:56
3	Mo 202.031†	61802.3	62195.9	6793.2 µg/L	6793.2 ppb	06:43:56
3	Ni 231.604†	115461.8	115881.7	6761.0 µg/L	6761.0 ppb	06:43:56
3	P 214.914†	4015.9	4013.6	7701.0 µg/L	7701.0 ppb	06:44:17
3	Pb 220.353†	63161.3	63463.7	18061 µg/L	18061 ppb	06:43:56
3	S 181.975 Axial†	6653.1	6680.5	32324 µg/L	32324 ppb	06:44:17
3	Sb 206.836†	6234.4	6250.3	6319.7 µg/L	6319.7 ppb	06:44:17
3	Se 196.026†	3708.3	3716.6	5997.1 µg/L	5997.1 ppb	06:44:17
3	SiO2†	312584.2	313198.2	72122 µg/L	72122 ppb	06:43:56
3	Si 251.611†	381690.8	383802.8	33706 µg/L	33706 ppb	06:43:56
3	Sn 189.927†	12440.5	12519.0	6116.6 µg/L	6116.6 ppb	06:44:17
3	Ti 334.940†	2904324.0	2922279.7	7421.7 µg/L	7421.7 ppb	06:43:46
3	Tl 190.801†	4143.6	4195.1	6322.3 µg/L	6322.3 ppb	06:44:17
3	U 409.014†	457.4	462.5	42.905 µg/L	42.905 ppb	06:43:56
3	V 292.402†	615564.6	619431.0	7072.3 µg/L	7072.3 ppb	06:43:56
3	Zn 213.857†	384373.2	386302.3	10225 µg/L	10225 ppb	06:43:56

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1851292.0	98.315 %	0.9375			0.95%
Sc RADIAL	53896.5	100 %	0.8			0.84%
Y 371.029	1262383.0	97.368 %	0.9089			0.93%
Ag 328.068†	-5572.2	12.595 µg/L	2.5136	12.595 ppb	2.5136	19.96%
Al 396.153Radial†	324.3	61.611 µg/L	41.8898	61.611 ppb	41.8898	67.99%
As 188.979†	3943.4	8188.5 µg/L	2009.01	8188.5 ppb	2009.01	24.53%
QC value less than the lower limit for As 188.979 Recovery = 81.89%						
B 249.677†	96180.3	4538.9 µg/L	762.95	4538.9 ppb	762.95	16.81%
QC value within limits for B 249.677 Recovery = 90.78%						
Ba 233.527†	435915.2	12224 µg/L	2226.6	12224 ppb	2226.6	18.22%
QC value less than the lower limit for Ba 233.527 Recovery = 81.49%						
Be 313.107†	3851632.6	2650.9 µg/L	421.56	2650.9 ppb	421.56	15.90%
QC value less than the lower limit for Be 313.107 Recovery = 88.36%						
Ca 317.933Radial†	83.7	80.973 µg/L	8.8148	80.973 ppb	8.8148	10.89%
Cd 226.502†	292713.7	8668.8 µg/L	1621.94	8668.8 ppb	1621.94	18.71%
QC value less than the lower limit for Cd 226.502 Recovery = 86.69%						
Co 228.616†	161023.3	8471.0 µg/L	1642.00	8471.0 ppb	1642.00	19.38%
QC value less than the lower limit for Co 228.616 Recovery = 84.71%						
Cr 267.716†	917692.9	21307 µg/L	4491.5	21307 ppb	4491.5	21.08%
QC value less than the lower limit for Cr 267.716 Recovery = 85.23%						

Cu 324.752†	2471623.7	18240 µg/L	3506.1	18240 ppb	3506.1	19.22%
QC value within limits for Cu 324.752 Recovery = 91.20%						
Fe 238.204 Radial†	-10.3	89.666 µg/L	35.3867	89.666 ppb	35.3867	39.47%
K 766.490 Radial†	391915.9	294770 µg/L	5160.8	294770 ppb	5160.8	1.75%
QC value within limits for K 766.490 Radial Recovery = 98.26%						
Mg 279.077 IEC†	-11.9	33.241 µg/L	51.7655	33.241 ppb	51.7655	155.73%
Mn 257.610†	2323021.8	8410.1 µg/L	1609.30	8410.1 ppb	1609.30	19.14%
QC value less than the lower limit for Mn 257.610 Recovery = 84.10%						
Mo 202.031†	79769.3	8712.6 µg/L	1703.81	8712.6 ppb	1703.81	19.56%
QC value less than the lower limit for Mo 202.031 Recovery = 87.13%						
Na 589.592 Radial†	554.9	185.19 µg/L	11.775	185.19 ppb	11.775	6.36%
Ni 231.604†	148080.2	8639.6 µg/L	1667.17	8639.6 ppb	1667.17	19.30%
QC value less than the lower limit for Ni 231.604 Recovery = 86.40%						
P 214.914†	5602.2	10930 µg/L	2993.3	10930 ppb	2993.3	27.39%
QC value less than the lower limit for P 214.914 Recovery = 72.87%						
Pb 220.353†	79291.0	22565 µg/L	3965.4	22565 ppb	3965.4	17.57%
QC value within limits for Pb 220.353 Recovery = 90.26%						
S 181.975 Axial†	9188.3	44458 µg/L	10995.7	44458 ppb	10995.7	24.73%
QC value less than the lower limit for S 181.975 Axial Recovery = 88.92%						
Sb 206.836†	8631.6	8730.1 µg/L	2204.88	8730.1 ppb	2204.88	25.26%
QC value less than the lower limit for Sb 206.836 Recovery = 87.30%						
Se 196.026†	5085.0	8205.1 µg/L	2007.31	8205.1 ppb	2007.31	24.46%
QC value less than the lower limit for Se 196.026 Recovery = 82.05%						
SiO2†	390165.4	89845 µg/L	15612.9	89845 ppb	15612.9	17.38%
QC value less than the lower limit for SiO2 Recovery = 83.97%						
Si 251.611†	477841.4	41964 µg/L	7275.5	41964 ppb	7275.5	17.34%
QC value less than the lower limit for Si 251.611 Recovery = 83.93%						
Sn 189.927†	17581.1	8590.0 µg/L	2318.96	8590.0 ppb	2318.96	27.00%
QC value less than the lower limit for Sn 189.927 Recovery = 85.90%						
Sr 421.552†	887115.0	9682.1 µg/L	179.74	9682.1 ppb	179.74	1.86%
QC value within limits for Sr 421.552 Recovery = 96.82%						
Ti 334.940†	3591202.4	9120.6 µg/L	1475.80	9120.6 ppb	1475.80	16.18%
QC value within limits for Ti 334.940 Recovery = 91.21%						
Tl 190.801†	5587.6	8413.9 µg/L	1860.08	8413.9 ppb	1860.08	22.11%
QC value less than the lower limit for Tl 190.801 Recovery = 84.14%						
U 409.014†	571.8	53.038 µg/L	8.7760	53.038 ppb	8.7760	16.55%
V 292.402†	796507.6	9094.7 µg/L	1796.80	9094.7 ppb	1796.80	19.76%
QC value within limits for V 292.402 Recovery = 90.95%						
Zn 213.857†	490026.8	12970 µg/L	2433.4	12970 ppb	2433.4	18.76%
QC value less than the lower limit for Zn 213.857 Recovery = 86.47%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/9/2010 06:44:26

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	53694.2	53694.2	100 %		06:45:04
1	Al 396.153Radial†	6322.0	6333.8	4688.7 µg/L	4688.7 ppb	06:45:04
1	Ca 317.933Radial†	4934.1	4753.5	4597.7 µg/L	4597.7 ppb	06:45:24
1	Fe 238.204 Radial†	550.8	536.6	4740.6 µg/L	4740.6 ppb	06:45:24
1	K 766.490 Radial†	6829.9	6674.0	5019.7 µg/L	5019.7 ppb	06:45:04
1	Mg 279.077 IEC†	518.6	506.8	4824.8 µg/L	4824.8 ppb	06:45:24
1	Na 589.592 Radial†	29222.1	28701.0	9578.5 µg/L	9578.5 ppb	06:45:04
1	Sr 421.552†	44331.7	44263.2	483.10 µg/L	483.10 ppb	06:45:04
1	Sc 361.383	1866127.6	1866127.6	99.103 %		06:46:27
1	Y 371.029	1278528.8	1278528.8	98.613 %		06:46:27
1	Ag 328.068†	58377.9	59494.2	501.57 µg/L	501.57 ppb	06:46:33
1	As 188.979†	248.5	250.6	520.40 µg/L	520.40 ppb	06:46:54
1	B 249.677†	10803.9	10626.3	496.04 µg/L	496.04 ppb	06:46:33
1	Ba 233.527†	17648.3	17838.7	500.48 µg/L	500.48 ppb	06:46:33
1	Be 313.107†	710643.3	720643.4	496.45 µg/L	496.45 ppb	06:46:27
1	Cd 226.502†	16628.4	16917.3	500.48 µg/L	500.48 ppb	06:46:33
1	Co 228.616†	9450.1	9553.4	502.65 µg/L	502.65 ppb	06:46:33
1	Cr 267.716†	21569.5	21798.6	506.29 µg/L	506.29 ppb	06:46:33
1	Cu 324.752†	70553.8	68490.2	506.10 µg/L	506.10 ppb	06:46:33
1	Mn 257.610†	133387.1	134864.5	488.69 µg/L	488.69 ppb	06:46:33
1	Mo 202.031†	4593.8	4645.1	507.53 µg/L	507.53 ppb	06:46:54
1	Ni 231.604†	8814.8	8597.1	501.63 µg/L	501.63 ppb	06:46:33
1	P 214.914†	1142.0	1125.1	2508.2 µg/L	2508.2 ppb	06:46:54
1	Pb 220.353†	1903.0	1830.1	521.13 µg/L	521.13 ppb	06:46:54
1	S 181.975 Axial†	223.5	211.5	1023.2 µg/L	1023.2 ppb	06:46:54
1	Sb 206.836†	524.0	505.9	519.59 µg/L	519.59 ppb	06:46:54
1	Se 196.026†	316.9	305.0	499.59 µg/L	499.59 ppb	06:46:54
1	SiO2†	24359.2	23251.4	5354.2 µg/L	5354.2 ppb	06:46:33
1	Si 251.611†	28505.0	28503.4	2503.2 µg/L	2503.2 ppb	06:46:33
1	Sn 189.927†	1057.2	1067.9	521.82 µg/L	521.82 ppb	06:46:54
1	Ti 334.940†	195454.7	197133.5	500.35 µg/L	500.35 ppb	06:46:27
1	Tl 190.801†	308.7	337.2	508.54 µg/L	508.54 ppb	06:46:54
1	U 409.014†	5366.3	5417.2	501.45 µg/L	501.45 ppb	06:46:33
1	V 292.402†	44033.1	44473.3	507.47 µg/L	507.47 ppb	06:46:33
1	Zn 213.857†	19270.9	18986.2	501.62 µg/L	501.62 ppb	06:46:33
2	Sc RADIAL	53439.9	53439.9	99.6 %		06:45:30
2	Al 396.153Radial†	6251.6	6293.2	4658.7 µg/L	4658.7 ppb	06:45:30
2	Ca 317.933Radial†	4964.6	4807.6	4650.1 µg/L	4650.1 ppb	06:45:50
2	Fe 238.204 Radial†	552.5	540.9	4778.3 µg/L	4778.3 ppb	06:45:50
2	K 766.490 Radial†	6789.6	6666.0	5013.7 µg/L	5013.7 ppb	06:45:30
2	Mg 279.077 IEC†	520.9	511.6	4869.8 µg/L	4869.8 ppb	06:45:50
2	Na 589.592 Radial†	29185.7	28803.5	9612.7 µg/L	9612.7 ppb	06:45:30
2	Sr 421.552†	44104.0	44245.4	482.90 µg/L	482.90 ppb	06:45:30
2	Sc 361.383	1861492.6	1861492.6	98.857 %		06:47:00
2	Y 371.029	1275680.3	1275680.3	98.393 %		06:47:00
2	Ag 328.068†	59013.3	60283.6	508.21 µg/L	508.21 ppb	06:47:06
2	As 188.979†	246.0	248.7	516.48 µg/L	516.48 ppb	06:47:26
2	B 249.677†	10936.8	10787.8	503.59 µg/L	503.59 ppb	06:47:06
2	Ba 233.527†	17771.5	18007.7	505.23 µg/L	505.23 ppb	06:47:06
2	Be 313.107†	707420.9	719169.2	495.44 µg/L	495.44 ppb	06:47:00
2	Cd 226.502†	16738.2	17070.1	505.00 µg/L	505.00 ppb	06:47:06
2	Co 228.616†	9501.5	9629.1	506.64 µg/L	506.64 ppb	06:47:06
2	Cr 267.716†	21675.1	21959.5	510.03 µg/L	510.03 ppb	06:47:06
2	Cu 324.752†	70989.1	69107.8	510.67 µg/L	510.67 ppb	06:47:06
2	Mn 257.610†	134377.2	136201.2	493.53 µg/L	493.53 ppb	06:47:06
2	Mo 202.031†	4540.5	4602.6	502.89 µg/L	502.89 ppb	06:47:26
2	Ni 231.604†	8871.9	8676.9	506.30 µg/L	506.30 ppb	06:47:06
2	P 214.914†	1116.6	1102.3	2455.8 µg/L	2455.8 ppb	06:47:26
2	Pb 220.353†	1880.5	1812.2	515.99 µg/L	515.99 ppb	06:47:26

2	S 181.975 Axial†	221.7	210.3	1017.5 µg/L	1017.5 ppb	06:47:26
2	Sb 206.836†	520.8	503.9	517.50 µg/L	517.50 ppb	06:47:26
2	Se 196.026†	320.8	309.8	507.26 µg/L	507.26 ppb	06:47:26
2	SiO2†	24569.0	23524.9	5417.2 µg/L	5417.2 ppb	06:47:06
2	Si 251.611†	28836.1	28909.9	2538.9 µg/L	2538.9 ppb	06:47:06
2	Sn 189.927†	1051.0	1064.3	520.03 µg/L	520.03 ppb	06:47:26
2	Ti 334.940†	194462.6	196621.1	499.05 µg/L	499.05 ppb	06:47:00
2	Tl 190.801†	311.3	340.7	513.74 µg/L	513.74 ppb	06:47:26
2	U 409.014†	5405.6	5470.5	506.39 µg/L	506.39 ppb	06:47:06
2	V 292.402†	44324.6	44878.8	512.02 µg/L	512.02 ppb	06:47:06
2	Zn 213.857†	19397.8	19163.0	506.29 µg/L	506.29 ppb	06:47:06
3	Sc RADIAL	53153.8	53153.8	99.1 %		06:45:56
3	Al 396.153Radial†	6247.6	6322.9	4681.9 µg/L	4681.9 ppb	06:45:56
3	Ca 317.933Radial†	4969.7	4839.5	4681.0 µg/L	4681.0 ppb	06:46:16
3	Fe 238.204 Radial†	554.5	545.9	4822.0 µg/L	4822.0 ppb	06:46:16
3	K 766.490 Radial†	6684.4	6596.5	4961.4 µg/L	4961.4 ppb	06:45:56
3	Mg 279.077 IEC†	524.6	518.1	4931.0 µg/L	4931.0 ppb	06:46:16
3	Na 589.592 Radial†	29057.5	28831.7	9622.2 µg/L	9622.2 ppb	06:45:56
3	Sr 421.552†	44041.8	44420.9	484.82 µg/L	484.82 ppb	06:45:56
3	Sc 361.383	1859737.5	1859737.5	98.764 %		06:47:33
3	Y 371.029	1274404.9	1274404.9	98.295 %		06:47:33
3	Ag 328.068†	56448.8	57743.3	486.74 µg/L	486.74 ppb	06:47:39
3	As 188.979†	217.0	219.5	455.88 µg/L	455.88 ppb	06:47:59
3	B 249.677†	10398.7	10253.5	478.48 µg/L	478.48 ppb	06:47:39
3	Ba 233.527†	16795.2	17036.1	477.96 µg/L	477.96 ppb	06:47:39
3	Be 313.107†	681096.7	693190.9	477.54 µg/L	477.54 ppb	06:47:33
3	Cd 226.502†	15783.0	16118.9	476.82 µg/L	476.82 ppb	06:47:39
3	Co 228.616†	8948.1	9077.9	477.58 µg/L	477.58 ppb	06:47:39
3	Cr 267.716†	20004.6	20288.9	471.23 µg/L	471.23 ppb	06:47:39
3	Cu 324.752†	66920.9	65056.4	480.77 µg/L	480.77 ppb	06:47:39
3	Mn 257.610†	125968.0	127815.1	463.17 µg/L	463.17 ppb	06:47:39
3	Mo 202.031†	3985.4	4045.0	441.98 µg/L	441.98 ppb	06:47:59
3	Ni 231.604†	8354.6	8161.7	476.23 µg/L	476.23 ppb	06:47:39
3	P 214.914†	998.0	983.2	2187.3 µg/L	2187.3 ppb	06:47:59
3	Pb 220.353†	1710.9	1642.2	467.52 µg/L	467.52 ppb	06:47:59
3	S 181.975 Axial†	207.5	196.0	948.55 µg/L	948.55 ppb	06:47:59
3	Sb 206.836†	464.6	447.6	459.28 µg/L	459.28 ppb	06:47:59
3	Se 196.026†	291.0	280.0	459.20 µg/L	459.20 ppb	06:47:59
3	SiO2†	23344.6	22308.6	5137.1 µg/L	5137.1 ppb	06:47:39
3	Si 251.611†	27318.5	27400.9	2406.4 µg/L	2406.4 ppb	06:47:39
3	Sn 189.927†	905.1	917.6	448.37 µg/L	448.37 ppb	06:47:59
3	Ti 334.940†	186936.1	189186.0	480.16 µg/L	480.16 ppb	06:47:33
3	Tl 190.801†	291.4	320.9	483.89 µg/L	483.89 ppb	06:47:59
3	U 409.014†	5037.8	5103.2	472.32 µg/L	472.32 ppb	06:47:39
3	V 292.402†	41469.5	42030.2	479.32 µg/L	479.32 ppb	06:47:39
3	Zn 213.857†	18220.6	17989.6	475.25 µg/L	475.25 ppb	06:47:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1862452.6	98.908 %	0.1753			0.18%
Sc RADIAL	53429.3	99.6 %	0.50			0.51%
Y 371.029	1276204.7	98.434 %	0.1629			0.17%
Ag 328.068†	59173.7	498.84 µg/L	10.993	498.84 ppb	10.993	2.20%
QC value within limits for Ag 328.068 Recovery = 99.77%						
Al 396.153Radial†	6316.6	4676.4 µg/L	15.75	4676.4 ppb	15.75	0.34%
QC value within limits for Al 396.153Radial Recovery = 93.53%						
As 188.979†	239.6	497.59 µg/L	36.172	497.59 ppb	36.172	7.27%
QC value within limits for As 188.979 Recovery = 99.52%						
B 249.677†	10555.9	492.71 µg/L	12.884	492.71 ppb	12.884	2.62%
QC value within limits for B 249.677 Recovery = 98.54%						
Ba 233.527†	17627.5	494.56 µg/L	14.569	494.56 ppb	14.569	2.95%
QC value within limits for Ba 233.527 Recovery = 98.91%						
Be 313.107†	711001.2	489.81 µg/L	10.638	489.81 ppb	10.638	2.17%
QC value within limits for Be 313.107 Recovery = 97.96%						
Ca 317.933Radial†	4800.2	4642.9 µg/L	42.07	4642.9 ppb	42.07	0.91%
QC value within limits for Ca 317.933Radial Recovery = 92.86%						
Cd 226.502†	16702.1	494.10 µg/L	15.132	494.10 ppb	15.132	3.06%
QC value within limits for Cd 226.502 Recovery = 98.82%						
Co 228.616†	9420.1	495.63 µg/L	15.750	495.63 ppb	15.750	3.18%

QC value within limits for Co 228.616 Recovery = 99.13%							
Cr 267.716†	21349.0	495.85 µg/L	21.403	495.85 ppb	21.403	4.32%	
QC value within limits for Cr 267.716 Recovery = 99.17%							
Cu 324.752†	67551.5	499.18 µg/L	16.103	499.18 ppb	16.103	3.23%	
QC value within limits for Cu 324.752 Recovery = 99.84%							
Fe 238.204 Radial†	541.2	4780.3 µg/L	40.74	4780.3 ppb	40.74	0.85%	
QC value within limits for Fe 238.204 Radial Recovery = 95.61%							
K 766.490 Radial†	6645.5	4998.2 µg/L	32.05	4998.2 ppb	32.05	0.64%	
QC value within limits for K 766.490 Radial Recovery = 99.96%							
Mg 279.077 IEC†	512.2	4875.2 µg/L	53.34	4875.2 ppb	53.34	1.09%	
QC value within limits for Mg 279.077 IEC Recovery = 97.50%							
Mn 257.610†	132960.3	481.80 µg/L	16.309	481.80 ppb	16.309	3.39%	
QC value within limits for Mn 257.610 Recovery = 96.36%							
Mo 202.031†	4430.9	484.13 µg/L	36.576	484.13 ppb	36.576	7.55%	
QC value within limits for Mo 202.031 Recovery = 96.83%							
Na 589.592 Radial†	28778.7	9604.5 µg/L	22.95	9604.5 ppb	22.95	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 96.04%							
Ni 231.604†	8478.6	494.72 µg/L	16.181	494.72 ppb	16.181	3.27%	
QC value within limits for Ni 231.604 Recovery = 98.94%							
P 214.914†	1070.2	2383.8 µg/L	172.13	2383.8 ppb	172.13	7.22%	
QC value within limits for P 214.914 Recovery = 95.35%							
Pb 220.353†	1761.5	501.54 µg/L	29.579	501.54 ppb	29.579	5.90%	
QC value within limits for Pb 220.353 Recovery = 100.31%							
S 181.975 Axial†	205.9	996.42 µg/L	41.558	996.42 ppb	41.558	4.17%	
QC value within limits for S 181.975 Axial Recovery = 99.64%							
Sb 206.836†	485.8	498.79 µg/L	34.232	498.79 ppb	34.232	6.86%	
QC value within limits for Sb 206.836 Recovery = 99.76%							
Se 196.026†	298.3	488.69 µg/L	25.819	488.69 ppb	25.819	5.28%	
QC value within limits for Se 196.026 Recovery = 97.74%							
SiO2†	23028.3	5302.8 µg/L	146.93	5302.8 ppb	146.93	2.77%	
QC value within limits for SiO2 Recovery = 99.16%							
Si 251.611†	28271.4	2482.8 µg/L	68.57	2482.8 ppb	68.57	2.76%	
QC value within limits for Si 251.611 Recovery = 99.31%							
Sn 189.927†	1016.6	496.74 µg/L	41.899	496.74 ppb	41.899	8.43%	
QC value within limits for Sn 189.927 Recovery = 99.35%							
Sr 421.552†	44309.8	483.61 µg/L	1.054	483.61 ppb	1.054	0.22%	
QC value within limits for Sr 421.552 Recovery = 96.72%							
Ti 334.940†	194313.5	493.19 µg/L	11.300	493.19 ppb	11.300	2.29%	
QC value within limits for Ti 334.940 Recovery = 98.64%							
Tl 190.801†	332.9	502.06 µg/L	15.949	502.06 ppb	15.949	3.18%	
QC value within limits for Tl 190.801 Recovery = 100.41%							
U 409.014†	5330.3	493.39 µg/L	18.410	493.39 ppb	18.410	3.73%	
QC value within limits for U 409.014 Recovery = 98.68%							
V 292.402†	43794.1	499.60 µg/L	17.711	499.60 ppb	17.711	3.55%	
QC value within limits for V 292.402 Recovery = 99.92%							
Zn 213.857†	18712.9	494.38 µg/L	16.739	494.38 ppb	16.739	3.39%	
QC value within limits for Zn 213.857 Recovery = 98.88%							
All analyte(s) passed QC.							

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/9/2010 06:48:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52577.2	52577.2	98.0 %		06:48:42
1	Al 396.153Radial†	-23.2	-7.5	-5.5690 µg/L	-5.5690 ppb	06:48:42
1	Ca 317.933Radial†	183.5	10.1	9.7737 µg/L	9.7737 ppb	06:49:03
1	Fe 238.204 Radial†	16.7	3.2	28.318 µg/L	28.318 ppb	06:49:03
1	K 766.490 Radial†	238.5	92.2	69.338 µg/L	69.338 ppb	06:48:42
1	Mg 279.077 IEC†	13.2	2.1	19.707 µg/L	19.707 ppb	06:49:03
1	Na 589.592 Radial†	645.7	158.5	52.889 µg/L	52.889 ppb	06:48:42
1	Sr 421.552†	55.9	19.7	0.2145 µg/L	0.2145 ppb	06:48:42
1	Sc 361.383	1820730.6	1820730.6	96.692 %		06:50:04
1	Y 371.029	1250782.5	1250782.5	96.473 %		06:50:04
1	Ag 328.068†	-553.9	14.9	0.1324 µg/L	0.1324 ppb	06:50:10
1	As 188.979†	0.5	0.3	0.6077 µg/L	0.6077 ppb	06:50:31
1	B 249.677†	368.7	105.9	4.9447 µg/L	4.9447 ppb	06:50:31
1	Ba 233.527†	-8.6	21.7	0.6105 µg/L	0.6105 ppb	06:50:31
1	Be 313.107†	-3595.2	-151.2	-0.1043 µg/L	-0.1043 ppb	06:50:10
1	Cd 226.502†	-129.8	4.1	0.1192 µg/L	0.1192 ppb	06:50:31
1	Co 228.616†	-3.6	14.1	0.7400 µg/L	0.7400 ppb	06:50:31
1	Cr 267.716†	-23.1	9.8	0.2291 µg/L	0.2291 ppb	06:50:31
1	Cu 324.752†	3048.3	450.3	3.3273 µg/L	3.3273 ppb	06:50:10
1	Mn 257.610†	-196.1	67.1	0.2460 µg/L	0.2460 ppb	06:50:31
1	Mo 202.031†	-6.7	2.8	0.3050 µg/L	0.3050 ppb	06:50:31
1	Ni 231.604†	290.0	2.4	0.1397 µg/L	0.1397 ppb	06:50:31
1	P 214.914†	34.4	8.3	18.570 µg/L	18.570 ppb	06:50:31
1	Pb 220.353†	112.9	26.8	7.6232 µg/L	7.6232 ppb	06:50:31
1	S 181.975 Axial†	15.7	2.2	10.469 µg/L	10.469 ppb	06:50:31
1	Sb 206.836†	22.2	0.1	0.1220 µg/L	0.1220 ppb	06:50:31
1	Se 196.026†	11.9	-2.3	-3.7317 µg/L	-3.7317 ppb	06:50:31
1	SiO2†	1356.0	74.1	17.057 µg/L	17.057 ppb	06:50:10
1	Si 251.611†	336.0	87.9	7.7207 µg/L	7.7207 ppb	06:50:31
1	Sn 189.927†	2.5	3.7	1.7980 µg/L	1.7980 ppb	06:50:31
1	Ti 334.940†	169.5	84.8	0.2139 µg/L	0.2139 ppb	06:50:10
1	Tl 190.801†	-20.6	4.5	6.7557 µg/L	6.7557 ppb	06:50:31
1	U 409.014†	-94.0	-94.9	-8.8096 µg/L	-8.8096 ppb	06:50:10
1	V 292.402†	33.6	76.3	0.8568 µg/L	0.8568 ppb	06:50:10
1	Zn 213.857†	514.5	72.9	1.9300 µg/L	1.9300 ppb	06:50:31
2	Sc RADIAL	52574.8	52574.8	98.0 %		06:49:08
2	Al 396.153Radial†	-11.6	4.3	3.1745 µg/L	3.1745 ppb	06:49:08
2	Ca 317.933Radial†	188.4	15.1	14.603 µg/L	14.603 ppb	06:49:29
2	Fe 238.204 Radial†	16.2	2.7	23.628 µg/L	23.628 ppb	06:49:29
2	K 766.490 Radial†	232.7	86.3	64.929 µg/L	64.929 ppb	06:49:08
2	Mg 279.077 IEC†	12.5	1.3	12.233 µg/L	12.233 ppb	06:49:29
2	Na 589.592 Radial†	685.7	199.3	66.513 µg/L	66.513 ppb	06:49:08
2	Sr 421.552†	63.2	27.1	0.2957 µg/L	0.2957 ppb	06:49:08
2	Sc 361.383	1876575.2	1876575.2	99.658 %		06:50:37
2	Y 371.029	1290383.3	1290383.3	99.527 %		06:50:37
2	Ag 328.068†	-498.8	87.3	0.7333 µg/L	0.7333 ppb	06:50:42
2	As 188.979†	2.8	2.6	5.4874 µg/L	5.4874 ppb	06:51:03
2	B 249.677†	365.9	91.7	4.2827 µg/L	4.2827 ppb	06:51:03
2	Ba 233.527†	-9.5	21.1	0.5905 µg/L	0.5905 ppb	06:51:03
2	Be 313.107†	-3528.6	26.3	0.0181 µg/L	0.0181 ppb	06:50:42
2	Cd 226.502†	-120.4	17.5	0.5147 µg/L	0.5147 ppb	06:51:03
2	Co 228.616†	-12.2	5.5	0.2909 µg/L	0.2909 ppb	06:51:03
2	Cr 267.716†	-18.1	15.6	0.3631 µg/L	0.3631 ppb	06:51:03
2	Cu 324.752†	3053.9	362.1	2.6752 µg/L	2.6752 ppb	06:50:42
2	Mn 257.610†	-173.8	95.5	0.3486 µg/L	0.3486 ppb	06:51:03
2	Mo 202.031†	-2.2	7.5	0.8176 µg/L	0.8176 ppb	06:51:03
2	Ni 231.604†	302.3	5.8	0.3413 µg/L	0.3413 ppb	06:51:03
2	P 214.914†	26.9	-0.3	-0.9072 µg/L	-0.9072 ppb	06:51:03
2	Pb 220.353†	113.7	24.1	6.8653 µg/L	6.8653 ppb	06:51:03

2	S 181.975 Axial†	16.4	2.4	11.667 µg/L	11.667 ppb	06:51:03
2	Sb 206.836†	27.0	4.2	4.3476 µg/L	4.3476 ppb	06:51:03
2	Se 196.026†	11.5	-3.2	-5.1003 µg/L	-5.1003 ppb	06:51:03
2	SiO2†	1355.8	32.1	7.3935 µg/L	7.3935 ppb	06:50:42
2	Si 251.611†	327.2	68.7	6.0338 µg/L	6.0338 ppb	06:51:03
2	Sn 189.927†	3.8	4.9	2.4058 µg/L	2.4058 ppb	06:51:03
2	Ti 334.940†	127.8	37.7	0.0950 µg/L	0.0950 ppb	06:50:42
2	Tl 190.801†	-27.8	-2.1	-3.0957 µg/L	-3.0957 ppb	06:51:03
2	U 409.014†	-152.5	-150.7	-13.981 µg/L	-13.981 ppb	06:50:42
2	V 292.402†	-30.2	11.2	0.1220 µg/L	0.1220 ppb	06:50:42
2	Zn 213.857†	507.0	49.5	1.3093 µg/L	1.3093 ppb	06:51:03
3	Sc RADIAL	52751.8	52751.8	98.3 %		06:49:34
3	Al 396.153Radial†	0.1	16.3	12.043 µg/L	12.043 ppb	06:49:34
3	Ca 317.933Radial†	185.8	11.9	11.492 µg/L	11.492 ppb	06:49:54
3	Fe 238.204 Radial†	16.1	2.6	22.523 µg/L	22.523 ppb	06:49:54
3	K 766.490 Radial†	194.0	46.2	34.755 µg/L	34.755 ppb	06:49:34
3	Mg 279.077 IEC†	17.6	6.5	61.414 µg/L	61.414 ppb	06:49:54
3	Na 589.592 Radial†	604.2	114.0	38.044 µg/L	38.044 ppb	06:49:34
3	Sr 421.552†	57.5	21.1	0.2300 µg/L	0.2300 ppb	06:49:34
3	Sc 361.383	1868478.1	1868478.1	99.228 %		06:51:09
3	Y 371.029	1285588.1	1285588.1	99.157 %		06:51:09
3	Ag 328.068†	-527.8	55.9	0.4748 µg/L	0.4748 ppb	06:51:14
3	As 188.979†	-1.6	-1.8	-3.8060 µg/L	-3.8060 ppb	06:51:35
3	B 249.677†	362.6	90.0	4.2027 µg/L	4.2027 ppb	06:51:35
3	Ba 233.527†	-9.0	21.6	0.6060 µg/L	0.6060 ppb	06:51:35
3	Be 313.107†	-3478.7	61.2	0.0421 µg/L	0.0421 ppb	06:51:14
3	Cd 226.502†	-132.2	5.0	0.1472 µg/L	0.1472 ppb	06:51:35
3	Co 228.616†	-9.3	8.4	0.4428 µg/L	0.4428 ppb	06:51:35
3	Cr 267.716†	-22.4	11.2	0.2610 µg/L	0.2610 ppb	06:51:35
3	Cu 324.752†	3031.5	352.8	2.6068 µg/L	2.6068 ppb	06:51:14
3	Mn 257.610†	-179.1	89.5	0.3245 µg/L	0.3245 ppb	06:51:35
3	Mo 202.031†	-3.0	6.7	0.7284 µg/L	0.7284 ppb	06:51:35
3	Ni 231.604†	302.0	6.8	0.3971 µg/L	0.3971 ppb	06:51:35
3	P 214.914†	29.0	1.9	4.1578 µg/L	4.1578 ppb	06:51:35
3	Pb 220.353†	112.1	23.0	6.5396 µg/L	6.5396 ppb	06:51:35
3	S 181.975 Axial†	17.0	3.1	15.026 µg/L	15.026 ppb	06:51:35
3	Sb 206.836†	26.5	3.8	3.9258 µg/L	3.9258 ppb	06:51:35
3	Se 196.026†	24.5	10.0	16.153 µg/L	16.153 ppb	06:51:35
3	SiO2†	1358.5	40.8	9.3903 µg/L	9.3903 ppb	06:51:14
3	Si 251.611†	315.7	58.6	5.1448 µg/L	5.1448 ppb	06:51:35
3	Sn 189.927†	8.6	9.8	4.7799 µg/L	4.7799 ppb	06:51:35
3	Ti 334.940†	174.4	85.3	0.2119 µg/L	0.2119 ppb	06:51:14
3	Tl 190.801†	-23.8	1.8	2.6510 µg/L	2.6510 ppb	06:51:35
3	U 409.014†	-45.0	-43.0	-3.9936 µg/L	-3.9936 ppb	06:51:14
3	V 292.402†	27.8	69.6	0.7893 µg/L	0.7893 ppb	06:51:14
3	Zn 213.857†	513.3	58.1	1.5357 µg/L	1.5357 ppb	06:51:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1855261.3	98.526 %	1.6026			1.63%
Sc RADIAL	52634.6	98.1 %	0.19			0.19%
Y 371.029	1275584.6	98.386 %	1.6670			1.69%
Ag 328.068†	52.7	0.4468 µg/L	0.30140	0.4468 ppb	0.30140	67.45%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.4	3.2162 µg/L	8.80621	3.2162 ppb	8.80621	273.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.7630 µg/L	4.64867	0.7630 ppb	4.64867	609.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	95.8	4.4767 µg/L	0.40727	4.4767 ppb	0.40727	9.10%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.5	0.6023 µg/L	0.01051	0.6023 ppb	0.01051	1.74%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-21.2	-0.0147 µg/L	0.07849	-0.0147 ppb	0.07849	533.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	12.4	11.956 µg/L	2.4479	11.956 ppb	2.4479	20.47%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.9	0.2604 µg/L	0.22069	0.2604 ppb	0.22069	84.75%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	9.3	0.4912 µg/L	0.22845	0.4912 ppb	0.22845	46.51%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	12.2	0.2844 µg/L	0.07000	0.2844 ppb	0.07000	24.61%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	388.4	2.8698 µg/L	0.39771	2.8698 ppb	0.39771	13.86%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.8	24.823 µg/L	3.0767	24.823 ppb	3.0767	12.39%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	74.9	56.341 µg/L	18.8233	56.341 ppb	18.8233	33.41%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	3.3	31.118 µg/L	26.5020	31.118 ppb	26.5020	85.17%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	84.0	0.3063 µg/L	0.05364	0.3063 ppb	0.05364	17.51%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.6	0.6170 µg/L	0.27385	0.6170 ppb	0.27385	44.38%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	157.3	52.482 µg/L	14.2388	52.482 ppb	14.2388	27.13%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	5.0	0.2927 µg/L	0.13540	0.2927 ppb	0.13540	46.26%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.3	7.2737 µg/L	10.10576	7.2737 ppb	10.10576	138.94%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	24.6	7.0094 µg/L	0.55597	7.0094 ppb	0.55597	7.93%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.6	12.387 µg/L	2.3626	12.387 ppb	2.3626	19.07%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.7	2.7984 µg/L	2.32748	2.7984 ppb	2.32748	83.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.5	2.4402 µg/L	11.89499	2.4402 ppb	11.89499	487.46%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	49.0	11.280 µg/L	5.1016	11.280 ppb	5.1016	45.23%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	71.7	6.2998 µg/L	1.30841	6.2998 ppb	1.30841	20.77%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.1	2.9946 µg/L	1.57569	2.9946 ppb	1.57569	52.62%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	22.6	0.2467 µg/L	0.04310	0.2467 ppb	0.04310	17.47%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	69.2	0.1736 µg/L	0.06807	0.1736 ppb	0.06807	39.22%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.4	2.1037 µg/L	4.94846	2.1037 ppb	4.94846	235.23%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-96.2	-8.9282 µg/L	4.99494	-8.9282 ppb	4.99494	55.95%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	52.4	0.5894 µg/L	0.40614	0.5894 ppb	0.40614	68.91%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	60.2	1.5916 µg/L	0.31413	1.5916 ppb	0.31413	19.74%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

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Analysis Begun

Start Time: 2/9/2010 06:56:03 Plasma On Time: 2/8/2010 03:37:33
 Logged In Analyst: optima Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima1\Sample Information\020910.sif

Batch ID:

Results Data Set: 020910

Results Library: c:\pe\optima1\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 2/9/2010 06:08:21

IEC File: 011510.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1
 Sample ID: LR1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 113
 Date Collected: 2/9/2010 06:56:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

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Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52506.2	52506.2	97.9 %		06:56:40
1	Al 396.153Radial†	-39.6	-24.3	-17.745 µg/L	-17.745 ppb	06:57:00
1	Ca 317.933Radial†	186.6	13.6	13.136 µg/L	13.136 ppb	06:57:00
1	Fe 238.204 Radial†	42671.9	43592.9	384230 µg/L	384230 ppb	06:56:40

1	K 766.490 Radial†	88.4	-60.8	-45.717 µg/L	-45.717 ppb	06:56:40
1	Mg 279.077 IEC†	31.0	20.3	-219.62 µg/L	-219.62 ppb	06:57:00
1	Na 589.592 Radial†	620.9	134.0	44.704 µg/L	44.704 ppb	06:56:40
1	Sr 421.552†	80.8	45.2	0.4931 µg/L	0.4931 ppb	06:56:40
1	Sc 361.383	1873585.5	1873585.5	99.499 %		06:58:02
1	Y 371.029	1281994.6	1281994.6	98.880 %		06:58:02
1	Ag 328.068†	-4204.3	-3637.7	-6.5210 µg/L	-6.5210 ppb	06:58:08
1	As 188.979†	-6.9	-7.1	7.5091 µg/L	7.5091 ppb	06:58:29
1	B 249.677†	1551.5	1283.9	-140.36 µg/L	-140.36 ppb	06:58:08
1	Ba 233.527†	473.9	506.9	14.120 µg/L	14.120 ppb	06:58:29
1	Be 313.107†	-3352.4	197.7	0.1363 µg/L	0.1363 ppb	06:58:08
1	Cd 226.502†	1037.9	1181.5	-8.4710 µg/L	-8.4710 ppb	06:58:08
1	Co 228.616†	153.8	172.3	9.0665 µg/L	9.0665 ppb	06:58:29
1	Cr 267.716†	-185.9	-153.1	-3.5803 µg/L	-3.5803 ppb	06:58:29
1	Cu 324.752†	-5540.9	-8271.1	-7.6319 µg/L	-7.6319 ppb	06:58:08
1	Mn 257.610†	-10161.7	-9942.9	15.098 µg/L	15.098 ppb	06:58:02
1	Mo 202.031†	-127.0	-117.9	1.7207 µg/L	1.7207 ppb	06:58:29
1	Ni 231.604†	144.7	-152.1	-3.9016 µg/L	-3.9016 ppb	06:58:29
1	P 214.914†	288.3	262.5	290.86 µg/L	290.86 ppb	06:58:29
1	Pb 220.353†	206.0	117.0	18.736 µg/L	18.736 ppb	06:58:29
1	S 181.975 Axial†	4.2	-9.8	-47.340 µg/L	-47.340 ppb	06:58:29
1	Sb 206.836†	23.8	1.1	0.9043 µg/L	0.9043 ppb	06:58:29
1	Se 196.026†	-200.1	-215.8	701.98 µg/L	701.98 ppb	06:58:29
1	SiO2†	1165.6	-156.9	-36.128 µg/L	-36.128 ppb	06:58:29
1	Si 251.611†	-525.9	-788.1	-69.213 µg/L	-69.213 ppb	06:58:29
1	Sn 189.927†	7.0	8.1	-37.004 µg/L	-37.004 ppb	06:58:29
1	Ti 334.940†	43.1	-47.2	-0.1350 µg/L	-0.1350 ppb	06:58:08
1	Tl 190.801†	-49.9	-24.4	17.755 µg/L	17.755 ppb	06:58:29
1	U 409.014†	282.9	286.6	-26.827 µg/L	-26.827 ppb	06:58:08
1	V 292.402†	-3788.5	-3766.0	2.6925 µg/L	2.6925 ppb	06:58:08
1	Zn 213.857†	2260.1	1812.3	30.093 µg/L	30.093 ppb	06:58:29
2	Sc RADIAL	52490.1	52490.1	97.8 %		06:57:06
2	Al 396.153Radial†	-46.1	-31.0	-22.732 µg/L	-22.732 ppb	06:57:26
2	Ca 317.933Radial†	192.1	19.2	18.576 µg/L	18.576 ppb	06:57:26
2	Fe 238.204 Radial†	43694.0	44651.1	393550 µg/L	393550 ppb	06:57:06
2	K 766.490 Radial†	72.7	-76.9	-57.811 µg/L	-57.811 ppb	06:57:06
2	Mg 279.077 IEC†	27.6	16.8	-262.60 µg/L	-262.60 ppb	06:57:26
2	Na 589.592 Radial†	603.1	115.9	38.693 µg/L	38.693 ppb	06:57:06
2	Sr 421.552†	66.2	30.3	0.3310 µg/L	0.3310 ppb	06:57:06
2	Sc 361.383	1868416.7	1868416.7	99.224 %		06:58:35
2	Y 371.029	1278133.1	1278133.1	98.582 %		06:58:35
2	Ag 328.068†	-4208.4	-3653.5	-6.0732 µg/L	-6.0732 ppb	06:58:41
2	As 188.979†	-13.8	-14.1	-6.4475 µg/L	-6.4475 ppb	06:59:01
2	B 249.677†	1548.3	1285.0	-145.18 µg/L	-145.18 ppb	06:58:41
2	Ba 233.527†	454.0	488.2	13.594 µg/L	13.594 ppb	06:59:01
2	Be 313.107†	-3427.0	113.1	0.0780 µg/L	0.0780 ppb	06:58:41
2	Cd 226.502†	1075.0	1221.7	-8.3363 µg/L	-8.3363 ppb	06:58:41
2	Co 228.616†	158.9	177.9	9.3613 µg/L	9.3613 ppb	06:59:01
2	Cr 267.716†	-261.5	-229.7	-5.3602 µg/L	-5.3602 ppb	06:59:01
2	Cu 324.752†	-5630.4	-8376.7	-7.1150 µg/L	-7.1150 ppb	06:58:41
2	Mn 257.610†	-10148.9	-9958.3	16.284 µg/L	16.284 ppb	06:58:35
2	Mo 202.031†	-118.8	-110.1	2.9321 µg/L	2.9321 ppb	06:59:01
2	Ni 231.604†	137.3	-159.1	-4.1899 µg/L	-4.1899 ppb	06:59:01
2	P 214.914†	281.4	256.4	269.49 µg/L	269.49 ppb	06:59:01
2	Pb 220.353†	196.8	108.3	15.907 µg/L	15.907 ppb	06:59:01
2	S 181.975 Axial†	5.5	-8.5	-41.233 µg/L	-41.233 ppb	06:59:01
2	Sb 206.836†	26.3	3.7	3.6276 µg/L	3.6276 ppb	06:59:01
2	Se 196.026†	-198.2	-214.5	729.59 µg/L	729.59 ppb	06:59:01
2	SiO2†	1156.9	-162.3	-37.385 µg/L	-37.385 ppb	06:59:01
2	Si 251.611†	-499.9	-763.4	-67.041 µg/L	-67.041 ppb	06:59:01
2	Sn 189.927†	7.9	9.1	-37.526 µg/L	-37.526 ppb	06:59:01
2	Ti 334.940†	16.3	-74.1	-0.2005 µg/L	-0.2005 ppb	06:58:41
2	Tl 190.801†	-40.2	-14.7	33.476 µg/L	33.476 ppb	06:59:01
2	U 409.014†	251.6	255.8	-30.977 µg/L	-30.977 ppb	06:58:41
2	V 292.402†	-3875.2	-3864.0	2.6858 µg/L	2.6858 ppb	06:58:41
2	Zn 213.857†	2215.2	1773.4	28.620 µg/L	28.620 ppb	06:59:01
3	Sc RADIAL	53342.3	53342.3	99.4 %		06:57:32
3	Al 396.153Radial†	-46.2	-30.3	-22.273 µg/L	-22.273 ppb	06:57:52
3	Ca 317.933Radial†	190.4	14.4	13.904 µg/L	13.904 ppb	06:57:52
3	Fe 238.204 Radial†	43699.6	43943.1	387310 µg/L	387310 ppb	06:57:32
3	K 766.490 Radial†	34.1	-116.9	-87.913 µg/L	-87.913 ppb	06:57:32

3	Mg 279.077 IEC†	30.8	19.6	-229.48 µg/L	-229.48 ppb	06:57:52
3	Na 589.592 Radial†	600.3	103.3	34.487 µg/L	34.487 ppb	06:57:32
3	Sr 421.552†	86.6	49.7	0.5426 µg/L	0.5426 ppb	06:57:32
3	Sc 361.383	1844957.1	1844957.1	97.979 %		06:59:08
3	Y 371.029	1263174.4	1263174.4	97.429 %		06:59:08
3	Ag 328.068†	-3913.1	-3406.0	-4.3741 µg/L	-4.3741 ppb	06:59:13
3	As 188.979†	-11.3	-11.7	-1.8846 µg/L	-1.8846 ppb	06:59:34
3	B 249.677†	1438.1	1192.4	-146.26 µg/L	-146.26 ppb	06:59:13
3	Ba 233.527†	405.1	444.1	12.363 µg/L	12.363 ppb	06:59:34
3	Be 313.107†	-3395.2	101.8	0.0703 µg/L	0.0703 ppb	06:59:13
3	Cd 226.502†	983.4	1142.0	-9.9859 µg/L	-9.9859 ppb	06:59:13
3	Co 228.616†	156.7	177.6	9.3480 µg/L	9.3480 ppb	06:59:34
3	Cr 267.716†	-259.4	-230.9	-5.3859 µg/L	-5.3859 ppb	06:59:34
3	Cu 324.752†	-5096.4	-7903.8	-4.4924 µg/L	-4.4924 ppb	06:59:13
3	Mn 257.610†	-9780.4	-9712.2	16.344 µg/L	16.344 ppb	06:59:08
3	Mo 202.031†	-113.0	-105.7	3.1754 µg/L	3.1754 ppb	06:59:34
3	Ni 231.604†	165.7	-128.4	-2.4760 µg/L	-2.4760 ppb	06:59:34
3	P 214.914†	236.6	214.3	178.57 µg/L	178.57 ppb	06:59:34
3	Pb 220.353†	197.7	111.7	17.137 µg/L	17.137 ppb	06:59:34
3	S 181.975 Axial†	5.6	-8.3	-40.041 µg/L	-40.041 ppb	06:59:34
3	Sb 206.836†	23.9	1.5	1.4509 µg/L	1.4509 ppb	06:59:34
3	Se 196.026†	-168.6	-186.7	757.26 µg/L	757.26 ppb	06:59:34
3	SiO2†	1176.1	-128.0	-29.467 µg/L	-29.467 ppb	06:59:34
3	Si 251.611†	-398.7	-666.5	-58.536 µg/L	-58.536 ppb	06:59:34
3	Sn 189.927†	8.3	9.6	-36.617 µg/L	-36.617 ppb	06:59:34
3	Ti 334.940†	-62.4	-154.2	-0.4061 µg/L	-0.4061 ppb	06:59:13
3	Tl 190.801†	-41.1	-16.2	30.382 µg/L	30.382 ppb	06:59:34
3	U 409.014†	177.6	183.6	-36.814 µg/L	-36.814 ppb	06:59:13
3	V 292.402†	-3554.8	-3586.6	5.0745 µg/L	5.0745 ppb	06:59:13
3	Zn 213.857†	1988.8	1570.6	23.507 µg/L	23.507 ppb	06:59:34

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1862319.8	98.901 %	0.8102			0.82%
Sc RADIAL	52779.6	98.4 %	0.91			0.92%
Y 371.029	1274434.0	98.297 %	0.7667			0.78%
Ag 328.068†	-3565.7	-5.6561 µg/L	1.13257	-5.6561 ppb	1.13257	20.02%
Al 396.153Radial†	-28.5	-20.917 µg/L	2.7567	-20.917 ppb	2.7567	13.18%
As 188.979†	-11.0	-0.2743 µg/L	7.11627	-0.2743 ppb	7.11627	>999.9%
B 249.677†	1253.7	-143.93 µg/L	3.140	-143.93 ppb	3.140	2.18%
Ba 233.527†	479.7	13.359 µg/L	0.9018	13.359 ppb	0.9018	6.75%
Be 313.107†	137.5	0.0949 µg/L	0.03606	0.0949 ppb	0.03606	38.02%
Ca 317.933Radial†	15.7	15.206 µg/L	2.9441	15.206 ppb	2.9441	19.36%
Cd 226.502†	1181.7	-8.9311 µg/L	0.91599	-8.9311 ppb	0.91599	10.26%
Co 228.616†	176.0	9.2586 µg/L	0.16652	9.2586 ppb	0.16652	1.80%
Cr 267.716†	-204.6	-4.7755 µg/L	1.03511	-4.7755 ppb	1.03511	21.68%
Cu 324.752†	-8183.9	-6.4131 µg/L	1.68332	-6.4131 ppb	1.68332	26.25%
Fe 238.204 Radial†	44062.4	388360 µg/L	4751.5	388360 ppb	4751.5	1.22%
K 766.490 Radial†	-84.8	-63.814 µg/L	21.7291	-63.814 ppb	21.7291	34.05%
Mg 279.077 IEC†	18.9	-237.23 µg/L	22.512	-237.23 ppb	22.512	9.49%
Mn 257.610†	-9871.1	15.908 µg/L	0.7028	15.908 ppb	0.7028	4.42%
Mo 202.031†	-111.2	2.6094 µg/L	0.77918	2.6094 ppb	0.77918	29.86%
Na 589.592 Radial†	117.7	39.295 µg/L	5.1352	39.295 ppb	5.1352	13.07%
Ni 231.604†	-146.5	-3.5225 µg/L	0.91770	-3.5225 ppb	0.91770	26.05%
P 214.914†	244.4	246.31 µg/L	59.627	246.31 ppb	59.627	24.21%
Pb 220.353†	112.3	17.260 µg/L	1.4185	17.260 ppb	1.4185	8.22%
S 181.975 Axial†	-8.9	-42.871 µg/L	3.9158	-42.871 ppb	3.9158	9.13%
Sb 206.836†	2.1	1.9943 µg/L	1.44067	1.9943 ppb	1.44067	72.24%
Se 196.026†	-205.7	729.61 µg/L	27.640	729.61 ppb	27.640	3.79%
SiO2†	-149.1	-34.327 µg/L	4.2552	-34.327 ppb	4.2552	12.40%
Si 251.611†	-739.3	-64.930 µg/L	5.6430	-64.930 ppb	5.6430	8.69%
Sn 189.927†	8.9	-37.049 µg/L	0.4563	-37.049 ppb	0.4563	1.23%
Sr 421.552†	41.7	0.4556 µg/L	0.11070	0.4556 ppb	0.11070	24.30%
Ti 334.940†	-91.8	-0.2472 µg/L	0.14144	-0.2472 ppb	0.14144	57.22%
Tl 190.801†	-18.4	27.205 µg/L	8.3285	27.205 ppb	8.3285	30.61%
U 409.014†	242.0	-31.539 µg/L	5.0172	-31.539 ppb	5.0172	15.91%
V 292.402†	-3738.8	3.4843 µg/L	1.37722	3.4843 ppb	1.37722	39.53%
Zn 213.857†	1718.7	27.407 µg/L	3.4570	27.407 ppb	3.4570	12.61%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/9/2010 06:59:43

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	51786.1	51786.1	96.5 %		07:00:19
1	Al 396.153Radial†	6461.1	6710.7	4968.6 µg/L	4968.6 ppb	07:00:19
1	Ca 317.933Radial†	5051.7	5057.1	4891.3 µg/L	4891.3 ppb	07:00:40
1	Fe 238.204 Radial†	578.0	585.0	5166.9 µg/L	5166.9 ppb	07:00:40
1	K 766.490 Radial†	6810.0	6904.8	5193.3 µg/L	5193.3 ppb	07:00:19
1	Mg 279.077 IEC†	532.8	540.6	5145.1 µg/L	5145.1 ppb	07:00:40
1	Na 589.592 Radial†	29817.2	30393.6	10143 µg/L	10143 ppb	07:00:19
1	Sr 421.552†	45539.6	47147.0	514.57 µg/L	514.57 ppb	07:00:19
1	Sc 361.383	1868428.0	1868428.0	99.225 %		07:01:43
1	Y 371.029	1279991.3	1279991.3	98.726 %		07:01:43
1	Ag 328.068†	57885.8	58925.7	496.79 µg/L	496.79 ppb	07:01:48
1	As 188.979†	234.5	236.1	490.32 µg/L	490.32 ppb	07:02:09
1	B 249.677†	10590.7	10398.0	485.11 µg/L	485.11 ppb	07:01:48
1	Ba 233.527†	17415.7	17582.4	493.29 µg/L	493.29 ppb	07:01:48
1	Be 313.107†	695599.5	704599.4	485.40 µg/L	485.40 ppb	07:01:43
1	Cd 226.502†	16455.9	16722.8	494.67 µg/L	494.67 ppb	07:01:48
1	Co 228.616†	9333.3	9423.9	495.84 µg/L	495.84 ppb	07:01:48
1	Cr 267.716†	21188.4	21387.6	496.75 µg/L	496.75 ppb	07:01:48
1	Cu 324.752†	69322.3	67161.4	496.36 µg/L	496.36 ppb	07:01:48
1	Mn 257.610†	131466.4	132763.2	481.12 µg/L	481.12 ppb	07:01:48
1	Mo 202.031†	4471.4	4516.0	493.45 µg/L	493.45 ppb	07:02:09
1	Ni 231.604†	8747.7	8518.5	497.06 µg/L	497.06 ppb	07:01:48
1	P 214.914†	1114.2	1095.6	2441.8 µg/L	2441.8 ppb	07:02:09
1	Pb 220.353†	1832.0	1756.3	500.08 µg/L	500.08 ppb	07:02:09
1	S 181.975 Axial†	219.5	207.2	1002.7 µg/L	1002.7 ppb	07:02:09
1	Sb 206.836†	500.6	481.7	494.70 µg/L	494.70 ppb	07:02:09
1	Se 196.026†	318.6	306.4	502.58 µg/L	502.58 ppb	07:02:09
1	SiO2†	23986.9	22845.9	5260.8 µg/L	5260.8 ppb	07:01:48
1	Si 251.611†	28056.7	28016.2	2460.4 µg/L	2460.4 ppb	07:01:48
1	Sn 189.927†	1021.5	1030.5	503.55 µg/L	503.55 ppb	07:02:09
1	Ti 334.940†	191194.8	192597.6	488.81 µg/L	488.81 ppb	07:01:43
1	Tl 190.801†	302.3	330.4	498.35 µg/L	498.35 ppb	07:02:09
1	U 409.014†	5272.8	5316.3	492.02 µg/L	492.02 ppb	07:01:48
1	V 292.402†	43508.1	43889.4	500.79 µg/L	500.79 ppb	07:01:48
1	Zn 213.857†	18969.6	18658.6	492.90 µg/L	492.90 ppb	07:01:48
2	Sc RADIAL	53721.3	53721.3	100 %		07:00:45
2	Al 396.153Radial†	6313.1	6321.7	4679.9 µg/L	4679.9 ppb	07:00:45
2	Ca 317.933Radial†	4906.3	4723.3	4568.5 µg/L	4568.5 ppb	07:01:06
2	Fe 238.204 Radial†	567.5	553.0	4884.3 µg/L	4884.3 ppb	07:01:06
2	K 766.490 Radial†	6653.4	6494.3	4884.5 µg/L	4884.5 ppb	07:00:45
2	Mg 279.077 IEC†	510.6	498.6	4745.7 µg/L	4745.7 ppb	07:01:06
2	Na 589.592 Radial†	29143.4	28607.7	9547.4 µg/L	9547.4 ppb	07:00:45
2	Sr 421.552†	44614.8	44523.6	485.94 µg/L	485.94 ppb	07:00:45
2	Sc 361.383	1869684.1	1869684.1	99.292 %		07:02:16
2	Y 371.029	1281123.2	1281123.2	98.813 %		07:02:16
2	Ag 328.068†	57877.3	58877.9	496.37 µg/L	496.37 ppb	07:02:21
2	As 188.979†	241.9	243.4	505.54 µg/L	505.54 ppb	07:02:42
2	B 249.677†	10568.9	10368.9	483.89 µg/L	483.89 ppb	07:02:21
2	Ba 233.527†	17411.2	17566.0	492.83 µg/L	492.83 ppb	07:02:21
2	Be 313.107†	691793.5	700295.2	482.43 µg/L	482.43 ppb	07:02:16
2	Cd 226.502†	16424.1	16679.5	493.42 µg/L	493.42 ppb	07:02:21
2	Co 228.616†	9273.3	9357.2	492.34 µg/L	492.34 ppb	07:02:21
2	Cr 267.716†	21133.7	21318.3	495.14 µg/L	495.14 ppb	07:02:21
2	Cu 324.752†	69524.7	67318.3	497.48 µg/L	497.48 ppb	07:02:21
2	Mn 257.610†	131401.7	132609.0	480.55 µg/L	480.55 ppb	07:02:21
2	Mo 202.031†	4510.2	4552.0	497.36 µg/L	497.36 ppb	07:02:42
2	Ni 231.604†	8730.6	8495.3	495.70 µg/L	495.70 ppb	07:02:21
2	P 214.914†	1117.8	1098.5	2448.4 µg/L	2448.4 ppb	07:02:42
2	Pb 220.353†	1839.6	1762.7	501.93 µg/L	501.93 ppb	07:02:42

2	S 181.975 Axial†	214.1	201.6	975.47 µg/L	975.47 ppb	07:02:42
2	Sb 206.836†	519.7	500.5	514.08 µg/L	514.08 ppb	07:02:42
2	Se 196.026†	321.1	308.7	505.88 µg/L	505.88 ppb	07:02:42
2	SiO2†	23976.5	22819.2	5254.7 µg/L	5254.7 ppb	07:02:21
2	Si 251.611†	28086.6	28027.3	2461.4 µg/L	2461.4 ppb	07:02:21
2	Sn 189.927†	1035.6	1044.1	510.16 µg/L	510.16 ppb	07:02:42
2	Ti 334.940†	189910.7	191174.9	485.22 µg/L	485.22 ppb	07:02:16
2	Tl 190.801†	309.8	337.8	509.28 µg/L	509.28 ppb	07:02:42
2	U 409.014†	5246.3	5286.0	489.27 µg/L	489.27 ppb	07:02:21
2	V 292.402†	43475.5	43827.2	500.08 µg/L	500.08 ppb	07:02:21
2	Zn 213.857†	18973.3	18649.4	492.70 µg/L	492.70 ppb	07:02:21
3	Sc RADIAL	53977.9	53977.9	101 %		07:01:11
3	Al 396.153Radial†	6175.3	6154.7	4557.6 µg/L	4557.6 ppb	07:01:11
3	Ca 317.933Radial†	4967.3	4760.6	4604.6 µg/L	4604.6 ppb	07:01:32
3	Fe 238.204 Radial†	558.5	541.3	4781.2 µg/L	4781.2 ppb	07:01:32
3	K 766.490 Radial†	6577.2	6386.9	4803.7 µg/L	4803.7 ppb	07:01:11
3	Mg 279.077 IEC†	518.8	504.3	4799.4 µg/L	4799.4 ppb	07:01:32
3	Na 589.592 Radial†	28527.5	27857.1	9296.9 µg/L	9296.9 ppb	07:01:11
3	Sr 421.552†	43338.8	43043.3	469.78 µg/L	469.78 ppb	07:01:11
3	Sc 361.383	1878478.0	1878478.0	99.759 %		07:02:49
3	Y 371.029	1288810.8	1288810.8	99.406 %		07:02:49
3	Ag 328.068†	55640.3	56362.7	475.09 µg/L	475.09 ppb	07:02:54
3	As 188.979†	210.7	211.0	438.21 µg/L	438.21 ppb	07:03:15
3	B 249.677†	10183.7	9932.9	463.46 µg/L	463.46 ppb	07:02:54
3	Ba 233.527†	16535.4	16606.0	465.89 µg/L	465.89 ppb	07:02:54
3	Be 313.107†	669477.3	674663.3	464.78 µg/L	464.78 ppb	07:02:49
3	Cd 226.502†	15502.6	15678.4	463.78 µg/L	463.78 ppb	07:02:54
3	Co 228.616†	8758.7	8797.6	462.84 µg/L	462.84 ppb	07:02:54
3	Cr 267.716†	19582.2	19663.4	456.70 µg/L	456.70 ppb	07:02:54
3	Cu 324.752†	65527.8	62983.9	465.47 µg/L	465.47 ppb	07:02:54
3	Mn 257.610†	123473.9	124042.4	449.52 µg/L	449.52 ppb	07:02:54
3	Mo 202.031†	3854.0	3873.0	423.20 µg/L	423.20 ppb	07:03:15
3	Ni 231.604†	8238.7	7961.1	464.53 µg/L	464.53 ppb	07:02:54
3	P 214.914†	980.3	955.5	2125.6 µg/L	2125.6 ppb	07:03:15
3	Pb 220.353†	1650.8	1564.8	445.45 µg/L	445.45 ppb	07:03:15
3	S 181.975 Axial†	197.4	183.9	889.82 µg/L	889.82 ppb	07:03:15
3	Sb 206.836†	445.5	423.7	434.70 µg/L	434.70 ppb	07:03:15
3	Se 196.026†	284.5	270.5	443.93 µg/L	443.93 ppb	07:03:15
3	SiO2†	22892.0	21619.1	4978.3 µg/L	4978.3 ppb	07:02:54
3	Si 251.611†	26758.7	26563.8	2332.9 µg/L	2332.9 ppb	07:02:54
3	Sn 189.927†	871.8	875.1	427.58 µg/L	427.58 ppb	07:03:15
3	Ti 334.940†	183250.3	183602.9	465.99 µg/L	465.99 ppb	07:02:49
3	Tl 190.801†	275.0	301.5	454.85 µg/L	454.85 ppb	07:03:15
3	U 409.014†	4861.5	4875.6	451.22 µg/L	451.22 ppb	07:02:54
3	V 292.402†	40648.8	40788.7	465.12 µg/L	465.12 ppb	07:02:54
3	Zn 213.857†	17850.3	17434.3	460.56 µg/L	460.56 ppb	07:02:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1872196.7	99.425 %	0.2908			0.29%
Sc RADIAL	53161.8	99.1 %	2.23			2.25%
Y 371.029	1283308.4	98.982 %	0.3701			0.37%
Ag 328.068†	58055.4	489.42 µg/L	12.413	489.42 ppb	12.413	2.54%
QC value within limits for Ag 328.068 Recovery = 97.88%						
Al 396.153Radial†	6395.7	4735.4 µg/L	211.04	4735.4 ppb	211.04	4.46%
QC value within limits for Al 396.153Radial Recovery = 94.71%						
As 188.979†	230.2	478.02 µg/L	35.310	478.02 ppb	35.310	7.39%
QC value within limits for As 188.979 Recovery = 95.60%						
B 249.677†	10233.3	477.49 µg/L	12.161	477.49 ppb	12.161	2.55%
QC value within limits for B 249.677 Recovery = 95.50%						
Ba 233.527†	17251.5	484.01 µg/L	15.692	484.01 ppb	15.692	3.24%
QC value within limits for Ba 233.527 Recovery = 96.80%						
Be 313.107†	693186.0	477.54 µg/L	11.149	477.54 ppb	11.149	2.33%
QC value within limits for Be 313.107 Recovery = 95.51%						
Ca 317.933Radial†	4847.0	4688.1 µg/L	176.91	4688.1 ppb	176.91	3.77%
QC value within limits for Ca 317.933Radial Recovery = 93.76%						
Cd 226.502†	16360.2	483.96 µg/L	17.484	483.96 ppb	17.484	3.61%
QC value within limits for Cd 226.502 Recovery = 96.79%						
Co 228.616†	9192.9	483.67 µg/L	18.130	483.67 ppb	18.130	3.75%

QC value within limits for Co 228.616 Recovery = 96.73%							
Cr 267.716†	20789.8	482.86 µg/L	22.669	482.86 ppb	22.669	4.69%	
QC value within limits for Cr 267.716 Recovery = 96.57%							
Cu 324.752†	65821.2	486.44 µg/L	18.162	486.44 ppb	18.162	3.73%	
QC value within limits for Cu 324.752 Recovery = 97.29%							
Fe 238.204 Radial†	559.8	4944.1 µg/L	199.68	4944.1 ppb	199.68	4.04%	
QC value within limits for Fe 238.204 Radial Recovery = 98.88%							
K 766.490 Radial†	6595.3	4960.5 µg/L	205.59	4960.5 ppb	205.59	4.14%	
QC value within limits for K 766.490 Radial Recovery = 99.21%							
Mg 279.077 IEC†	514.5	4896.7 µg/L	216.79	4896.7 ppb	216.79	4.43%	
QC value within limits for Mg 279.077 IEC Recovery = 97.93%							
Mn 257.610†	129804.9	470.40 µg/L	18.085	470.40 ppb	18.085	3.84%	
QC value within limits for Mn 257.610 Recovery = 94.08%							
Mo 202.031†	4313.7	471.34 µg/L	41.736	471.34 ppb	41.736	8.85%	
QC value within limits for Mo 202.031 Recovery = 94.27%							
Na 589.592 Radial†	28952.8	9662.6 µg/L	434.87	9662.6 ppb	434.87	4.50%	
QC value within limits for Na 589.592 Radial Recovery = 96.63%							
Ni 231.604†	8325.0	485.77 µg/L	18.399	485.77 ppb	18.399	3.79%	
QC value within limits for Ni 231.604 Recovery = 97.15%							
P 214.914†	1049.9	2338.6 µg/L	184.49	2338.6 ppb	184.49	7.89%	
QC value within limits for P 214.914 Recovery = 93.54%							
Pb 220.353†	1694.6	482.49 µg/L	32.086	482.49 ppb	32.086	6.65%	
QC value within limits for Pb 220.353 Recovery = 96.50%							
S 181.975 Axial†	197.6	956.01 µg/L	58.917	956.01 ppb	58.917	6.16%	
QC value within limits for S 181.975 Axial Recovery = 95.60%							
Sb 206.836†	468.6	481.16 µg/L	41.385	481.16 ppb	41.385	8.60%	
QC value within limits for Sb 206.836 Recovery = 96.23%							
Se 196.026†	295.2	484.13 µg/L	34.850	484.13 ppb	34.850	7.20%	
QC value within limits for Se 196.026 Recovery = 96.83%							
SiO2†	22428.1	5164.6 µg/L	161.36	5164.6 ppb	161.36	3.12%	
QC value within limits for SiO2 Recovery = 96.58%							
Si 251.611†	27535.7	2418.2 µg/L	73.93	2418.2 ppb	73.93	3.06%	
QC value within limits for Si 251.611 Recovery = 96.73%							
Sn 189.927†	983.2	480.43 µg/L	45.890	480.43 ppb	45.890	9.55%	
QC value within limits for Sn 189.927 Recovery = 96.09%							
Sr 421.552†	44904.7	490.10 µg/L	22.682	490.10 ppb	22.682	4.63%	
QC value within limits for Sr 421.552 Recovery = 98.02%							
Ti 334.940†	189125.1	480.01 µg/L	12.272	480.01 ppb	12.272	2.56%	
QC value within limits for Ti 334.940 Recovery = 96.00%							
Tl 190.801†	323.2	487.49 µg/L	28.795	487.49 ppb	28.795	5.91%	
QC value within limits for Tl 190.801 Recovery = 97.50%							
U 409.014†	5159.3	477.50 µg/L	22.802	477.50 ppb	22.802	4.78%	
QC value within limits for U 409.014 Recovery = 95.50%							
V 292.402†	42835.1	488.67 µg/L	20.394	488.67 ppb	20.394	4.17%	
QC value within limits for V 292.402 Recovery = 97.73%							
Zn 213.857†	18247.4	482.05 µg/L	18.615	482.05 ppb	18.615	3.86%	
QC value within limits for Zn 213.857 Recovery = 96.41%							
All analyte(s) passed QC.							

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/9/2010 07:03:24

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	54339.8	54339.8	101 %		07:03:57
1	Al 396.153Radial†	-16.2	0.2	0.1602 µg/L	0.1602 ppb	07:03:57
1	Ca 317.933Radial†	178.8	-0.5	-0.5223 µg/L	-0.5223 ppb	07:04:18
1	Fe 238.204 Radial†	25.0	10.9	95.703 µg/L	95.703 ppb	07:04:18
1	K 766.490 Radial†	118.9	-33.7	-25.353 µg/L	-25.353 ppb	07:03:57
1	Mg 279.077 IEC†	13.3	1.7	16.227 µg/L	16.227 ppb	07:04:18
1	Na 589.592 Radial†	565.2	57.6	19.215 µg/L	19.215 ppb	07:03:57
1	Sr 421.552†	39.4	1.5	0.0166 µg/L	0.0166 ppb	07:03:57
1	Sc 361.383	1961726.4	1961726.4	104.18 %		07:05:19
1	Y 371.029	1346703.0	1346703.0	103.87 %		07:05:19
1	Ag 328.068†	-538.1	71.3	0.6051 µg/L	0.6051 ppb	07:05:25
1	As 188.979†	-1.6	-1.7	-3.5873 µg/L	-3.5873 ppb	07:05:46
1	B 249.677†	313.4	25.4	1.1400 µg/L	1.1400 ppb	07:05:46
1	Ba 233.527†	-31.2	0.7	0.0206 µg/L	0.0206 ppb	07:05:46
1	Be 313.107†	-3306.9	392.7	0.2706 µg/L	0.2706 ppb	07:05:25
1	Cd 226.502†	-133.1	10.6	0.3024 µg/L	0.3024 ppb	07:05:46
1	Co 228.616†	-15.1	3.2	0.1695 µg/L	0.1695 ppb	07:05:46
1	Cr 267.716†	-38.3	-2.9	-0.0681 µg/L	-0.0681 ppb	07:05:46
1	Cu 324.752†	2895.9	77.4	0.5846 µg/L	0.5846 ppb	07:05:25
1	Mn 257.610†	-227.2	51.9	0.1999 µg/L	0.1999 ppb	07:05:46
1	Mo 202.031†	-6.3	3.6	0.3990 µg/L	0.3990 ppb	07:05:46
1	Ni 231.604†	312.4	2.3	0.1365 µg/L	0.1365 ppb	07:05:46
1	P 214.914†	25.5	-2.8	-6.3904 µg/L	-6.3904 ppb	07:05:46
1	Pb 220.353†	90.0	-3.6	-1.0335 µg/L	-1.0335 ppb	07:05:46
1	S 181.975 Axial†	14.1	-0.5	-2.3975 µg/L	-2.3975 ppb	07:05:46
1	Sb 206.836†	31.3	7.1	7.3168 µg/L	7.3168 ppb	07:05:46
1	Se 196.026†	25.1	9.4	15.408 µg/L	15.408 ppb	07:05:46
1	SiO2†	1350.7	-31.8	-7.3240 µg/L	-7.3240 ppb	07:05:25
1	Si 251.611†	299.4	27.8	2.4372 µg/L	2.4372 ppb	07:05:46
1	Sn 189.927†	1.4	2.5	1.2132 µg/L	1.2132 ppb	07:05:46
1	Ti 334.940†	134.6	38.7	0.0969 µg/L	0.0969 ppb	07:05:25
1	Tl 190.801†	-22.7	4.0	5.9479 µg/L	5.9479 ppb	07:05:46
1	U 409.014†	-57.1	-52.5	-4.8807 µg/L	-4.8807 ppb	07:05:25
1	V 292.402†	-8.2	33.7	0.3891 µg/L	0.3891 ppb	07:05:25
1	Zn 213.857†	496.0	17.0	0.4440 µg/L	0.4440 ppb	07:05:46
2	Sc RADIAL	54346.1	54346.1	101 %		07:04:23
2	Al 396.153Radial†	-14.5	1.8	1.3497 µg/L	1.3497 ppb	07:04:23
2	Ca 317.933Radial†	186.0	6.5	6.2950 µg/L	6.2950 ppb	07:04:44
2	Fe 238.204 Radial†	21.7	7.6	66.843 µg/L	66.843 ppb	07:04:44
2	K 766.490 Radial†	192.3	38.7	29.081 µg/L	29.081 ppb	07:04:23
2	Mg 279.077 IEC†	10.1	-1.4	-13.523 µg/L	-13.523 ppb	07:04:44
2	Na 589.592 Radial†	579.6	71.8	23.947 µg/L	23.947 ppb	07:04:23
2	Sr 421.552†	26.3	-11.4	-0.1246 µg/L	-0.1246 ppb	07:04:23
2	Sc 361.383	1956759.9	1956759.9	103.92 %		07:05:52
2	Y 371.029	1345169.9	1345169.9	103.75 %		07:05:52
2	Ag 328.068†	-524.1	83.5	0.7054 µg/L	0.7054 ppb	07:05:57
2	As 188.979†	-2.3	-2.5	-5.1190 µg/L	-5.1190 ppb	07:06:18
2	B 249.677†	317.9	30.5	1.3952 µg/L	1.3952 ppb	07:06:18
2	Ba 233.527†	-30.2	1.6	0.0453 µg/L	0.0453 ppb	07:06:18
2	Be 313.107†	-3404.7	290.5	0.2002 µg/L	0.2002 ppb	07:05:57
2	Cd 226.502†	-135.8	7.7	0.2177 µg/L	0.2177 ppb	07:06:18
2	Co 228.616†	-15.6	2.7	0.1442 µg/L	0.1442 ppb	07:06:18
2	Cr 267.716†	-25.4	9.3	0.2162 µg/L	0.2162 ppb	07:06:18
2	Cu 324.752†	2887.8	76.7	0.5755 µg/L	0.5755 ppb	07:05:57
2	Mn 257.610†	-217.3	60.8	0.2296 µg/L	0.2296 ppb	07:06:18
2	Mo 202.031†	-2.0	7.7	0.8465 µg/L	0.8465 ppb	07:06:18
2	Ni 231.604†	279.2	-28.9	-1.6871 µg/L	-1.6871 ppb	07:06:18
2	P 214.914†	25.4	-2.8	-6.5523 µg/L	-6.5523 ppb	07:06:18
2	Pb 220.353†	101.8	7.9	2.2506 µg/L	2.2506 ppb	07:06:18

2	S 181.975 Axial†	17.0	2.4	11.456 µg/L	11.456 ppb	07:06:18
2	Sb 206.836†	22.3	-1.4	-1.4418 µg/L	-1.4418 ppb	07:06:18
2	Se 196.026†	14.5	-0.7	-0.9807 µg/L	-0.9807 ppb	07:06:18
2	SiO2†	1331.8	-46.7	-10.743 µg/L	-10.743 ppb	07:05:57
2	Si 251.611†	280.4	10.2	0.8968 µg/L	0.8968 ppb	07:06:18
2	Sn 189.927†	-1.7	-0.5	-0.2694 µg/L	-0.2694 ppb	07:06:18
2	Ti 334.940†	138.6	42.8	0.1099 µg/L	0.1099 ppb	07:05:57
2	Tl 190.801†	-23.1	3.6	5.3828 µg/L	5.3828 ppb	07:06:18
2	U 409.014†	-43.5	-39.5	-3.6752 µg/L	-3.6752 ppb	07:05:57
2	V 292.402†	-12.2	29.8	0.3474 µg/L	0.3474 ppb	07:05:57
2	Zn 213.857†	472.6	-4.4	-0.1121 µg/L	-0.1121 ppb	07:06:18
3	Sc RADIAL	54317.5	54317.5	101 %		07:04:49
3	Al 396.153Radial†	9.4	25.5	18.879 µg/L	18.879 ppb	07:04:49
3	Ca 317.933Radial†	187.2	7.8	7.5049 µg/L	7.5049 ppb	07:05:09
3	Fe 238.204 Radial†	18.6	4.6	40.381 µg/L	40.381 ppb	07:05:09
3	K 766.490 Radial†	142.2	-10.7	-8.0282 µg/L	-8.0282 ppb	07:04:49
3	Mg 279.077 IEC†	8.4	-3.1	-29.435 µg/L	-29.435 ppb	07:05:09
3	Na 589.592 Radial†	536.8	29.7	9.9145 µg/L	9.9145 ppb	07:04:49
3	Sr 421.552†	39.8	2.0	0.0214 µg/L	0.0214 ppb	07:04:49
3	Sc 361.383	1943884.4	1943884.4	103.23 %		07:06:24
3	Y 371.029	1337659.3	1337659.3	103.17 %		07:06:24
3	Ag 328.068†	-545.1	59.7	0.5048 µg/L	0.5048 ppb	07:06:29
3	As 188.979†	-2.6	-2.8	-5.7795 µg/L	-5.7795 ppb	07:06:50
3	B 249.677†	314.7	29.4	1.3586 µg/L	1.3586 ppb	07:06:50
3	Ba 233.527†	-31.1	0.5	0.0133 µg/L	0.0133 ppb	07:06:50
3	Be 313.107†	-3492.3	184.0	0.1268 µg/L	0.1268 ppb	07:06:29
3	Cd 226.502†	-131.7	10.8	0.3130 µg/L	0.3130 ppb	07:06:50
3	Co 228.616†	-15.2	3.0	0.1583 µg/L	0.1583 ppb	07:06:50
3	Cr 267.716†	-21.7	12.7	0.2953 µg/L	0.2953 ppb	07:06:50
3	Cu 324.752†	2893.7	100.8	0.7494 µg/L	0.7494 ppb	07:06:29
3	Mn 257.610†	-228.0	49.0	0.1841 µg/L	0.1841 ppb	07:06:50
3	Mo 202.031†	-6.8	3.0	0.3330 µg/L	0.3330 ppb	07:06:50
3	Ni 231.604†	290.7	-16.0	-0.9318 µg/L	-0.9318 ppb	07:06:50
3	P 214.914†	32.0	3.7	8.3071 µg/L	8.3071 ppb	07:06:50
3	Pb 220.353†	101.5	8.2	2.3549 µg/L	2.3549 ppb	07:06:50
3	S 181.975 Axial†	12.5	-1.9	-9.3259 µg/L	-9.3259 ppb	07:06:50
3	Sb 206.836†	28.9	5.1	5.2464 µg/L	5.2464 ppb	07:06:50
3	Se 196.026†	11.5	-3.6	-5.6014 µg/L	-5.6014 ppb	07:06:50
3	SiO2†	1313.1	-56.3	-12.967 µg/L	-12.967 ppb	07:06:29
3	Si 251.611†	294.3	25.5	2.2367 µg/L	2.2367 ppb	07:06:50
3	Sn 189.927†	-0.0	1.1	0.5244 µg/L	0.5244 ppb	07:06:50
3	Ti 334.940†	86.2	-7.0	-0.0154 µg/L	-0.0154 ppb	07:06:29
3	Tl 190.801†	-19.9	6.5	9.7540 µg/L	9.7540 ppb	07:06:50
3	U 409.014†	-130.2	-123.8	-11.485 µg/L	-11.485 ppb	07:06:29
3	V 292.402†	-13.3	28.7	0.3193 µg/L	0.3193 ppb	07:06:29
3	Zn 213.857†	477.3	3.2	0.0872 µg/L	0.0872 ppb	07:06:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1954123.6	103.78 %	0.489			0.47%
Sc RADIAL	54334.5	101 %	0.0			0.03%
Y 371.029	1343177.4	103.60 %	0.373			0.36%
Ag 328.068†	71.5	0.6051 µg/L	0.10031	0.6051 ppb	0.10031	16.58%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.2	6.7964 µg/L	10.48091	6.7964 ppb	10.48091	154.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.3	-4.8286 µg/L	1.12461	-4.8286 ppb	1.12461	23.29%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	28.5	1.2980 µg/L	0.13799	1.2980 ppb	0.13799	10.63%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.9	0.0264 µg/L	0.01677	0.0264 ppb	0.01677	63.46%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	289.1	0.1992 µg/L	0.07189	0.1992 ppb	0.07189	36.08%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.6	4.4259 µg/L	4.32775	4.4259 ppb	4.32775	97.78%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	9.7	0.2777 µg/L	0.05227	0.2777 ppb	0.05227	18.82%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.0	0.1573 µg/L	0.01268	0.1573 ppb	0.01268	8.06%

Cr	267.716†	6.4	0.1478 µg/L	0.19109	0.1478 ppb	0.19109	129.31%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	85.0	0.6365 µg/L	0.09790	0.6365 ppb	0.09790	15.38%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	7.7	67.642 µg/L	27.6697	67.642 ppb	27.6697	40.91%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-1.9	-1.4334 µg/L	27.80994	-1.4334 ppb	27.80994	>999.9%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.9	-8.9100 µg/L	23.17786	-8.9100 ppb	23.17786	260.13%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	53.9	0.2045 µg/L	0.02311	0.2045 ppb	0.02311	11.30%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.8	0.5262 µg/L	0.27939	0.5262 ppb	0.27939	53.10%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	53.0	17.692 µg/L	7.1393	17.692 ppb	7.1393	40.35%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-14.2	-0.8275 µg/L	0.91627	-0.8275 ppb	0.91627	110.73%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-0.6	-1.5452 µg/L	8.53272	-1.5452 ppb	8.53272	552.20%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	4.2	1.1907 µg/L	1.92687	1.1907 ppb	1.92687	161.83%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.0	-0.0890 µg/L	10.58172	-0.0890 ppb	10.58172	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	3.6	3.7071 µg/L	4.57772	3.7071 ppb	4.57772	123.48%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	1.7	2.9420 µg/L	11.04049	2.9420 ppb	11.04049	375.27%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-44.9	-10.345 µg/L	2.8427	-10.345 ppb	2.8427	27.48%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	21.1	1.8569 µg/L	0.83751	1.8569 ppb	0.83751	45.10%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.0	0.4894 µg/L	0.74194	0.4894 ppb	0.74194	151.60%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-2.6	-0.0289 µg/L	0.08294	-0.0289 ppb	0.08294	287.22%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	24.8	0.0638 µg/L	0.06887	0.0638 ppb	0.06887	107.93%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.7	7.0282 µg/L	2.37742	7.0282 ppb	2.37742	33.83%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-71.9	-6.6802 µg/L	4.20426	-6.6802 ppb	4.20426	62.94%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	30.7	0.3519 µg/L	0.03511	0.3519 ppb	0.03511	9.98%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	5.3	0.1397 µg/L	0.28174	0.1397 ppb	0.28174	201.67%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: 1202037290|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 301

Date Collected: 2/9/2010 07:06:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202037290|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	55005.7	55005.7	103 %		07:07:35
1	Al 396.153Radial†	-13.1	3.4	2.5176 µg/L	2.5176 ppb	07:07:35
1	Ca 317.933Radial†	201.6	19.5	18.867 µg/L	18.867 ppb	07:07:56
1	Fe 238.204 Radial†	23.1	8.7	76.975 µg/L	76.975 ppb	07:07:56
1	K 766.490 Radial†	180.0	24.5	18.407 µg/L	18.407 ppb	07:07:35
1	Mg 279.077 IEC†	12.4	0.7	6.5398 µg/L	6.5398 ppb	07:07:56
1	Na 589.592 Radial†	566.2	51.8	17.293 µg/L	17.293 ppb	07:07:35
1	Sr 421.552†	71.0	31.9	0.3487 µg/L	0.3487 ppb	07:07:35
1	Sc 361.383	1954312.0	1954312.0	103.79 %		07:08:58
1	Y 371.029	1342205.2	1342205.2	103.52 %		07:08:58
1	Ag 328.068†	-428.0	175.4	1.4749 µg/L	1.4749 ppb	07:09:03
1	As 188.979†	-3.6	-3.7	-7.7364 µg/L	-7.7364 ppb	07:09:24
1	B 249.677†	336.5	48.8	2.2449 µg/L	2.2449 ppb	07:09:24
1	Ba 233.527†	-23.8	7.7	0.2158 µg/L	0.2158 ppb	07:09:24
1	Be 313.107†	-3321.2	366.9	0.2528 µg/L	0.2528 ppb	07:09:03
1	Cd 226.502†	-128.1	14.9	0.4318 µg/L	0.4318 ppb	07:09:24
1	Co 228.616†	-17.3	1.1	0.0585 µg/L	0.0585 ppb	07:09:24
1	Cr 267.716†	-23.8	10.8	0.2512 µg/L	0.2512 ppb	07:09:24
1	Cu 324.752†	3042.5	229.2	1.7019 µg/L	1.7019 ppb	07:09:03
1	Mn 257.610†	-64.2	208.1	0.7634 µg/L	0.7634 ppb	07:09:24
1	Mo 202.031†	-7.0	2.9	0.3232 µg/L	0.3232 ppb	07:09:24
1	Ni 231.604†	292.1	-16.1	-0.9410 µg/L	-0.9410 ppb	07:09:24
1	P 214.914†	25.9	-2.3	-5.4060 µg/L	-5.4060 ppb	07:09:24
1	Pb 220.353†	97.0	3.4	0.9649 µg/L	0.9649 ppb	07:09:24
1	S 181.975 Axial†	20.1	5.3	25.676 µg/L	25.676 ppb	07:09:24
1	Sb 206.836†	27.0	3.1	3.1852 µg/L	3.1852 ppb	07:09:24
1	Se 196.026†	15.5	0.2	0.5413 µg/L	0.5413 ppb	07:09:24
1	SiO2†	1431.8	51.3	11.808 µg/L	11.808 ppb	07:09:03
1	Si 251.611†	417.0	142.2	12.488 µg/L	12.488 ppb	07:09:24
1	Sn 189.927†	6.6	7.5	3.6620 µg/L	3.6620 ppb	07:09:24
1	Ti 334.940†	187.5	90.2	0.2288 µg/L	0.2288 ppb	07:09:03
1	Tl 190.801†	-19.6	6.9	10.263 µg/L	10.263 ppb	07:09:24
1	U 409.014†	-41.0	-37.2	-3.4631 µg/L	-3.4631 ppb	07:09:03
1	V 292.402†	-19.3	23.0	0.2672 µg/L	0.2672 ppb	07:09:03
1	Zn 213.857†	539.7	60.8	1.6156 µg/L	1.6156 ppb	07:09:24
2	Sc RADIAL	55424.6	55424.6	103 %		07:08:01
2	Al 396.153Radial†	-13.2	3.4	2.5169 µg/L	2.5169 ppb	07:08:01
2	Ca 317.933Radial†	200.7	17.2	16.599 µg/L	16.599 ppb	07:08:22
2	Fe 238.204 Radial†	25.5	10.8	95.544 µg/L	95.544 ppb	07:08:22
2	K 766.490 Radial†	153.2	-2.8	-2.1275 µg/L	-2.1275 ppb	07:08:01
2	Mg 279.077 IEC†	13.5	1.6	15.489 µg/L	15.489 ppb	07:08:22
2	Na 589.592 Radial†	604.3	84.5	28.215 µg/L	28.215 ppb	07:08:01
2	Sr 421.552†	38.0	-0.6	-0.0062 µg/L	-0.0062 ppb	07:08:01
2	Sc 361.383	1952974.0	1952974.0	103.71 %		07:09:30
2	Y 371.029	1341212.0	1341212.0	103.45 %		07:09:30
2	Ag 328.068†	-502.5	103.3	0.8701 µg/L	0.8701 ppb	07:09:35
2	As 188.979†	1.8	1.5	3.1867 µg/L	3.1867 ppb	07:09:56
2	B 249.677†	346.9	59.1	2.7192 µg/L	2.7192 ppb	07:09:56
2	Ba 233.527†	-28.2	3.4	0.0945 µg/L	0.0945 ppb	07:09:56
2	Be 313.107†	-3252.6	430.8	0.2969 µg/L	0.2969 ppb	07:09:35
2	Cd 226.502†	-136.8	6.4	0.1794 µg/L	0.1794 ppb	07:09:56
2	Co 228.616†	-12.8	5.4	0.2842 µg/L	0.2842 ppb	07:09:56
2	Cr 267.716†	-6.0	28.0	0.6506 µg/L	0.6506 ppb	07:09:56
2	Cu 324.752†	3024.9	214.3	1.5946 µg/L	1.5946 ppb	07:09:35
2	Mn 257.610†	-80.4	192.4	0.7086 µg/L	0.7086 ppb	07:09:56
2	Mo 202.031†	-6.0	3.9	0.4280 µg/L	0.4280 ppb	07:09:56
2	Ni 231.604†	307.3	-1.3	-0.0740 µg/L	-0.0740 ppb	07:09:56
2	P 214.914†	28.1	-0.1	-0.5035 µg/L	-0.5035 ppb	07:09:56
2	Pb 220.353†	95.0	1.6	0.4524 µg/L	0.4524 ppb	07:09:56

2	S 181.975 Axial†	18.2	3.5	16.851 µg/L	16.851 ppb	07:09:56
2	Sb 206.836†	19.0	-4.6	-4.6934 µg/L	-4.6934 ppb	07:09:56
2	Se 196.026†	16.7	1.4	2.5184 µg/L	2.5184 ppb	07:09:56
2	SiO2†	1418.9	39.8	9.1547 µg/L	9.1547 ppb	07:09:35
2	Si 251.611†	418.2	143.6	12.615 µg/L	12.615 ppb	07:09:56
2	Sn 189.927†	5.7	6.6	3.2368 µg/L	3.2368 ppb	07:09:56
2	Ti 334.940†	166.5	70.0	0.1768 µg/L	0.1768 ppb	07:09:35
2	Tl 190.801†	-21.8	4.8	7.1921 µg/L	7.1921 ppb	07:09:56
2	U 409.014†	-109.7	-103.5	-9.6115 µg/L	-9.6115 ppb	07:09:35
2	V 292.402†	-55.7	-12.1	-0.1306 µg/L	-0.1306 ppb	07:09:35
2	Zn 213.857†	538.8	60.3	1.5962 µg/L	1.5962 ppb	07:09:56
3	Sc RADIAL	54914.6	54914.6	102 %		07:08:27
3	Al 396.153Radial†	-34.1	-17.1	-12.729 µg/L	-12.729 ppb	07:08:27
3	Ca 317.933Radial†	204.4	22.5	21.801 µg/L	21.801 ppb	07:08:48
3	Fe 238.204 Radial†	26.9	12.5	110.21 µg/L	110.21 ppb	07:08:48
3	K 766.490 Radial†	188.2	32.8	24.641 µg/L	24.641 ppb	07:08:27
3	Mg 279.077 IEC†	9.2	-2.4	-23.041 µg/L	-23.041 ppb	07:08:48
3	Na 589.592 Radial†	603.6	89.3	29.788 µg/L	29.788 ppb	07:08:27
3	Sr 421.552†	31.8	-6.3	-0.0691 µg/L	-0.0691 ppb	07:08:27
3	Sc 361.383	1939186.5	1939186.5	102.98 %		07:10:02
3	Y 371.029	1331109.2	1331109.2	102.67 %		07:10:02
3	Ag 328.068†	-544.2	59.3	0.5033 µg/L	0.5033 ppb	07:10:07
3	As 188.979†	4.0	3.7	7.7180 µg/L	7.7180 ppb	07:10:28
3	B 249.677†	321.7	37.0	1.6734 µg/L	1.6734 ppb	07:10:28
3	Ba 233.527†	-15.7	15.4	0.4311 µg/L	0.4311 ppb	07:10:28
3	Be 313.107†	-3344.8	319.1	0.2198 µg/L	0.2198 ppb	07:10:07
3	Cd 226.502†	-134.4	7.8	0.2183 µg/L	0.2183 ppb	07:10:28
3	Co 228.616†	-13.0	5.1	0.2697 µg/L	0.2697 ppb	07:10:28
3	Cr 267.716†	-31.4	3.3	0.0773 µg/L	0.0773 ppb	07:10:28
3	Cu 324.752†	2942.3	154.8	1.1574 µg/L	1.1574 ppb	07:10:07
3	Mn 257.610†	-92.8	179.9	0.6667 µg/L	0.6667 ppb	07:10:28
3	Mo 202.031†	-4.2	5.6	0.6157 µg/L	0.6157 ppb	07:10:28
3	Ni 231.604†	294.8	-11.3	-0.6566 µg/L	-0.6566 ppb	07:10:28
3	P 214.914†	24.8	-3.2	-7.3429 µg/L	-7.3429 ppb	07:10:28
3	Pb 220.353†	98.5	5.6	1.5879 µg/L	1.5879 ppb	07:10:28
3	S 181.975 Axial†	16.5	2.0	9.8306 µg/L	9.8306 ppb	07:10:28
3	Sb 206.836†	20.9	-2.5	-2.5951 µg/L	-2.5951 ppb	07:10:28
3	Se 196.026†	13.4	-1.7	-2.4134 µg/L	-2.4134 ppb	07:10:28
3	SiO2†	1405.5	36.5	8.3946 µg/L	8.3946 ppb	07:10:07
3	Si 251.611†	407.7	136.3	11.969 µg/L	11.969 ppb	07:10:28
3	Sn 189.927†	3.9	4.9	2.3793 µg/L	2.3793 ppb	07:10:28
3	Ti 334.940†	201.0	104.7	0.2680 µg/L	0.2680 ppb	07:10:07
3	Tl 190.801†	-27.2	-0.6	-0.8618 µg/L	-0.8618 ppb	07:10:28
3	U 409.014†	-82.8	-78.1	-7.2584 µg/L	-7.2584 ppb	07:10:07
3	V 292.402†	-47.1	-4.2	-0.0369 µg/L	-0.0369 ppb	07:10:07
3	Zn 213.857†	534.4	59.7	1.5860 µg/L	1.5860 ppb	07:10:28

Mean Data: 1202037290|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1948824.2	103.49 %	%	0.445			0.43%
Sc RADIAL	55115.0	103 %	%	0.5			0.49%
Y 371.029	1338175.5	103.21 %	%	0.474			0.46%
Ag 328.068†	112.7	0.9494 µg/L	µg/L	0.49061	0.9494 ppb	0.49061	51.67%
Al 396.153Radial†	-3.4	-2.5647 µg/L	µg/L	8.80229	-2.5647 ppb	8.80229	343.21%
As 188.979†	0.5	1.0561 µg/L	µg/L	7.94446	1.0561 ppb	7.94446	752.22%
B 249.677†	48.3	2.2125 µg/L	µg/L	0.52368	2.2125 ppb	0.52368	23.67%
Ba 233.527†	8.8	0.2471 µg/L	µg/L	0.17046	0.2471 ppb	0.17046	68.97%
Be 313.107†	372.3	0.2565 µg/L	µg/L	0.03866	0.2565 ppb	0.03866	15.07%
Ca 317.933Radial†	19.7	19.089 µg/L	µg/L	2.6081	19.089 ppb	2.6081	13.66%
Cd 226.502†	9.7	0.2765 µg/L	µg/L	0.13585	0.2765 ppb	0.13585	49.13%
Co 228.616†	3.9	0.2041 µg/L	µg/L	0.12635	0.2041 ppb	0.12635	61.90%
Cr 267.716†	14.1	0.3264 µg/L	µg/L	0.29395	0.3264 ppb	0.29395	90.07%
Cu 324.752†	199.4	1.4846 µg/L	µg/L	0.28846	1.4846 ppb	0.28846	19.43%
Fe 238.204 Radial†	10.7	94.243 µg/L	µg/L	16.6554	94.243 ppb	16.6554	17.67%
K 766.490 Radial†	18.1	13.640 µg/L	µg/L	14.0064	13.640 ppb	14.0064	102.68%
Mg 279.077 IEC†	-0.0	-0.3375 µg/L	µg/L	20.16479	-0.3375 ppb	20.16479	>999.9%
Mn 257.610†	193.5	0.7129 µg/L	µg/L	0.04847	0.7129 ppb	0.04847	6.80%
Mo 202.031†	4.1	0.4556 µg/L	µg/L	0.14822	0.4556 ppb	0.14822	32.53%
Na 589.592 Radial†	75.2	25.098 µg/L	µg/L	6.8057	25.098 ppb	6.8057	27.12%

Ni 231.604†	-9.6	-0.5572 µg/L	0.44195	-0.5572 ppb	0.44195	79.31%
P 214.914†	-1.9	-4.4175 µg/L	3.52522	-4.4175 ppb	3.52522	79.80%
Pb 220.353†	3.5	1.0018 µg/L	0.56866	1.0018 ppb	0.56866	56.77%
S 181.975 Axial†	3.6	17.453 µg/L	7.9398	17.453 ppb	7.9398	45.49%
Sb 206.836†	-1.3	-1.3678 µg/L	4.08018	-1.3678 ppb	4.08018	298.31%
Se 196.026†	-0.0	0.2154 µg/L	2.48199	0.2154 ppb	2.48199	>999.9%
SiO2†	42.5	9.7857 µg/L	1.79185	9.7857 ppb	1.79185	18.31%
Si 251.611†	140.7	12.357 µg/L	0.3424	12.357 ppb	0.3424	2.77%
Sn 189.927†	6.4	3.0927 µg/L	0.65336	3.0927 ppb	0.65336	21.13%
Sr 421.552†	8.3	0.0911 µg/L	0.22522	0.0911 ppb	0.22522	247.15%
Ti 334.940†	88.3	0.2245 µg/L	0.04577	0.2245 ppb	0.04577	20.38%
Tl 190.801†	3.7	5.5311 µg/L	5.74542	5.5311 ppb	5.74542	103.87%
U 409.014†	-72.9	-6.7777 µg/L	3.10224	-6.7777 ppb	3.10224	45.77%
V 292.402†	2.2	0.0332 µg/L	0.20800	0.0332 ppb	0.20800	625.89%
Zn 213.857†	60.3	1.5993 µg/L	0.01506	1.5993 ppb	0.01506	0.94%

Sequence No.: 5
 Sample ID: 1202037291|950667|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 302
 Date Collected: 2/9/2010 07:10:38
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202037291|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	56152.9	56152.9	105 %		07:11:16
1	Al 396.153Radial†	159692.6	152609.3	113210 µg/L	113210 ppb	07:11:11
1	Ca 317.933Radial†	124891.8	119162.3	115260 µg/L	115260 ppb	07:11:11
1	Fe 238.204 Radial†	27295.8	26068.5	229790 µg/L	229790 ppb	07:11:16
1	K 766.490 Radial†	71048.9	67739.1	50948 µg/L	50948 ppb	07:11:11
1	Mg 279.077 IEC†	5112.1	4873.4	46121 µg/L	46121 ppb	07:11:16
1	Na 589.592 Radial†	37139.0	34987.4	11677 µg/L	11677 ppb	07:11:11
1	Sr 421.552†	257065.3	245599.4	2680.5 µg/L	2680.5 ppb	07:11:11
1	Sc 361.383	1962592.6	1962592.6	104.23 %		07:11:51
1	Y 371.029	1379246.9	1379246.9	106.38 %		07:11:51
1	Ag 328.068†	43733.5	42548.2	380.25 µg/L	380.25 ppb	07:11:57
1	As 188.979†	645.4	619.0	1294.2 µg/L	1294.2 ppb	07:12:17
1	B 249.677†	40089.3	38188.5	1673.2 µg/L	1673.2 ppb	07:11:57
1	Ba 233.527†	85756.1	82309.8	2307.8 µg/L	2307.8 ppb	07:11:57
1	Be 313.107†	1420905.3	1366863.0	939.35 µg/L	939.35 ppb	07:11:51
1	Cd 226.502†	25142.3	24261.2	693.39 µg/L	693.39 ppb	07:11:57
1	Co 228.616†	21740.3	20876.6	1085.8 µg/L	1085.8 ppb	07:11:57
1	Cr 267.716†	126586.1	121487.6	2820.8 µg/L	2820.8 ppb	07:11:57
1	Cu 324.752†	309311.5	294068.4	2202.1 µg/L	2202.1 ppb	07:11:57
1	Mn 257.610†	1856204.0	1781215.8	6477.3 µg/L	6477.3 ppb	07:11:51
1	Mo 202.031†	5947.9	5716.4	633.09 µg/L	633.09 ppb	07:12:17
1	Ni 231.604†	28291.8	26847.1	1569.9 µg/L	1569.9 ppb	07:11:57
1	P 214.914†	4741.2	4521.8	9910.4 µg/L	9910.4 ppb	07:12:17
1	Pb 220.353†	3994.3	3742.3	1061.1 µg/L	1061.1 ppb	07:12:17
1	S 181.975 Axial†	991.1	936.9	4533.4 µg/L	4533.4 ppb	07:12:17
1	Sb 206.836†	2323.4	2206.4	2225.1 µg/L	2225.1 ppb	07:12:17
1	Se 196.026†	2081.5	1982.4	3753.6 µg/L	3753.6 ppb	07:12:17
1	SiO2†	116599.3	110543.6	25455 µg/L	25455 ppb	07:11:57
1	Si 251.611†	141128.3	135146.8	11869 µg/L	11869 ppb	07:11:57
1	Sn 189.927†	2830.9	2717.2	1308.0 µg/L	1308.0 ppb	07:12:17
1	Ti 334.940†	2849992.9	2734352.0	6942.6 µg/L	6942.6 ppb	07:11:51
1	Tl 190.801†	953.8	940.9	1515.7 µg/L	1515.7 ppb	07:12:17
1	U 409.014†	-1436.5	-1376.0	-166.58 µg/L	-166.58 ppb	07:11:57
1	V 292.402†	135169.1	129730.4	1500.6 µg/L	1500.6 ppb	07:11:57
1	Zn 213.857†	269748.2	258352.3	6849.8 µg/L	6849.8 ppb	07:11:57
2	Sc RADIAL	56434.5	56434.5	105 %		07:11:27
2	Al 396.153Radial†	159920.6	152064.6	112810 µg/L	112810 ppb	07:11:22
2	Ca 317.933Radial†	124566.3	118257.3	114380 µg/L	114380 ppb	07:11:22
2	Fe 238.204 Radial†	27429.5	26065.4	229760 µg/L	229760 ppb	07:11:27
2	K 766.490 Radial†	71066.4	67417.0	50706 µg/L	50706 ppb	07:11:22
2	Mg 279.077 IEC†	5133.6	4869.5	46084 µg/L	46084 ppb	07:11:27
2	Na 589.592 Radial†	37200.9	34869.2	11637 µg/L	11637 ppb	07:11:22
2	Sr 421.552†	257286.9	244584.5	2669.4 µg/L	2669.4 ppb	07:11:22
2	Sc 361.383	1947837.8	1947837.8	103.44 %		07:12:24
2	Y 371.029	1368547.9	1368547.9	105.56 %		07:12:24
2	Ag 328.068†	43819.4	42949.1	383.73 µg/L	383.73 ppb	07:12:30
2	As 188.979†	642.6	621.0	1298.4 µg/L	1298.4 ppb	07:12:51
2	B 249.677†	40334.9	38717.3	1698.1 µg/L	1698.1 ppb	07:12:30
2	Ba 233.527†	86412.5	83567.6	2343.0 µg/L	2343.0 ppb	07:12:30
2	Be 313.107†	1411335.1	1367938.1	940.08 µg/L	940.08 ppb	07:12:24
2	Cd 226.502†	25230.1	24528.8	701.34 µg/L	701.34 ppb	07:12:30
2	Co 228.616†	21900.8	21189.7	1102.2 µg/L	1102.2 ppb	07:12:30
2	Cr 267.716†	127261.3	123060.3	2857.3 µg/L	2857.3 ppb	07:12:30
2	Cu 324.752†	310883.6	297836.2	2229.9 µg/L	2229.9 ppb	07:12:30
2	Mn 257.610†	1840971.6	1779980.9	6472.8 µg/L	6472.8 ppb	07:12:24
2	Mo 202.031†	5962.0	5773.3	639.30 µg/L	639.30 ppb	07:12:51
2	Ni 231.604†	28558.6	27310.7	1596.9 µg/L	1596.9 ppb	07:12:30
2	P 214.914†	4758.3	4572.7	10023 µg/L	10023 ppb	07:12:51
2	Pb 220.353†	3994.0	3771.1	1069.2 µg/L	1069.2 ppb	07:12:51

2	S 181.975 Axial†	991.4	944.4	4569.4 µg/L	4569.4 ppb	07:12:51
2	Sb 206.836†	2318.4	2218.4	2237.2 µg/L	2237.2 ppb	07:12:51
2	Se 196.026†	2099.8	2015.3	3806.8 µg/L	3806.8 ppb	07:12:51
2	SiO2†	115093.6	109935.4	25315 µg/L	25315 ppb	07:12:30
2	Si 251.611†	139283.1	134388.7	11802 µg/L	11802 ppb	07:12:30
2	Sn 189.927†	2829.1	2736.0	1317.2 µg/L	1317.2 ppb	07:12:51
2	Ti 334.940†	2837650.9	2743133.9	6964.9 µg/L	6964.9 ppb	07:12:24
2	Tl 190.801†	961.8	955.6	1537.8 µg/L	1537.8 ppb	07:12:51
2	U 409.014†	-1482.0	-1430.3	-171.56 µg/L	-171.56 ppb	07:12:30
2	V 292.402†	135883.8	131403.7	1519.5 µg/L	1519.5 ppb	07:12:30
2	Zn 213.857†	271298.0	261811.0	6941.6 µg/L	6941.6 ppb	07:12:30
3	Sc RADIAL	55758.7	55758.7	104 %		07:11:38
3	Al 396.153Radial†	160867.0	154818.2	114850 µg/L	114850 ppb	07:11:33
3	Ca 317.933Radial†	125902.8	120978.9	117010 µg/L	117010 ppb	07:11:33
3	Fe 238.204 Radial†	27125.2	26088.7	229970 µg/L	229970 ppb	07:11:38
3	K 766.490 Radial†	71800.1	68941.9	51853 µg/L	51853 ppb	07:11:33
3	Mg 279.077 IEC†	5094.1	4890.6	46285 µg/L	46285 ppb	07:11:38
3	Na 589.592 Radial†	37498.7	35584.4	11876 µg/L	11876 ppb	07:11:33
3	Sr 421.552†	259367.1	249551.1	2723.6 µg/L	2723.6 ppb	07:11:33
3	Sc 361.383	1943216.8	1943216.8	103.20 %		07:12:58
3	Y 371.029	1365396.0	1365396.0	105.31 %		07:12:58
3	Ag 328.068†	43808.1	43038.9	384.50 µg/L	384.50 ppb	07:13:04
3	As 188.979†	645.5	625.3	1307.2 µg/L	1307.2 ppb	07:13:24
3	B 249.677†	40217.1	38695.9	1697.0 µg/L	1697.0 ppb	07:13:04
3	Ba 233.527†	86212.8	83572.8	2343.2 µg/L	2343.2 ppb	07:13:04
3	Be 313.107†	1405220.9	1365257.8	938.24 µg/L	938.24 ppb	07:12:58
3	Cd 226.502†	25306.1	24660.5	705.21 µg/L	705.21 ppb	07:13:04
3	Co 228.616†	21880.2	21220.2	1103.9 µg/L	1103.9 ppb	07:13:04
3	Cr 267.716†	126999.4	123099.1	2858.2 µg/L	2858.2 ppb	07:13:04
3	Cu 324.752†	310127.6	297818.4	2229.8 µg/L	2229.8 ppb	07:13:04
3	Mn 257.610†	1833624.4	1777093.4	6462.4 µg/L	6462.4 ppb	07:12:58
3	Mo 202.031†	5951.6	5776.9	639.71 µg/L	639.71 ppb	07:13:24
3	Ni 231.604†	28459.1	27279.9	1595.1 µg/L	1595.1 ppb	07:13:04
3	P 214.914†	4744.3	4570.0	10018 µg/L	10018 ppb	07:13:24
3	Pb 220.353†	3980.3	3767.0	1068.1 µg/L	1068.1 ppb	07:13:24
3	S 181.975 Axial†	979.0	934.7	4522.6 µg/L	4522.6 ppb	07:13:24
3	Sb 206.836†	2319.3	2224.6	2243.2 µg/L	2243.2 ppb	07:13:24
3	Se 196.026†	2071.1	1992.2	3769.3 µg/L	3769.3 ppb	07:13:24
3	SiO2†	114679.7	109798.9	25284 µg/L	25284 ppb	07:13:04
3	Si 251.611†	138679.4	134123.8	11779 µg/L	11779 ppb	07:13:04
3	Sn 189.927†	2825.5	2739.1	1318.6 µg/L	1318.6 ppb	07:13:24
3	Ti 334.940†	2819684.9	2732247.8	6937.3 µg/L	6937.3 ppb	07:12:58
3	Tl 190.801†	949.0	945.4	1522.3 µg/L	1522.3 ppb	07:13:24
3	U 409.014†	-1449.6	-1402.4	-169.16 µg/L	-169.16 ppb	07:13:04
3	V 292.402†	135638.4	131478.2	1520.4 µg/L	1520.4 ppb	07:13:04
3	Zn 213.857†	271024.9	262170.0	6951.2 µg/L	6951.2 ppb	07:13:04

Mean Data: 1202037291|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1951215.7	103.62	%	0.537			0.52%
Sc RADIAL	56115.3	105	%	0.6			0.60%
Y 371.029	1371063.6	105.75	%	0.560			0.53%
Ag 328.068†	42845.4	382.82	µg/L	2.263	382.82 ppb	2.263	0.59%
Al 396.153Radial†	153164.0	113620	µg/L	1081.8	113620 ppb	1081.8	0.95%
As 188.979†	621.8	1299.9	µg/L	6.65	1299.9 ppb	6.65	0.51%
B 249.677†	38533.9	1689.4	µg/L	14.03	1689.4 ppb	14.03	0.83%
Ba 233.527†	83150.1	2331.3	µg/L	20.40	2331.3 ppb	20.40	0.88%
Be 313.107†	1366686.3	939.22	µg/L	0.925	939.22 ppb	0.925	0.10%
Ca 317.933Radial†	119466.2	115550	µg/L	1340.6	115550 ppb	1340.6	1.16%
Cd 226.502†	24483.5	699.98	µg/L	6.025	699.98 ppb	6.025	0.86%
Co 228.616†	21095.5	1097.3	µg/L	10.01	1097.3 ppb	10.01	0.91%
Cr 267.716†	122549.0	2845.5	µg/L	21.35	2845.5 ppb	21.35	0.75%
Cu 324.752†	296574.3	2220.6	µg/L	16.02	2220.6 ppb	16.02	0.72%
Fe 238.204 Radial†	26074.2	229840	µg/L	111.5	229840 ppb	111.5	0.05%
K 766.490 Radial†	68032.7	51169	µg/L	604.5	51169 ppb	604.5	1.18%
Mg 279.077 IEC†	4877.8	46163	µg/L	106.7	46163 ppb	106.7	0.23%
Mn 257.610†	1779430.0	6470.8	µg/L	7.65	6470.8 ppb	7.65	0.12%
Mo 202.031†	5755.5	637.36	µg/L	3.710	637.36 ppb	3.710	0.58%
Na 589.592 Radial†	35147.0	11730	µg/L	128.0	11730 ppb	128.0	1.09%

Ni 231.604†	27145.9	1587.3 µg/L	15.13	1587.3 ppb	15.13	0.95%
P 214.914†	4554.8	9983.8 µg/L	63.60	9983.8 ppb	63.60	0.64%
Pb 220.353†	3760.1	1066.1 µg/L	4.42	1066.1 ppb	4.42	0.41%
S 181.975 Axial†	938.7	4541.8 µg/L	24.53	4541.8 ppb	24.53	0.54%
Sb 206.836†	2216.4	2235.1 µg/L	9.24	2235.1 ppb	9.24	0.41%
Se 196.026†	1996.6	3776.5 µg/L	27.35	3776.5 ppb	27.35	0.72%
SiO2†	110092.6	25352 µg/L	91.3	25352 ppb	91.3	0.36%
Si 251.611†	134553.1	11817 µg/L	46.6	11817 ppb	46.6	0.39%
Sn 189.927†	2730.8	1314.6 µg/L	5.78	1314.6 ppb	5.78	0.44%
Sr 421.552†	246578.4	2691.2 µg/L	28.64	2691.2 ppb	28.64	1.06%
Ti 334.940†	2736577.9	6948.2 µg/L	14.65	6948.2 ppb	14.65	0.21%
Tl 190.801†	947.3	1525.3 µg/L	11.35	1525.3 ppb	11.35	0.74%
U 409.014†	-1402.9	-169.10 µg/L	2.493	-169.10 ppb	2.493	1.47%
V 292.402†	130870.8	1513.5 µg/L	11.22	1513.5 ppb	11.22	0.74%
Zn 213.857†	260777.8	6914.2 µg/L	55.99	6914.2 ppb	55.99	0.81%

Sequence No.: 6

Sample ID: 244628001|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 303

Date Collected: 2/9/2010 07:13:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628001|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	55248.5	55248.5	103 %		07:14:07
1	Al 396.153Radial†	60545.8	58817.3	43637 µg/L	43637 ppb	07:14:07
1	Ca 317.933Radial†	17230.8	16557.1	16015 µg/L	16015 ppb	07:14:07
1	Fe 238.204 Radial†	9731.3	9437.1	83178 µg/L	83178 ppb	07:14:27
1	K 766.490 Radial†	9366.5	8945.5	6728.1 µg/L	6728.1 ppb	07:14:07
1	Mg 279.077 IEC†	865.1	828.7	7794.0 µg/L	7794.0 ppb	07:14:27
1	Na 589.592 Radial†	2928.4	2343.5	782.10 µg/L	782.10 ppb	07:14:07
1	Sr 421.552†	11662.0	11288.6	123.21 µg/L	123.21 ppb	07:14:07
1	Sc 361.383	1938696.4	1938696.4	102.96 %		07:15:32
1	Y 371.029	1373645.6	1373645.6	105.95 %		07:15:32
1	Ag 328.068†	-1545.4	-913.2	-1.7242 µg/L	-1.7242 ppb	07:15:37
1	As 188.979†	12.3	11.7	28.282 µg/L	28.282 ppb	07:15:58
1	B 249.677†	1161.8	853.0	-3.2148 µg/L	-3.2148 ppb	07:15:37
1	Ba 233.527†	17854.6	17372.5	486.71 µg/L	486.71 ppb	07:15:37
1	Be 313.107†	7688.0	11034.2	6.6471 µg/L	6.6471 ppb	07:15:37
1	Cd 226.502†	132.0	266.5	-1.4231 µg/L	-1.4231 ppb	07:15:58
1	Co 228.616†	613.5	613.6	27.092 µg/L	27.092 ppb	07:15:58
1	Cr 267.716†	6445.5	6294.2	146.16 µg/L	146.16 ppb	07:15:37
1	Cu 324.752†	5101.0	2252.2	28.183 µg/L	28.183 ppb	07:15:37
1	Mn 257.610†	668359.4	649435.4	2361.9 µg/L	2361.9 ppb	07:15:32
1	Mo 202.031†	137.7	143.4	18.828 µg/L	18.828 ppb	07:15:58
1	Ni 231.604†	1916.7	1564.1	92.407 µg/L	92.407 ppb	07:15:58
1	P 214.914†	338.0	301.0	627.18 µg/L	627.18 ppb	07:15:58
1	Pb 220.353†	350.3	250.2	70.590 µg/L	70.590 ppb	07:15:58
1	S 181.975 Axial†	160.4	141.8	686.07 µg/L	686.07 ppb	07:15:58
1	Sb 206.836†	35.5	11.6	9.0825 µg/L	9.0825 ppb	07:15:58
1	Se 196.026†	-24.1	-38.1	154.35 µg/L	154.35 ppb	07:15:58
1	SiO2†	105800.5	101433.8	23358 µg/L	23358 ppb	07:15:37
1	Si 251.611†	128434.1	124486.2	10932 µg/L	10932 ppb	07:15:37
1	Sn 189.927†	-7.5	-6.1	-11.026 µg/L	-11.026 ppb	07:15:58
1	Ti 334.940†	1018628.9	989285.4	2512.1 µg/L	2512.1 ppb	07:15:32
1	Tl 190.801†	-43.1	-16.1	21.020 µg/L	21.020 ppb	07:15:58
1	U 409.014†	-1265.7	-1227.0	-126.33 µg/L	-126.33 ppb	07:15:32
1	V 292.402†	9359.9	9132.7	113.07 µg/L	113.07 ppb	07:15:37
1	Zn 213.857†	9181.2	8458.3	220.22 µg/L	220.22 ppb	07:15:37
2	Sc RADIAL	55427.2	55427.2	103 %		07:14:33
2	Al 396.153Radial†	61416.3	59470.5	44122 µg/L	44122 ppb	07:14:33
2	Ca 317.933Radial†	17496.1	16760.0	16211 µg/L	16211 ppb	07:14:33
2	Fe 238.204 Radial†	9786.6	9460.1	83382 µg/L	83382 ppb	07:14:53
2	K 766.490 Radial†	9445.1	8992.2	6763.3 µg/L	6763.3 ppb	07:14:33
2	Mg 279.077 IEC†	873.8	834.4	7848.3 µg/L	7848.3 ppb	07:14:53
2	Na 589.592 Radial†	2933.5	2339.3	780.71 µg/L	780.71 ppb	07:14:33
2	Sr 421.552†	11766.5	11353.3	123.91 µg/L	123.91 ppb	07:14:33
2	Sc 361.383	1971627.5	1971627.5	104.71 %		07:16:05
2	Y 371.029	1397438.5	1397438.5	107.78 %		07:16:05
2	Ag 328.068†	-1570.0	-911.6	-1.7128 µg/L	-1.7128 ppb	07:16:11
2	As 188.979†	12.7	11.9	28.708 µg/L	28.708 ppb	07:16:31
2	B 249.677†	1132.1	805.8	-5.5327 µg/L	-5.5327 ppb	07:16:11
2	Ba 233.527†	17907.0	17132.9	479.99 µg/L	479.99 ppb	07:16:11
2	Be 313.107†	7742.5	10961.6	6.5996 µg/L	6.5996 ppb	07:16:11
2	Cd 226.502†	132.6	265.0	-1.4924 µg/L	-1.4924 ppb	07:16:31
2	Co 228.616†	605.9	596.4	26.200 µg/L	26.200 ppb	07:16:31
2	Cr 267.716†	6533.2	6273.3	145.68 µg/L	145.68 ppb	07:16:11
2	Cu 324.752†	5065.5	2135.6	27.350 µg/L	27.350 ppb	07:16:11
2	Mn 257.610†	678523.1	648299.7	2357.8 µg/L	2357.8 ppb	07:16:05
2	Mo 202.031†	142.0	145.3	19.038 µg/L	19.038 ppb	07:16:31
2	Ni 231.604†	1913.8	1530.2	90.430 µg/L	90.430 ppb	07:16:31
2	P 214.914†	335.5	293.2	609.44 µg/L	609.44 ppb	07:16:31
2	Pb 220.353†	331.4	226.4	63.854 µg/L	63.854 ppb	07:16:31

2	S 181.975 Axial†	157.7	136.6	660.95 µg/L	660.95 ppb	07:16:31
2	Sb 206.836†	36.8	12.2	9.7151 µg/L	9.7151 ppb	07:16:31
2	Se 196.026†	-25.5	-39.0	153.37 µg/L	153.37 ppb	07:16:31
2	SiO2†	107934.2	101755.2	23432 µg/L	23432 ppb	07:16:11
2	Si 251.611†	130869.2	124728.2	10954 µg/L	10954 ppb	07:16:11
2	Sn 189.927†	-7.3	-5.8	-10.889 µg/L	-10.889 ppb	07:16:31
2	Ti 334.940†	1033192.7	986669.7	2505.5 µg/L	2505.5 ppb	07:16:05
2	Tl 190.801†	-52.4	-24.3	8.8094 µg/L	8.8094 ppb	07:16:31
2	U 409.014†	-1331.2	-1269.1	-130.28 µg/L	-130.28 ppb	07:16:05
2	V 292.402†	9310.8	8933.9	110.85 µg/L	110.85 ppb	07:16:11
2	Zn 213.857†	9196.8	8324.3	216.65 µg/L	216.65 ppb	07:16:11
3	Sc RADIAL	55610.7	55610.7	104 %		07:14:59
3	Al 396.153Radial†	61517.5	59371.9	44048 µg/L	44048 ppb	07:14:59
3	Ca 317.933Radial†	17514.7	16722.1	16174 µg/L	16174 ppb	07:14:59
3	Fe 238.204 Radial†	9771.6	9414.4	82978 µg/L	82978 ppb	07:15:19
3	K 766.490 Radial†	9499.3	9014.3	6779.9 µg/L	6779.9 ppb	07:14:59
3	Mg 279.077 IEC†	865.8	824.0	7749.1 µg/L	7749.1 ppb	07:15:19
3	Na 589.592 Radial†	2983.3	2377.9	793.59 µg/L	793.59 ppb	07:14:59
3	Sr 421.552†	11865.8	11411.5	124.55 µg/L	124.55 ppb	07:14:59
3	Sc 361.383	1956510.2	1956510.2	103.90 %		07:16:39
3	Y 371.029	1386068.6	1386068.6	106.91 %		07:16:39
3	Ag 328.068†	-1575.0	-928.1	-1.8788 µg/L	-1.8788 ppb	07:16:44
3	As 188.979†	14.9	14.2	33.415 µg/L	33.415 ppb	07:17:05
3	B 249.677†	1115.6	798.3	-5.6809 µg/L	-5.6809 ppb	07:16:44
3	Ba 233.527†	17739.1	17103.4	479.17 µg/L	479.17 ppb	07:16:44
3	Be 313.107†	7533.4	10817.4	6.5162 µg/L	6.5162 ppb	07:16:44
3	Cd 226.502†	122.5	256.2	-1.7101 µg/L	-1.7101 ppb	07:17:05
3	Co 228.616†	565.2	561.8	24.462 µg/L	24.462 ppb	07:17:05
3	Cr 267.716†	6348.1	6143.4	142.66 µg/L	142.66 ppb	07:16:44
3	Cu 324.752†	5084.6	2191.3	27.705 µg/L	27.705 ppb	07:16:44
3	Mn 257.610†	664315.5	639632.8	2326.4 µg/L	2326.4 ppb	07:16:39
3	Mo 202.031†	127.2	132.1	17.578 µg/L	17.578 ppb	07:17:05
3	Ni 231.604†	1836.5	1470.0	86.908 µg/L	86.908 ppb	07:17:05
3	P 214.914†	326.8	287.2	596.17 µg/L	596.17 ppb	07:17:05
3	Pb 220.353†	327.2	224.9	63.421 µg/L	63.421 ppb	07:17:05
3	S 181.975 Axial†	157.5	137.6	665.72 µg/L	665.72 ppb	07:17:05
3	Sb 206.836†	27.5	3.6	0.9054 µg/L	0.9054 ppb	07:17:05
3	Se 196.026†	-31.5	-45.0	142.66 µg/L	142.66 ppb	07:17:05
3	SiO2†	99537.1	94470.1	21754 µg/L	21754 ppb	07:16:44
3	Si 251.611†	120502.5	115716.7	10162 µg/L	10162 ppb	07:16:44
3	Sn 189.927†	-8.3	-6.8	-11.351 µg/L	-11.351 ppb	07:17:05
3	Ti 334.940†	1008163.9	970205.4	2463.7 µg/L	2463.7 ppb	07:16:39
3	Tl 190.801†	-51.7	-24.0	8.7314 µg/L	8.7314 ppb	07:17:05
3	U 409.014†	-1261.9	-1212.2	-124.94 µg/L	-124.94 ppb	07:16:39
3	V 292.402†	9196.6	8892.7	110.33 µg/L	110.33 ppb	07:16:44
3	Zn 213.857†	9128.5	8326.4	216.74 µg/L	216.74 ppb	07:16:44

Mean Data: 244628001|950667|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc 361.383	1955611.4	103.85 %		0.875			0.84%
Sc RADIAL	55428.8	103 %		0.3			0.33%
Y 371.029	1385717.6	106.88 %		0.918			0.86%
Ag 328.068†	-917.6	-1.7719 µg/L		0.09275	-1.7719 ppb	0.09275	5.23%
Al 396.153Radial†	59219.9	43936 µg/L		261.2	43936 ppb	261.2	0.59%
As 188.979†	12.6	30.135 µg/L		2.8484	30.135 ppb	2.8484	9.45%
B 249.677†	819.1	-4.8095 µg/L		1.38301	-4.8095 ppb	1.38301	28.76%
Ba 233.527†	17202.9	481.96 µg/L		4.136	481.96 ppb	4.136	0.86%
Be 313.107†	10937.7	6.5876 µg/L		0.06629	6.5876 ppb	0.06629	1.01%
Ca 317.933Radial†	16679.7	16133 µg/L		104.3	16133 ppb	104.3	0.65%
Cd 226.502†	262.6	-1.5419 µg/L		0.14972	-1.5419 ppb	0.14972	9.71%
Co 228.616†	590.6	25.918 µg/L		1.3374	25.918 ppb	1.3374	5.16%
Cr 267.716†	6237.0	144.83 µg/L		1.897	144.83 ppb	1.897	1.31%
Cu 324.752†	2193.0	27.746 µg/L		0.4177	27.746 ppb	0.4177	1.51%
Fe 238.204 Radial†	9437.2	83179 µg/L		201.7	83179 ppb	201.7	0.24%
K 766.490 Radial†	8984.0	6757.1 µg/L		26.43	6757.1 ppb	26.43	0.39%
Mg 279.077 IEC†	829.0	7797.1 µg/L		49.65	7797.1 ppb	49.65	0.64%
Mn 257.610†	645789.3	2348.7 µg/L		19.43	2348.7 ppb	19.43	0.83%
Mo 202.031†	140.3	18.482 µg/L		0.7893	18.482 ppb	0.7893	4.27%
Na 589.592 Radial†	2353.6	785.47 µg/L		7.072	785.47 ppb	7.072	0.90%

Ni 231.604†	1521.4	89.915 µg/L	2.7854	89.915 ppb	2.7854	3.10%
P 214.914†	293.8	610.93 µg/L	15.558	610.93 ppb	15.558	2.55%
Pb 220.353†	233.8	65.955 µg/L	4.0196	65.955 ppb	4.0196	6.09%
S 181.975 Axial†	138.7	670.91 µg/L	13.341	670.91 ppb	13.341	1.99%
Sb 206.836†	9.2	6.5677 µg/L	4.91387	6.5677 ppb	4.91387	74.82%
Se 196.026†	-40.7	150.13 µg/L	6.489	150.13 ppb	6.489	4.32%
SiO2†	99219.7	22848 µg/L	947.9	22848 ppb	947.9	4.15%
Si 251.611†	121643.7	10683 µg/L	450.9	10683 ppb	450.9	4.22%
Sn 189.927†	-6.3	-11.089 µg/L	0.2371	-11.089 ppb	0.2371	2.14%
Sr 421.552†	11351.1	123.89 µg/L	0.671	123.89 ppb	0.671	0.54%
Ti 334.940†	982053.5	2493.7 µg/L	26.27	2493.7 ppb	26.27	1.05%
Tl 190.801†	-21.5	12.854 µg/L	7.0727	12.854 ppb	7.0727	55.02%
U 409.014†	-1236.1	-127.18 µg/L	2.768	-127.18 ppb	2.768	2.18%
V 292.402†	8986.4	111.42 µg/L	1.457	111.42 ppb	1.457	1.31%
Zn 213.857†	8369.7	217.87 µg/L	2.033	217.87 ppb	2.033	0.93%

Sequence No.: 7

Sample ID: 1202015836|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 304

Date Collected: 2/9/2010 07:17:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015836|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54630.7	54630.7	102 %		07:17:47
1	Al 396.153Radial†	59671.9	58623.9	43493 µg/L	43493 ppb	07:17:47
1	Ca 317.933Radial†	15029.0	14583.8	14106 µg/L	14106 ppb	07:17:47
1	Fe 238.204 Radial†	9357.7	9177.0	80886 µg/L	80886 ppb	07:18:07
1	K 766.490 Radial†	8759.6	8452.2	6357.1 µg/L	6357.1 ppb	07:17:47
1	Mg 279.077 IEC†	849.6	823.0	7742.0 µg/L	7742.0 ppb	07:18:07
1	Na 589.592 Radial†	2306.6	1764.9	589.01 µg/L	589.01 ppb	07:17:47
1	Sr 421.552†	10333.5	10111.8	110.36 µg/L	110.36 ppb	07:17:47
1	Sc 361.383	1920790.5	1920790.5	102.01 %		07:19:11
1	Y 371.029	1362278.7	1362278.7	105.07 %		07:19:11
1	Ag 328.068†	-1472.3	-855.6	-1.4257 µg/L	-1.4257 ppb	07:19:17
1	As 188.979†	11.7	11.3	27.400 µg/L	27.400 ppb	07:19:38
1	B 249.677†	1020.0	724.5	-8.0062 µg/L	-8.0062 ppb	07:19:17
1	Ba 233.527†	14768.0	14508.2	406.48 µg/L	406.48 ppb	07:19:17
1	Be 313.107†	7069.9	10497.9	6.3850 µg/L	6.3850 ppb	07:19:17
1	Cd 226.502†	115.8	251.8	-1.5885 µg/L	-1.5885 ppb	07:19:38
1	Co 228.616†	503.6	511.4	22.302 µg/L	22.302 ppb	07:19:38
1	Cr 267.716†	7239.8	7131.3	165.59 µg/L	165.59 ppb	07:19:17
1	Cu 324.752†	4854.5	2056.7	26.421 µg/L	26.421 ppb	07:19:17
1	Mn 257.610†	609312.6	597601.3	2174.0 µg/L	2174.0 ppb	07:19:11
1	Mo 202.031†	155.4	162.0	20.769 µg/L	20.769 ppb	07:19:38
1	Ni 231.604†	2070.0	1731.8	102.18 µg/L	102.18 ppb	07:19:38
1	P 214.914†	317.6	284.1	590.76 µg/L	590.76 ppb	07:19:38
1	Pb 220.353†	310.1	214.0	60.366 µg/L	60.366 ppb	07:19:38
1	S 181.975 Axial†	143.1	126.2	610.85 µg/L	610.85 ppb	07:19:38
1	Sb 206.836†	27.8	4.4	1.6443 µg/L	1.6443 ppb	07:19:38
1	Se 196.026†	-29.4	-43.5	139.95 µg/L	139.95 ppb	07:19:38
1	SiO2†	71529.7	68794.9	15842 µg/L	15842 ppb	07:19:17
1	Si 251.611†	86013.2	84062.3	7382.4 µg/L	7382.4 ppb	07:19:17
1	Sn 189.927†	-6.7	-5.4	-10.439 µg/L	-10.439 ppb	07:19:38
1	Ti 334.940†	895917.2	878209.8	2230.0 µg/L	2230.0 ppb	07:19:11
1	Tl 190.801†	-43.3	-16.7	16.828 µg/L	16.828 ppb	07:19:38
1	U 409.014†	-1238.3	-1211.7	-124.48 µg/L	-124.48 ppb	07:19:11
1	V 292.402†	8729.8	8599.6	106.86 µg/L	106.86 ppb	07:19:17
1	Zn 213.857†	8866.3	8232.8	214.29 µg/L	214.29 ppb	07:19:17
2	Sc RADIAL	54614.7	54614.7	102 %		07:18:13
2	Al 396.153Radial†	59466.5	58439.3	43357 µg/L	43357 ppb	07:18:13
2	Ca 317.933Radial†	14991.9	14551.7	14075 µg/L	14075 ppb	07:18:13
2	Fe 238.204 Radial†	9449.8	9270.2	81707 µg/L	81707 ppb	07:18:33
2	K 766.490 Radial†	8743.5	8438.9	6347.1 µg/L	6347.1 ppb	07:18:13
2	Mg 279.077 IEC†	859.8	833.3	7839.0 µg/L	7839.0 ppb	07:18:33
2	Na 589.592 Radial†	2300.3	1759.4	587.17 µg/L	587.17 ppb	07:18:13
2	Sr 421.552†	10265.6	10048.2	109.67 µg/L	109.67 ppb	07:18:13
2	Sc 361.383	1924097.7	1924097.7	102.18 %		07:19:45
2	Y 371.029	1364335.7	1364335.7	105.23 %		07:19:45
2	Ag 328.068†	-1500.8	-881.0	-1.5863 µg/L	-1.5863 ppb	07:19:51
2	As 188.979†	7.9	7.5	19.568 µg/L	19.568 ppb	07:20:11
2	B 249.677†	1015.4	718.3	-8.7245 µg/L	-8.7245 ppb	07:19:51
2	Ba 233.527†	14779.0	14494.1	406.09 µg/L	406.09 ppb	07:19:51
2	Be 313.107†	6964.9	10383.2	6.3132 µg/L	6.3132 ppb	07:19:51
2	Cd 226.502†	103.1	239.2	-2.0555 µg/L	-2.0555 ppb	07:20:11
2	Co 228.616†	506.1	513.0	22.423 µg/L	22.423 ppb	07:20:11
2	Cr 267.716†	7259.9	7138.7	165.76 µg/L	165.76 ppb	07:19:51
2	Cu 324.752†	4910.8	2103.6	26.882 µg/L	26.882 ppb	07:19:51
2	Mn 257.610†	604824.9	592182.7	2154.4 µg/L	2154.4 ppb	07:19:45
2	Mo 202.031†	150.6	157.1	20.260 µg/L	20.260 ppb	07:20:11
2	Ni 231.604†	2067.0	1725.3	101.81 µg/L	101.81 ppb	07:20:11
2	P 214.914†	305.0	271.3	560.82 µg/L	560.82 ppb	07:20:11
2	Pb 220.353†	311.6	214.9	60.601 µg/L	60.601 ppb	07:20:11

2	S 181.975 Axial†	135.6	118.7	574.36 µg/L	574.36 ppb	07:20:11
2	Sb 206.836†	29.2	5.7	3.0404 µg/L	3.0404 ppb	07:20:11
2	Se 196.026†	-29.8	-43.9	141.58 µg/L	141.58 ppb	07:20:11
2	SiO2†	71329.9	68478.8	15769 µg/L	15769 ppb	07:19:51
2	Si 251.611†	85726.2	83636.4	7345.0 µg/L	7345.0 ppb	07:19:51
2	Sn 189.927†	-4.0	-2.8	-9.2161 µg/L	-9.2161 ppb	07:20:11
2	Ti 334.940†	889855.1	870767.5	2211.1 µg/L	2211.1 ppb	07:19:45
2	Tl 190.801†	-44.7	-18.0	14.761 µg/L	14.761 ppb	07:20:11
2	U 409.014†	-1181.4	-1153.8	-119.22 µg/L	-119.22 ppb	07:19:45
2	V 292.402†	8747.1	8601.9	106.98 µg/L	106.98 ppb	07:19:51
2	Zn 213.857†	8828.1	8180.4	212.85 µg/L	212.85 ppb	07:19:51
3	Sc RADIAL	54894.3	54894.3	102 %		07:18:39
3	Al 396.153Radial†	59685.3	58355.6	43294 µg/L	43294 ppb	07:18:39
3	Ca 317.933Radial†	14986.5	14471.4	13997 µg/L	13997 ppb	07:18:39
3	Fe 238.204 Radial†	9385.7	9160.2	80738 µg/L	80738 ppb	07:18:59
3	K 766.490 Radial†	8825.6	8475.5	6374.6 µg/L	6374.6 ppb	07:18:39
3	Mg 279.077 IEC†	858.8	828.0	7789.5 µg/L	7789.5 ppb	07:18:59
3	Na 589.592 Radial†	2323.7	1770.8	590.99 µg/L	590.99 ppb	07:18:39
3	Sr 421.552†	10299.5	10029.9	109.47 µg/L	109.47 ppb	07:18:39
3	Sc 361.383	1912779.6	1912779.6	101.58 %		07:20:18
3	Y 371.029	1354438.4	1354438.4	104.47 %		07:20:18
3	Ag 328.068†	-1439.8	-829.6	-1.2385 µg/L	-1.2385 ppb	07:20:24
3	As 188.979†	7.3	7.0	18.513 µg/L	18.513 ppb	07:20:45
3	B 249.677†	994.2	703.3	-8.9318 µg/L	-8.9318 ppb	07:20:24
3	Ba 233.527†	14296.6	14104.8	395.18 µg/L	395.18 ppb	07:20:24
3	Be 313.107†	6731.2	10193.5	6.1953 µg/L	6.1953 ppb	07:20:24
3	Cd 226.502†	109.8	246.4	-1.7386 µg/L	-1.7386 ppb	07:20:45
3	Co 228.616†	477.8	488.2	21.184 µg/L	21.184 ppb	07:20:45
3	Cr 267.716†	6931.1	6857.0	159.22 µg/L	159.22 ppb	07:20:24
3	Cu 324.752†	4853.5	2075.7	26.541 µg/L	26.541 ppb	07:20:24
3	Mn 257.610†	594128.7	585155.4	2128.9 µg/L	2128.9 ppb	07:20:18
3	Mo 202.031†	138.8	146.3	19.044 µg/L	19.044 ppb	07:20:45
3	Ni 231.604†	1949.0	1621.2	95.714 µg/L	95.714 ppb	07:20:45
3	P 214.914†	286.1	254.4	523.19 µg/L	523.19 ppb	07:20:45
3	Pb 220.353†	313.7	218.8	61.731 µg/L	61.731 ppb	07:20:45
3	S 181.975 Axial†	144.7	128.4	621.47 µg/L	621.47 ppb	07:20:45
3	Sb 206.836†	25.5	2.3	-0.4418 µg/L	-0.4418 ppb	07:20:45
3	Se 196.026†	-16.9	-31.4	159.17 µg/L	159.17 ppb	07:20:45
3	SiO2†	67135.9	64763.1	14913 µg/L	14913 ppb	07:20:24
3	Si 251.611†	80415.9	78905.2	6929.5 µg/L	6929.5 ppb	07:20:24
3	Sn 189.927†	-7.5	-6.2	-10.798 µg/L	-10.798 ppb	07:20:45
3	Ti 334.940†	871076.7	857434.2	2177.2 µg/L	2177.2 ppb	07:20:18
3	Tl 190.801†	-49.3	-22.7	7.1869 µg/L	7.1869 ppb	07:20:45
3	U 409.014†	-1138.2	-1118.2	-115.78 µg/L	-115.78 ppb	07:20:18
3	V 292.402†	8412.3	8323.0	103.70 µg/L	103.70 ppb	07:20:24
3	Zn 213.857†	8609.6	8016.5	208.56 µg/L	208.56 ppb	07:20:24

Mean Data: 1202015836|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1919222.6	101.92 %	0.309			0.30%
Sc RADIAL	54713.2	102 %	0.3			0.29%
Y 371.029	1360350.9	104.92 %	0.403			0.38%
Ag 328.068†	-855.4	-1.4168 µg/L	0.17407	-1.4168 ppb	0.17407	12.29%
Al 396.153Radial†	58472.9	43381 µg/L	101.8	43381 ppb	101.8	0.23%
As 188.979†	8.6	21.827 µg/L	4.8551	21.827 ppb	4.8551	22.24%
B 249.677†	715.4	-8.5542 µg/L	0.48576	-8.5542 ppb	0.48576	5.68%
Ba 233.527†	14369.0	402.58 µg/L	6.415	402.58 ppb	6.415	1.59%
Be 313.107†	10358.2	6.2978 µg/L	0.09577	6.2978 ppb	0.09577	1.52%
Ca 317.933Radial†	14535.7	14059 µg/L	56.0	14059 ppb	56.0	0.40%
Cd 226.502†	245.8	-1.7942 µg/L	0.23840	-1.7942 ppb	0.23840	13.29%
Co 228.616†	504.2	21.970 µg/L	0.6832	21.970 ppb	0.6832	3.11%
Cr 267.716†	7042.3	163.52 µg/L	3.727	163.52 ppb	3.727	2.28%
Cu 324.752†	2078.7	26.614 µg/L	0.2389	26.614 ppb	0.2389	0.90%
Fe 238.204 Radial†	9202.4	81110 µg/L	522.1	81110 ppb	522.1	0.64%
K 766.490 Radial†	8455.5	6359.6 µg/L	13.91	6359.6 ppb	13.91	0.22%
Mg 279.077 IEC†	828.1	7790.2 µg/L	48.51	7790.2 ppb	48.51	0.62%
Mn 257.610†	591646.4	2152.4 µg/L	22.61	2152.4 ppb	22.61	1.05%
Mo 202.031†	155.1	20.024 µg/L	0.8865	20.024 ppb	0.8865	4.43%
Na 589.592 Radial†	1765.0	589.06 µg/L	1.910	589.06 ppb	1.910	0.32%

Ni 231.604†	1692.8	99.900 µg/L	3.6303	99.900 ppb	3.6303	3.63%
P 214.914†	269.9	558.25 µg/L	33.858	558.25 ppb	33.858	6.07%
Pb 220.353†	215.9	60.899 µg/L	0.7298	60.899 ppb	0.7298	1.20%
S 181.975 Axial†	124.5	602.23 µg/L	24.710	602.23 ppb	24.710	4.10%
Sb 206.836†	4.1	1.4143 µg/L	1.75246	1.4143 ppb	1.75246	123.91%
Se 196.026†	-39.6	146.90 µg/L	10.658	146.90 ppb	10.658	7.26%
SiO2†	67345.6	15508 µg/L	516.3	15508 ppb	516.3	3.33%
Si 251.611†	82201.3	7219.0 µg/L	251.38	7219.0 ppb	251.38	3.48%
Sn 189.927†	-4.8	-10.151 µg/L	0.8293	-10.151 ppb	0.8293	8.17%
Sr 421.552†	10063.3	109.83 µg/L	0.469	109.83 ppb	0.469	0.43%
Ti 334.940†	868803.8	2206.1 µg/L	26.74	2206.1 ppb	26.74	1.21%
Tl 190.801†	-19.1	12.925 µg/L	5.0758	12.925 ppb	5.0758	39.27%
U 409.014†	-1161.2	-119.83 µg/L	4.379	-119.83 ppb	4.379	3.65%
V 292.402†	8508.2	105.85 µg/L	1.858	105.85 ppb	1.858	1.76%
Zn 213.857†	8143.2	211.90 µg/L	2.978	211.90 ppb	2.978	1.41%

Sequence No.: 8

Sample ID: 1202015838|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 305

Date Collected: 2/9/2010 07:20:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015838|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54658.7	54658.7	102 %		07:21:27
1	Al 396.153Radial†	110001.6	108000.8	80116 µg/L	80116 ppb	07:21:27
1	Ca 317.933Radial†	23131.6	22530.3	21792 µg/L	21792 ppb	07:21:47
1	Fe 238.204 Radial†	11449.0	11225.3	98950 µg/L	98950 ppb	07:21:47
1	K 766.490 Radial†	18905.7	18407.9	13845 µg/L	13845 ppb	07:21:27
1	Mg 279.077 IEC†	1683.1	1640.8	15511 µg/L	15511 ppb	07:21:47
1	Na 589.592 Radial†	17193.5	16377.7	5465.8 µg/L	5465.8 ppb	07:21:27
1	Sr 421.552†	58223.1	57118.1	623.40 µg/L	623.40 ppb	07:21:27
1	Sc 361.383	1893979.3	1893979.3	100.58 %		07:22:52
1	Y 371.029	1351158.6	1351158.6	104.21 %		07:22:52
1	Ag 328.068†	59615.9	59858.8	511.56 µg/L	511.56 ppb	07:22:58
1	As 188.979†	265.3	263.6	551.99 µg/L	551.99 ppb	07:23:18
1	B 249.677†	12337.6	11990.8	511.11 µg/L	511.11 ppb	07:22:58
1	Ba 233.527†	35335.1	35161.2	985.88 µg/L	985.88 ppb	07:22:58
1	Be 313.107†	760865.3	760030.1	522.43 µg/L	522.43 ppb	07:22:52
1	Cd 226.502†	17548.6	17585.4	509.73 µg/L	509.73 ppb	07:22:58
1	Co 228.616†	10243.5	10202.0	530.47 µg/L	530.47 ppb	07:22:58
1	Cr 267.716†	30426.2	30283.9	703.34 µg/L	703.34 ppb	07:22:58
1	Cu 324.752†	81579.6	78405.3	592.37 µg/L	592.37 ppb	07:22:58
1	Mn 257.610†	769658.9	765475.7	2783.8 µg/L	2783.8 ppb	07:22:52
1	Mo 202.031†	4937.0	4918.1	540.92 µg/L	540.92 ppb	07:23:18
1	Ni 231.604†	11307.7	10944.7	639.95 µg/L	639.95 ppb	07:22:58
1	P 214.914†	572.0	541.5	1120.2 µg/L	1120.2 ppb	07:23:18
1	Pb 220.353†	2139.5	2037.1	580.66 µg/L	580.66 ppb	07:23:18
1	S 181.975 Axial†	1300.2	1278.6	6186.7 µg/L	6186.7 ppb	07:23:18
1	Sb 206.836†	554.9	528.8	539.83 µg/L	539.83 ppb	07:23:18
1	Se 196.026†	301.0	284.6	709.66 µg/L	709.66 ppb	07:23:18
1	SiO2†	116993.2	114987.9	26479 µg/L	26479 ppb	07:22:58
1	Si 251.611†	142434.1	141350.4	12414 µg/L	12414 ppb	07:22:52
1	Sn 189.927†	1151.4	1145.9	551.04 µg/L	551.04 ppb	07:23:18
1	Ti 334.940†	1409075.9	1400832.7	3556.8 µg/L	3556.8 ppb	07:22:52
1	Tl 190.801†	296.8	320.9	537.80 µg/L	537.80 ppb	07:23:18
1	U 409.014†	4477.4	4453.8	397.97 µg/L	397.97 ppb	07:22:52
1	V 292.402†	58266.7	57971.1	671.29 µg/L	671.29 ppb	07:22:58
1	Zn 213.857†	30538.3	29902.4	786.25 µg/L	786.25 ppb	07:22:58
2	Sc RADIAL	54677.4	54677.4	102 %		07:21:53
2	Al 396.153Radial†	110830.7	108777.5	80692 µg/L	80692 ppb	07:21:53
2	Ca 317.933Radial†	23092.0	22483.7	21747 µg/L	21747 ppb	07:22:13
2	Fe 238.204 Radial†	11419.7	11192.7	98663 µg/L	98663 ppb	07:22:13
2	K 766.490 Radial†	19011.7	18505.6	13919 µg/L	13919 ppb	07:21:53
2	Mg 279.077 IEC†	1680.3	1637.5	15479 µg/L	15479 ppb	07:22:13
2	Na 589.592 Radial†	17225.0	16402.8	5474.2 µg/L	5474.2 ppb	07:21:53
2	Sr 421.552†	58687.6	57554.4	628.16 µg/L	628.16 ppb	07:21:53
2	Sc 361.383	1888703.2	1888703.2	100.30 %		07:23:26
2	Y 371.029	1347779.8	1347779.8	103.95 %		07:23:26
2	Ag 328.068†	59946.7	60354.2	515.73 µg/L	515.73 ppb	07:23:32
2	As 188.979†	266.5	265.5	556.03 µg/L	556.03 ppb	07:23:52
2	B 249.677†	12435.9	12123.0	517.47 µg/L	517.47 ppb	07:23:32
2	Ba 233.527†	35597.4	35520.9	995.97 µg/L	995.97 ppb	07:23:32
2	Be 313.107†	765645.9	766909.4	527.16 µg/L	527.16 ppb	07:23:26
2	Cd 226.502†	17732.9	17817.9	516.65 µg/L	516.65 ppb	07:23:32
2	Co 228.616†	10382.8	10369.3	539.22 µg/L	539.22 ppb	07:23:32
2	Cr 267.716†	30751.8	30693.0	712.85 µg/L	712.85 ppb	07:23:32
2	Cu 324.752†	82077.6	79128.4	597.67 µg/L	597.67 ppb	07:23:32
2	Mn 257.610†	774422.2	772362.3	2808.7 µg/L	2808.7 ppb	07:23:26
2	Mo 202.031†	4942.0	4936.8	542.96 µg/L	542.96 ppb	07:23:52
2	Ni 231.604†	11382.3	11050.5	646.11 µg/L	646.11 ppb	07:23:32
2	P 214.914†	576.3	547.4	1133.5 µg/L	1133.5 ppb	07:23:52
2	Pb 220.353†	2137.4	2040.9	581.78 µg/L	581.78 ppb	07:23:52

2	S 181.975 Axial†	1290.5	1272.6	6157.5 µg/L	6157.5 ppb	07:23:52
2	Sb 206.836†	553.5	528.9	539.89 µg/L	539.89 ppb	07:23:52
2	Se 196.026†	310.8	295.2	726.02 µg/L	726.02 ppb	07:23:52
2	SiO2†	115325.7	113650.4	26171 µg/L	26171 ppb	07:23:32
2	Si 251.611†	144197.9	143504.5	12603 µg/L	12603 ppb	07:23:26
2	Sn 189.927†	1157.1	1154.8	555.40 µg/L	555.40 ppb	07:23:52
2	Ti 334.940†	1416130.8	1411779.9	3584.6 µg/L	3584.6 ppb	07:23:26
2	Tl 190.801†	301.7	326.6	546.64 µg/L	546.64 ppb	07:23:52
2	U 409.014†	4579.3	4567.8	408.59 µg/L	408.59 ppb	07:23:26
2	V 292.402†	58749.7	58614.5	678.56 µg/L	678.56 ppb	07:23:32
2	Zn 213.857†	30799.4	30247.5	795.41 µg/L	795.41 ppb	07:23:32
3	Sc RADIAL	55118.5	55118.5	103 %		07:22:19
3	Al 396.153Radial†	112378.5	109413.7	81165 µg/L	81165 ppb	07:22:19
3	Ca 317.933Radial†	23021.2	22233.4	21505 µg/L	21505 ppb	07:22:39
3	Fe 238.204 Radial†	11400.0	11083.8	97703 µg/L	97703 ppb	07:22:39
3	K 766.490 Radial†	19291.7	18628.8	14011 µg/L	14011 ppb	07:22:19
3	Mg 279.077 IEC†	1691.0	1634.7	15453 µg/L	15453 ppb	07:22:39
3	Na 589.592 Radial†	17538.9	16573.1	5531.0 µg/L	5531.0 ppb	07:22:19
3	Sr 421.552†	59664.8	58044.7	633.51 µg/L	633.51 ppb	07:22:19
3	Sc 361.383	1906553.9	1906553.9	101.25 %		07:24:00
3	Y 371.029	1356425.9	1356425.9	104.62 %		07:24:00
3	Ag 328.068†	58635.5	58499.6	499.92 µg/L	499.92 ppb	07:24:06
3	As 188.979†	249.3	246.0	515.43 µg/L	515.43 ppb	07:24:26
3	B 249.677†	12097.9	11673.2	496.83 µg/L	496.83 ppb	07:24:06
3	Ba 233.527†	34249.7	33857.5	949.32 µg/L	949.32 ppb	07:24:06
3	Be 313.107†	754054.4	748314.0	514.38 µg/L	514.38 ppb	07:24:00
3	Cd 226.502†	17135.1	17061.9	494.36 µg/L	494.36 ppb	07:24:06
3	Co 228.616†	9915.3	9810.7	509.93 µg/L	509.93 ppb	07:24:06
3	Cr 267.716†	29317.0	28988.9	673.27 µg/L	673.27 ppb	07:24:06
3	Cu 324.752†	78851.9	75176.3	568.37 µg/L	568.37 ppb	07:24:06
3	Mn 257.610†	764633.8	755465.8	2747.4 µg/L	2747.4 ppb	07:24:00
3	Mo 202.031†	4636.6	4589.1	504.94 µg/L	504.94 ppb	07:24:26
3	Ni 231.604†	10931.9	10499.4	613.95 µg/L	613.95 ppb	07:24:06
3	P 214.914†	545.4	511.4	1055.0 µg/L	1055.0 ppb	07:24:26
3	Pb 220.353†	2053.2	1937.8	552.44 µg/L	552.44 ppb	07:24:26
3	S 181.975 Axial†	1246.5	1217.1	5889.1 µg/L	5889.1 ppb	07:24:26
3	Sb 206.836†	508.8	479.7	489.35 µg/L	489.35 ppb	07:24:26
3	Se 196.026†	303.9	285.4	707.78 µg/L	707.78 ppb	07:24:26
3	SiO2†	105782.3	103148.3	23752 µg/L	23752 ppb	07:24:06
3	Si 251.611†	135470.6	133538.9	11727 µg/L	11727 ppb	07:24:00
3	Sn 189.927†	1075.7	1063.5	510.94 µg/L	510.94 ppb	07:24:26
3	Ti 334.940†	1396668.4	1379338.5	3502.2 µg/L	3502.2 ppb	07:24:00
3	Tl 190.801†	290.1	312.3	524.42 µg/L	524.42 ppb	07:24:26
3	U 409.014†	4577.4	4523.2	404.60 µg/L	404.60 ppb	07:24:00
3	V 292.402†	56180.5	55528.6	643.28 µg/L	643.28 ppb	07:24:06
3	Zn 213.857†	29793.7	28966.8	761.57 µg/L	761.57 ppb	07:24:06

Mean Data: 1202015838|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1896412.1	100.71 %		0.487			0.48%
Sc RADIAL	54818.2	102 %		0.5			0.47%
Y 371.029	1351788.1	104.26 %		0.336			0.32%
Ag 328.068†	59570.9	509.07 µg/L		8.194	509.07 ppb	8.194	1.61%
Al 396.153Radial†	108730.6	80658 µg/L		525.3	80658 ppb	525.3	0.65%
As 188.979†	258.4	541.15 µg/L		22.363	541.15 ppb	22.363	4.13%
B 249.677†	11929.0	508.47 µg/L		10.566	508.47 ppb	10.566	2.08%
Ba 233.527†	34846.6	977.06 µg/L		24.543	977.06 ppb	24.543	2.51%
Be 313.107†	758417.8	521.32 µg/L		6.464	521.32 ppb	6.464	1.24%
Ca 317.933Radial†	22415.8	21681 µg/L		154.4	21681 ppb	154.4	0.71%
Cd 226.502†	17488.4	506.92 µg/L		11.409	506.92 ppb	11.409	2.25%
Co 228.616†	10127.3	526.54 µg/L		15.034	526.54 ppb	15.034	2.86%
Cr 267.716†	29988.6	696.49 µg/L		20.661	696.49 ppb	20.661	2.97%
Cu 324.752†	77570.0	586.13 µg/L		15.613	586.13 ppb	15.613	2.66%
Fe 238.204 Radial†	11167.3	98439 µg/L		653.3	98439 ppb	653.3	0.66%
K 766.490 Radial†	18514.1	13925 µg/L		83.3	13925 ppb	83.3	0.60%
Mg 279.077 IEC†	1637.7	15481 µg/L		28.9	15481 ppb	28.9	0.19%
Mn 257.610†	764434.6	2780.0 µg/L		30.83	2780.0 ppb	30.83	1.11%
Mo 202.031†	4814.6	529.61 µg/L		21.385	529.61 ppb	21.385	4.04%
Na 589.592 Radial†	16451.2	5490.4 µg/L		35.48	5490.4 ppb	35.48	0.65%

Ni 231.604†	10831.6	633.34 µg/L	17.073	633.34 ppb	17.073	2.70%
P 214.914†	533.4	1102.9 µg/L	41.96	1102.9 ppb	41.96	3.80%
Pb 220.353†	2005.3	571.63 µg/L	16.623	571.63 ppb	16.623	2.91%
S 181.975 Axial†	1256.1	6077.8 µg/L	164.06	6077.8 ppb	164.06	2.70%
Sb 206.836†	512.5	523.03 µg/L	29.160	523.03 ppb	29.160	5.58%
Se 196.026†	288.4	714.48 µg/L	10.031	714.48 ppb	10.031	1.40%
SiO2†	110595.5	25467 µg/L	1493.1	25467 ppb	1493.1	5.86%
Si 251.611†	139464.6	12248 µg/L	460.5	12248 ppb	460.5	3.76%
Sn 189.927†	1121.4	539.13 µg/L	24.508	539.13 ppb	24.508	4.55%
Sr 421.552†	57572.4	628.36 µg/L	5.060	628.36 ppb	5.060	0.81%
Ti 334.940†	1397317.0	3547.9 µg/L	41.92	3547.9 ppb	41.92	1.18%
Tl 190.801†	319.9	536.29 µg/L	11.190	536.29 ppb	11.190	2.09%
U 409.014†	4515.0	403.72 µg/L	5.363	403.72 ppb	5.363	1.33%
V 292.402†	57371.4	664.38 µg/L	18.632	664.38 ppb	18.632	2.80%
Zn 213.857†	29705.6	781.07 µg/L	17.503	781.07 ppb	17.503	2.24%

Sequence No.: 9

Sample ID: 1202015839|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 306

Data Collected: 2/9/2010 07:24:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015839|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54032.7	54032.7	101 %		07:25:08
1	Al 396.153Radial†	118656.8	117846.9	87421 µg/L	87421 ppb	07:25:08
1	Ca 317.933Radial†	24547.2	24199.2	23406 µg/L	23406 ppb	07:25:29
1	Fe 238.204 Radial†	11686.0	11590.8	102170 µg/L	102170 ppb	07:25:29
1	K 766.490 Radial†	19787.0	19498.1	14665 µg/L	14665 ppb	07:25:08
1	Mg 279.077 IEC†	1740.6	1717.1	16233 µg/L	16233 ppb	07:25:29
1	Na 589.592 Radial†	17692.6	17068.9	5696.5 µg/L	5696.5 ppb	07:25:08
1	Sr 421.552†	60764.2	60303.7	658.17 µg/L	658.17 ppb	07:25:08
1	Sc 361.383	1860494.1	1860494.1	98.804 %		07:26:34
1	Y 371.029	1334171.2	1334171.2	102.90 %		07:26:34
1	Ag 328.068†	59335.0	60641.3	518.39 µg/L	518.39 ppb	07:26:39
1	As 188.979†	260.1	263.0	550.84 µg/L	550.84 ppb	07:27:00
1	B 249.677†	12359.2	12233.4	520.87 µg/L	520.87 ppb	07:26:39
1	Ba 233.527†	36674.1	37148.8	1041.6 µg/L	1041.6 ppb	07:26:39
1	Be 313.107†	769263.8	782145.1	537.60 µg/L	537.60 ppb	07:26:34
1	Cd 226.502†	17465.0	17814.8	516.20 µg/L	516.20 ppb	07:26:39
1	Co 228.616†	10273.2	10415.4	541.33 µg/L	541.33 ppb	07:26:39
1	Cr 267.716†	32166.3	32589.6	756.87 µg/L	756.87 ppb	07:26:39
1	Cu 324.752†	82186.6	80479.4	608.12 µg/L	608.12 ppb	07:26:39
1	Mn 257.610†	758201.7	767651.9	2792.1 µg/L	2792.1 ppb	07:26:34
1	Mo 202.031†	5065.7	5136.7	564.92 µg/L	564.92 ppb	07:27:00
1	Ni 231.604†	11747.4	11592.1	677.79 µg/L	677.79 ppb	07:26:39
1	P 214.914†	607.0	587.1	1222.1 µg/L	1222.1 ppb	07:27:00
1	Pb 220.353†	2171.0	2107.3	600.95 µg/L	600.95 ppb	07:27:00
1	S 181.975 Axial†	1333.5	1335.6	6462.4 µg/L	6462.4 ppb	07:27:00
1	Sb 206.836†	545.8	529.6	540.25 µg/L	540.25 ppb	07:27:00
1	Se 196.026†	304.5	293.5	731.76 µg/L	731.76 ppb	07:27:00
1	SiO2†	130894.0	131150.5	30201 µg/L	30201 ppb	07:26:39
1	Si 251.611†	161066.5	162757.0	14293 µg/L	14293 ppb	07:26:34
1	Sn 189.927†	1174.9	1190.3	572.45 µg/L	572.45 ppb	07:27:00
1	Ti 334.940†	1458472.1	1476040.8	3747.8 µg/L	3747.8 ppb	07:26:34
1	Tl 190.801†	310.6	340.1	569.05 µg/L	569.05 ppb	07:27:00
1	U 409.014†	4519.3	4576.3	408.78 µg/L	408.78 ppb	07:26:34
1	V 292.402†	58258.0	59004.9	683.65 µg/L	683.65 ppb	07:26:39
1	Zn 213.857†	30455.1	30364.7	798.16 µg/L	798.16 ppb	07:26:39
2	Sc RADIAL	53897.8	53897.8	100 %		07:25:34
2	Al 396.153Radial†	118460.0	117945.8	87494 µg/L	87494 ppb	07:25:34
2	Ca 317.933Radial†	24442.7	24156.1	23365 µg/L	23365 ppb	07:25:55
2	Fe 238.204 Radial†	11624.0	11558.2	101880 µg/L	101880 ppb	07:25:55
2	K 766.490 Radial†	19808.1	19568.3	14718 µg/L	14718 ppb	07:25:34
2	Mg 279.077 IEC†	1732.1	1712.9	16193 µg/L	16193 ppb	07:25:55
2	Na 589.592 Radial†	17646.2	17066.7	5695.8 µg/L	5695.8 ppb	07:25:34
2	Sr 421.552†	60399.2	60091.4	655.85 µg/L	655.85 ppb	07:25:34
2	Sc 361.383	1880219.9	1880219.9	99.851 %		07:27:08
2	Y 371.029	1346376.4	1346376.4	103.85 %		07:27:08
2	Ag 328.068†	59180.1	59856.0	511.72 µg/L	511.72 ppb	07:27:13
2	As 188.979†	260.0	260.2	545.03 µg/L	545.03 ppb	07:27:34
2	B 249.677†	12324.1	12067.0	513.21 µg/L	513.21 ppb	07:27:13
2	Ba 233.527†	36558.7	36643.8	1027.4 µg/L	1027.4 ppb	07:27:13
2	Be 313.107†	772680.9	777399.0	534.34 µg/L	534.34 ppb	07:27:08
2	Cd 226.502†	17440.5	17604.9	510.01 µg/L	510.01 ppb	07:27:13
2	Co 228.616†	10216.8	10249.8	532.65 µg/L	532.65 ppb	07:27:13
2	Cr 267.716†	31988.8	32070.2	744.81 µg/L	744.81 ppb	07:27:13
2	Cu 324.752†	81799.2	79218.8	598.78 µg/L	598.78 ppb	07:27:13
2	Mn 257.610†	762083.6	763488.9	2777.0 µg/L	2777.0 ppb	07:27:08
2	Mo 202.031†	4939.1	4956.2	545.19 µg/L	545.19 ppb	07:27:34
2	Ni 231.604†	11724.4	11444.3	669.17 µg/L	669.17 ppb	07:27:13
2	P 214.914†	596.3	569.9	1184.0 µg/L	1184.0 ppb	07:27:34
2	Pb 220.353†	2104.2	2017.3	575.32 µg/L	575.32 ppb	07:27:34

2	S 181.975 Axial†	1305.6	1293.5	6258.9 µg/L	6258.9 ppb	07:27:34
2	Sb 206.836†	544.1	522.0	532.33 µg/L	532.33 ppb	07:27:34
2	Se 196.026†	303.9	289.6	724.79 µg/L	724.79 ppb	07:27:34
2	SiO2†	128861.8	127725.5	29412 µg/L	29412 ppb	07:27:13
2	Si 251.611†	161572.8	161553.9	14188 µg/L	14188 ppb	07:27:08
2	Sn 189.927†	1148.7	1151.5	553.57 µg/L	553.57 ppb	07:27:34
2	Ti 334.940†	1461702.9	1463790.0	3716.7 µg/L	3716.7 ppb	07:27:08
2	Tl 190.801†	297.7	323.9	544.58 µg/L	544.58 ppb	07:27:34
2	U 409.014†	4520.8	4529.8	404.51 µg/L	404.51 ppb	07:27:08
2	V 292.402†	57860.0	57987.8	671.96 µg/L	671.96 ppb	07:27:13
2	Zn 213.857†	30375.4	29961.4	787.50 µg/L	787.50 ppb	07:27:13
3	Sc RADIAL	54047.4	54047.4	101 %		07:26:00
3	Al 396.153Radial†	119725.8	118875.9	88185 µg/L	88185 ppb	07:26:00
3	Ca 317.933Radial†	24633.6	24278.3	23483 µg/L	23483 ppb	07:26:21
3	Fe 238.204 Radial†	11763.0	11664.1	102820 µg/L	102820 ppb	07:26:21
3	K 766.490 Radial†	19965.9	19670.3	14795 µg/L	14795 ppb	07:26:00
3	Mg 279.077 IEC†	1740.2	1716.2	16223 µg/L	16223 ppb	07:26:21
3	Na 589.592 Radial†	17835.5	17206.0	5742.3 µg/L	5742.3 ppb	07:26:00
3	Sr 421.552†	61200.3	60720.2	662.71 µg/L	662.71 ppb	07:26:00
3	Sc 361.383	1875665.8	1875665.8	99.609 %		07:27:42
3	Y 371.029	1340976.7	1340976.7	103.43 %		07:27:42
3	Ag 328.068†	58357.3	59173.9	505.93 µg/L	505.93 ppb	07:27:47
3	As 188.979†	250.5	251.3	526.56 µg/L	526.56 ppb	07:28:08
3	B 249.677†	12076.5	11848.5	502.45 µg/L	502.45 ppb	07:27:47
3	Ba 233.527†	35501.2	35671.1	1000.1 µg/L	1000.1 ppb	07:27:47
3	Be 313.107†	742774.4	749254.1	515.00 µg/L	515.00 ppb	07:27:42
3	Cd 226.502†	16989.2	17194.1	497.73 µg/L	497.73 ppb	07:27:47
3	Co 228.616†	9839.2	9895.6	514.26 µg/L	514.26 ppb	07:27:47
3	Cr 267.716†	30740.8	30895.2	717.52 µg/L	717.52 ppb	07:27:47
3	Cu 324.752†	79270.1	76878.6	581.64 µg/L	581.64 ppb	07:27:47
3	Mn 257.610†	733627.5	736774.3	2680.4 µg/L	2680.4 ppb	07:27:42
3	Mo 202.031†	4677.1	4705.2	517.81 µg/L	517.81 ppb	07:28:08
3	Ni 231.604†	11318.3	11065.1	647.05 µg/L	647.05 ppb	07:27:47
3	P 214.914†	563.7	538.6	1113.6 µg/L	1113.6 ppb	07:28:08
3	Pb 220.353†	2032.5	1950.4	556.24 µg/L	556.24 ppb	07:28:08
3	S 181.975 Axial†	1261.3	1252.2	6058.8 µg/L	6058.8 ppb	07:28:08
3	Sb 206.836†	517.6	496.7	506.32 µg/L	506.32 ppb	07:28:08
3	Se 196.026†	286.7	273.1	700.70 µg/L	700.70 ppb	07:28:08
3	SiO2†	115478.5	114603.0	26390 µg/L	26390 ppb	07:27:47
3	Si 251.611†	146739.5	147055.3	12915 µg/L	12915 ppb	07:27:42
3	Sn 189.927†	1073.8	1079.1	518.09 µg/L	518.09 ppb	07:28:08
3	Ti 334.940†	1402697.3	1408107.3	3575.2 µg/L	3575.2 ppb	07:27:42
3	Tl 190.801†	285.1	312.0	525.33 µg/L	525.33 ppb	07:28:08
3	U 409.014†	4348.2	4367.6	389.33 µg/L	389.33 ppb	07:27:42
3	V 292.402†	55878.4	56139.1	650.94 µg/L	650.94 ppb	07:27:47
3	Zn 213.857†	29679.4	29336.6	770.96 µg/L	770.96 ppb	07:27:47

Mean Data: 1202015839|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1872126.6	99.421 %		0.5485			0.55%
Sc RADIAL	53992.6	101 %		0.2			0.15%
Y 371.029	1340508.1	103.39 %		0.472			0.46%
Ag 328.068†	59890.4	512.01 µg/L		6.232	512.01 ppb	6.232	1.22%
Al 396.153Radial†	118222.9	87700 µg/L		421.6	87700 ppb	421.6	0.48%
As 188.979†	258.1	540.81 µg/L		12.676	540.81 ppb	12.676	2.34%
B 249.677†	12049.6	512.18 µg/L		9.258	512.18 ppb	9.258	1.81%
Ba 233.527†	36487.9	1023.0 µg/L		21.06	1023.0 ppb	21.06	2.06%
Be 313.107†	769599.4	528.98 µg/L		12.217	528.98 ppb	12.217	2.31%
Ca 317.933Radial†	24211.2	23418 µg/L		59.9	23418 ppb	59.9	0.26%
Cd 226.502†	17537.9	507.98 µg/L		9.399	507.98 ppb	9.399	1.85%
Co 228.616†	10186.9	529.41 µg/L		13.819	529.41 ppb	13.819	2.61%
Cr 267.716†	31851.7	739.73 µg/L		20.160	739.73 ppb	20.160	2.73%
Cu 324.752†	78858.9	596.18 µg/L		13.432	596.18 ppb	13.432	2.25%
Fe 238.204 Radial†	11604.4	102290 µg/L		478.1	102290 ppb	478.1	0.47%
K 766.490 Radial†	19578.9	14726 µg/L		65.1	14726 ppb	65.1	0.44%
Mg 279.077 IEC†	1715.4	16217 µg/L		20.9	16217 ppb	20.9	0.13%
Mn 257.610†	755971.7	2749.8 µg/L		60.60	2749.8 ppb	60.60	2.20%
Mo 202.031†	4932.7	542.64 µg/L		23.657	542.64 ppb	23.657	4.36%
Na 589.592 Radial†	17113.8	5711.5 µg/L		26.64	5711.5 ppb	26.64	0.47%

Ni 231.604†	11367.2	664.67 µg/L	15.857	664.67 ppb	15.857	2.39%
P 214.914†	565.2	1173.3 µg/L	55.04	1173.3 ppb	55.04	4.69%
Pb 220.353†	2025.0	577.50 µg/L	22.433	577.50 ppb	22.433	3.88%
S 181.975 Axial†	1293.8	6260.0 µg/L	201.83	6260.0 ppb	201.83	3.22%
Sb 206.836†	516.1	526.30 µg/L	17.753	526.30 ppb	17.753	3.37%
Se 196.026†	285.4	719.08 µg/L	16.298	719.08 ppb	16.298	2.27%
SiO2†	124493.0	28668 µg/L	2011.3	28668 ppb	2011.3	7.02%
Si 251.611†	157122.1	13799 µg/L	767.4	13799 ppb	767.4	5.56%
Sn 189.927†	1140.3	548.04 µg/L	27.598	548.04 ppb	27.598	5.04%
Sr 421.552†	60371.8	658.91 µg/L	3.491	658.91 ppb	3.491	0.53%
Ti 334.940†	1449312.7	3679.9 µg/L	91.95	3679.9 ppb	91.95	2.50%
Tl 190.801†	325.3	546.32 µg/L	21.910	546.32 ppb	21.910	4.01%
U 409.014†	4491.2	400.88 µg/L	10.224	400.88 ppb	10.224	2.55%
V 292.402†	57710.6	668.85 µg/L	16.572	668.85 ppb	16.572	2.48%
Zn 213.857†	29887.6	785.54 µg/L	13.708	785.54 ppb	13.708	1.75%

Sequence No.: 10

Sample ID: 1202015837|950667|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 307

Date Collected: 2/9/2010 07:28:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015837|950667|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52575.2	52575.2	98.0 %		07:28:50
1	Al 396.153Radial†	12532.5	12806.4	9501.2 µg/L	9501.2 ppb	07:28:50
1	Ca 317.933Radial†	3654.0	3552.1	3435.7 µg/L	3435.7 ppb	07:29:10
1	Fe 238.204 Radial†	2027.9	2055.8	18119 µg/L	18119 ppb	07:29:10
1	K 766.490 Radial†	2025.5	1916.0	1441.1 µg/L	1441.1 ppb	07:28:50
1	Mg 279.077 IEC†	183.6	176.0	1654.3 µg/L	1654.3 ppb	07:29:10
1	Na 589.592 Radial†	1032.5	553.2	184.64 µg/L	184.64 ppb	07:28:50
1	Sr 421.552†	2441.8	2454.6	26.791 µg/L	26.791 ppb	07:28:50
1	Sc 361.383	1884122.4	1884122.4	100.06 %		07:30:13
1	Y 371.029	1299450.0	1299450.0	100.23 %		07:30:13
1	Ag 328.068†	-691.4	-103.2	0.4171 µg/L	0.4171 ppb	07:30:18
1	As 188.979†	6.6	6.4	14.207 µg/L	14.207 ppb	07:30:39
1	B 249.677†	470.8	195.1	-0.2668 µg/L	-0.2668 ppb	07:30:18
1	Ba 233.527†	3540.4	3568.9	99.987 µg/L	99.987 ppb	07:30:18
1	Be 313.107†	-1367.2	2200.6	1.3181 µg/L	1.3181 ppb	07:30:18
1	Cd 226.502†	-72.6	65.8	-0.0819 µg/L	-0.0819 ppb	07:30:39
1	Co 228.616†	106.6	124.3	5.4617 µg/L	5.4617 ppb	07:30:39
1	Cr 267.716†	1265.5	1298.5	30.154 µg/L	30.154 ppb	07:30:18
1	Cu 324.752†	3334.8	630.5	7.1718 µg/L	7.1718 ppb	07:30:18
1	Mn 257.610†	133335.0	133527.0	485.75 µg/L	485.75 ppb	07:30:18
1	Mo 202.031†	24.2	33.8	4.3844 µg/L	4.3844 ppb	07:30:39
1	Ni 231.604†	611.5	313.6	18.548 µg/L	18.548 ppb	07:30:39
1	P 214.914†	89.0	61.7	127.80 µg/L	127.80 ppb	07:30:39
1	Pb 220.353†	149.6	59.5	16.790 µg/L	16.790 ppb	07:30:39
1	S 181.975 Axial†	43.9	29.8	144.19 µg/L	144.19 ppb	07:30:39
1	Sb 206.836†	29.6	6.7	6.2538 µg/L	6.2538 ppb	07:30:39
1	Se 196.026†	1.5	-13.2	25.793 µg/L	25.793 ppb	07:30:39
1	SiO2†	23514.7	22172.6	5105.8 µg/L	5105.8 ppb	07:30:18
1	Si 251.611†	27352.4	27076.8	2377.9 µg/L	2377.9 ppb	07:30:18
1	Sn 189.927†	-2.4	-1.3	-2.3885 µg/L	-2.3885 ppb	07:30:39
1	Ti 334.940†	205361.8	205151.3	520.94 µg/L	520.94 ppb	07:30:13
1	Tl 190.801†	-28.6	-2.8	5.3003 µg/L	5.3003 ppb	07:30:39
1	U 409.014†	-303.4	-300.9	-30.634 µg/L	-30.634 ppb	07:30:18
1	V 292.402†	1832.2	1872.6	23.310 µg/L	23.310 ppb	07:30:18
1	Zn 213.857†	2164.1	1703.7	44.285 µg/L	44.285 ppb	07:30:39
2	Sc RADIAL	51927.9	51927.9	96.8 %		07:29:16
2	Al 396.153Radial†	12624.7	13061.1	9690.1 µg/L	9690.1 ppb	07:29:16
2	Ca 317.933Radial†	3654.9	3599.4	3481.5 µg/L	3481.5 ppb	07:29:36
2	Fe 238.204 Radial†	2028.3	2082.0	18351 µg/L	18351 ppb	07:29:36
2	K 766.490 Radial†	2008.1	1923.7	1446.9 µg/L	1446.9 ppb	07:29:16
2	Mg 279.077 IEC†	185.7	180.5	1697.1 µg/L	1697.1 ppb	07:29:36
2	Na 589.592 Radial†	994.4	527.0	175.88 µg/L	175.88 ppb	07:29:16
2	Sr 421.552†	2451.1	2495.4	27.235 µg/L	27.235 ppb	07:29:16
2	Sc 361.383	1879129.6	1879129.6	99.793 %		07:30:45
2	Y 371.029	1297282.1	1297282.1	100.06 %		07:30:45
2	Ag 328.068†	-743.6	-157.3	-0.0181 µg/L	-0.0181 ppb	07:30:51
2	As 188.979†	1.1	0.9	2.7707 µg/L	2.7707 ppb	07:31:11
2	B 249.677†	475.7	201.3	-0.0980 µg/L	-0.0980 ppb	07:30:51
2	Ba 233.527†	3610.5	3648.6	102.22 µg/L	102.22 ppb	07:30:51
2	Be 313.107†	-1311.4	2252.9	1.3534 µg/L	1.3534 ppb	07:30:51
2	Cd 226.502†	-78.0	60.1	-0.2753 µg/L	-0.2753 ppb	07:31:11
2	Co 228.616†	108.9	126.8	5.5934 µg/L	5.5934 ppb	07:31:11
2	Cr 267.716†	1302.9	1339.4	31.102 µg/L	31.102 ppb	07:30:51
2	Cu 324.752†	3335.1	639.7	7.2718 µg/L	7.2718 ppb	07:30:51
2	Mn 257.610†	136124.4	136676.2	497.18 µg/L	497.18 ppb	07:30:51
2	Mo 202.031†	27.5	37.2	4.7636 µg/L	4.7636 ppb	07:31:11
2	Ni 231.604†	620.8	324.6	19.190 µg/L	19.190 ppb	07:31:11
2	P 214.914†	91.6	64.6	134.10 µg/L	134.10 ppb	07:31:11
2	Pb 220.353†	140.8	51.0	14.395 µg/L	14.395 ppb	07:31:11

2	S 181.975 Axial†	44.0	30.0	145.32 µg/L	145.32 ppb	07:31:11
2	Sb 206.836†	21.4	-1.4	-2.0335 µg/L	-2.0335 ppb	07:31:11
2	Se 196.026†	6.0	-8.6	33.719 µg/L	33.719 ppb	07:31:11
2	SiO2†	23528.5	22248.9	5123.4 µg/L	5123.4 ppb	07:30:51
2	Si 251.611†	27288.7	27085.6	2378.7 µg/L	2378.7 ppb	07:30:51
2	Sn 189.927†	1.5	2.6	-0.4887 µg/L	-0.4887 ppb	07:31:11
2	Ti 334.940†	205526.8	205861.9	522.75 µg/L	522.75 ppb	07:30:45
2	Tl 190.801†	-28.3	-2.6	5.7008 µg/L	5.7008 ppb	07:31:11
2	U 409.014†	-308.1	-306.5	-31.184 µg/L	-31.184 ppb	07:30:51
2	V 292.402†	1870.2	1915.6	23.827 µg/L	23.827 ppb	07:30:51
2	Zn 213.857†	2177.7	1723.0	44.783 µg/L	44.783 ppb	07:31:11
3	Sc RADIAL	52192.9	52192.9	97.3 %		07:29:42
3	Al 396.153Radial†	12364.9	12727.9	9442.9 µg/L	9442.9 ppb	07:29:42
3	Ca 317.933Radial†	3628.2	3552.8	3436.3 µg/L	3436.3 ppb	07:30:02
3	Fe 238.204 Radial†	2012.2	2054.8	18111 µg/L	18111 ppb	07:30:02
3	K 766.490 Radial†	2061.3	1967.9	1480.1 µg/L	1480.1 ppb	07:29:42
3	Mg 279.077 IEC†	192.4	186.3	1753.1 µg/L	1753.1 ppb	07:30:02
3	Na 589.592 Radial†	1001.7	529.2	176.62 µg/L	176.62 ppb	07:29:42
3	Sr 421.552†	2381.6	2411.0	26.314 µg/L	26.314 ppb	07:29:42
3	Sc 361.383	1903886.5	1903886.5	101.11 %		07:31:18
3	Y 371.029	1312892.3	1312892.3	101.26 %		07:31:18
3	Ag 328.068†	-748.6	-152.6	-0.0069 µg/L	-0.0069 ppb	07:31:23
3	As 188.979†	2.5	2.2	5.4919 µg/L	5.4919 ppb	07:31:44
3	B 249.677†	481.4	200.7	-0.0047 µg/L	-0.0047 ppb	07:31:23
3	Ba 233.527†	3388.4	3381.9	94.746 µg/L	94.746 ppb	07:31:23
3	Be 313.107†	-1568.3	2015.9	1.1988 µg/L	1.1988 ppb	07:31:23
3	Cd 226.502†	-88.0	51.3	-0.5126 µg/L	-0.5126 ppb	07:31:44
3	Co 228.616†	92.3	109.0	4.7031 µg/L	4.7031 ppb	07:31:44
3	Cr 267.716†	1202.3	1222.9	28.397 µg/L	28.397 ppb	07:31:23
3	Cu 324.752†	3245.9	508.0	6.2663 µg/L	6.2663 ppb	07:31:23
3	Mn 257.610†	126530.8	125414.0	456.38 µg/L	456.38 ppb	07:31:23
3	Mo 202.031†	21.5	31.0	4.0688 µg/L	4.0688 ppb	07:31:44
3	Ni 231.604†	587.7	283.7	16.798 µg/L	16.798 ppb	07:31:44
3	P 214.914†	84.9	56.7	116.41 µg/L	116.41 ppb	07:31:44
3	Pb 220.353†	136.8	45.2	12.745 µg/L	12.745 ppb	07:31:44
3	S 181.975 Axial†	40.9	26.5	128.05 µg/L	128.05 ppb	07:31:44
3	Sb 206.836†	23.1	0.0	-0.5472 µg/L	-0.5472 ppb	07:31:44
3	Se 196.026†	9.5	-5.3	38.364 µg/L	38.364 ppb	07:31:44
3	SiO2†	20211.8	18661.9	4297.4 µg/L	4297.4 ppb	07:31:23
3	Si 251.611†	23242.2	22727.8	1996.0 µg/L	1996.0 ppb	07:31:23
3	Sn 189.927†	-0.1	1.0	-1.2571 µg/L	-1.2571 ppb	07:31:44
3	Ti 334.940†	199136.9	196863.9	499.89 µg/L	499.89 ppb	07:31:18
3	Tl 190.801†	-27.1	-1.0	7.6454 µg/L	7.6454 ppb	07:31:44
3	U 409.014†	-319.9	-314.1	-31.858 µg/L	-31.858 ppb	07:31:23
3	V 292.402†	1716.5	1739.3	21.798 µg/L	21.798 ppb	07:31:23
3	Zn 213.857†	1959.0	1478.4	38.294 µg/L	38.294 ppb	07:31:44

Mean Data: 1202015837|950667|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1889046.2	100.32 %	0.695			0.69%
Sc RADIAL	52232.0	97.3 %	0.61			0.62%
Y 371.029	1303208.1	100.52 %	0.652			0.65%
Ag 328.068†	-137.7	0.1307 µg/L	0.24811	0.1307 ppb	0.24811	189.79%
Al 396.153Radial†	12865.1	9544.7 µg/L	129.23	9544.7 ppb	129.23	1.35%
As 188.979†	3.2	7.4897 µg/L	5.97402	7.4897 ppb	5.97402	79.76%
B 249.677†	199.0	-0.1231 µg/L	0.13285	-0.1231 ppb	0.13285	107.90%
Ba 233.527†	3533.1	98.984 µg/L	3.8360	98.984 ppb	3.8360	3.88%
Be 313.107†	2156.4	1.2901 µg/L	0.08101	1.2901 ppb	0.08101	6.28%
Ca 317.933Radial†	3568.1	3451.2 µg/L	26.24	3451.2 ppb	26.24	0.76%
Cd 226.502†	59.1	-0.2900 µg/L	0.21571	-0.2900 ppb	0.21571	74.40%
Co 228.616†	120.0	5.2527 µg/L	0.48052	5.2527 ppb	0.48052	9.15%
Cr 267.716†	1286.9	29.885 µg/L	1.3727	29.885 ppb	1.3727	4.59%
Cu 324.752†	592.7	6.9033 µg/L	0.55393	6.9033 ppb	0.55393	8.02%
Fe 238.204 Radial†	2064.2	18194 µg/L	136.2	18194 ppb	136.2	0.75%
K 766.490 Radial†	1935.9	1456.0 µg/L	21.07	1456.0 ppb	21.07	1.45%
Mg 279.077 IEC†	180.9	1701.5 µg/L	49.52	1701.5 ppb	49.52	2.91%
Mn 257.610†	131872.4	479.77 µg/L	21.051	479.77 ppb	21.051	4.39%
Mo 202.031†	34.0	4.4056 µg/L	0.34790	4.4056 ppb	0.34790	7.90%
Na 589.592 Radial†	536.5	179.05 µg/L	4.859	179.05 ppb	4.859	2.71%

Ni 231.604†	307.3	18.178 µg/L	1.2376	18.178 ppb	1.2376	6.81%
P 214.914†	61.0	126.10 µg/L	8.966	126.10 ppb	8.966	7.11%
Pb 220.353†	51.9	14.644 µg/L	2.0340	14.644 ppb	2.0340	13.89%
S 181.975 Axial†	28.8	139.18 µg/L	9.660	139.18 ppb	9.660	6.94%
Sb 206.836†	1.8	1.2243 µg/L	4.41859	1.2243 ppb	4.41859	360.90%
Se 196.026†	-9.1	32.625 µg/L	6.3565	32.625 ppb	6.3565	19.48%
SiO2†	21027.8	4842.2 µg/L	471.90	4842.2 ppb	471.90	9.75%
Si 251.611†	25630.1	2250.9 µg/L	220.73	2250.9 ppb	220.73	9.81%
Sn 189.927†	0.8	-1.3781 µg/L	0.95567	-1.3781 ppb	0.95567	69.35%
Sr 421.552†	2453.7	26.780 µg/L	0.4604	26.780 ppb	0.4604	1.72%
Ti 334.940†	202625.7	514.53 µg/L	12.708	514.53 ppb	12.708	2.47%
Tl 190.801†	-2.1	6.2155 µg/L	1.25443	6.2155 ppb	1.25443	20.18%
U 409.014†	-307.2	-31.226 µg/L	0.6129	-31.226 ppb	0.6129	1.96%
V 292.402†	1842.5	22.978 µg/L	1.0543	22.978 ppb	1.0543	4.59%
Zn 213.857†	1635.0	42.454 µg/L	3.6114	42.454 ppb	3.6114	8.51%

Sequence No.: 11

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/9/2010 07:31:53

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	53670.4	53670.4	100 %		07:32:32
1	Al 396.153Radial†	6323.3	6337.8	4692.0 µg/L	4692.0 ppb	07:32:32
1	Ca 317.933Radial†	4963.7	4785.3	4628.5 µg/L	4628.5 ppb	07:32:52
1	Fe 238.204 Radial†	558.1	544.1	4806.4 µg/L	4806.4 ppb	07:32:52
1	K 766.490 Radial†	6693.9	6541.0	4919.7 µg/L	4919.7 ppb	07:32:32
1	Mg 279.077 IEC†	523.6	512.1	4874.2 µg/L	4874.2 ppb	07:32:52
1	Na 589.592 Radial†	28864.3	28356.3	9463.5 µg/L	9463.5 ppb	07:32:32
1	Sr 421.552†	44248.6	44199.7	482.40 µg/L	482.40 ppb	07:32:32
1	Sc 361.383	1892357.1	1892357.1	100.50 %		07:33:55
1	Y 371.029	1295688.0	1295688.0	99.936 %		07:33:55
1	Ag 328.068†	58505.7	58804.9	495.75 µg/L	495.75 ppb	07:34:01
1	As 188.979†	241.5	240.1	498.62 µg/L	498.62 ppb	07:34:21
1	B 249.677†	10705.4	10377.2	484.32 µg/L	484.32 ppb	07:34:01
1	Ba 233.527†	17690.1	17633.5	494.72 µg/L	494.72 ppb	07:34:01
1	Be 313.107†	703206.3	703304.0	484.51 µg/L	484.51 ppb	07:33:55
1	Cd 226.502†	16774.0	16829.5	497.87 µg/L	497.87 ppb	07:34:01
1	Co 228.616†	9493.3	9464.2	497.97 µg/L	497.97 ppb	07:34:01
1	Cr 267.716†	21439.1	21367.1	496.27 µg/L	496.27 ppb	07:34:01
1	Cu 324.752†	69884.9	66837.8	493.92 µg/L	493.92 ppb	07:34:01
1	Mn 257.610†	133714.9	133325.1	483.12 µg/L	483.12 ppb	07:34:01
1	Mo 202.031†	4541.1	4528.4	494.78 µg/L	494.78 ppb	07:34:21
1	Ni 231.604†	8868.5	8527.2	497.56 µg/L	497.56 ppb	07:34:01
1	P 214.914†	1140.4	1107.5	2469.3 µg/L	2469.3 ppb	07:34:21
1	Pb 220.353†	1871.1	1771.8	504.53 µg/L	504.53 ppb	07:34:21
1	S 181.975 Axial†	222.7	207.6	1004.6 µg/L	1004.6 ppb	07:34:21
1	Sb 206.836†	524.5	499.0	512.49 µg/L	512.49 ppb	07:34:21
1	Se 196.026†	314.1	297.8	488.03 µg/L	488.03 ppb	07:34:21
1	SiO2†	24442.1	22993.2	5294.8 µg/L	5294.8 ppb	07:34:01
1	Si 251.611†	28567.9	28167.4	2473.7 µg/L	2473.7 ppb	07:34:01
1	Sn 189.927†	1054.4	1050.3	513.21 µg/L	513.21 ppb	07:34:21
1	Ti 334.940†	192845.1	191803.1	486.81 µg/L	486.81 ppb	07:33:55
1	Tl 190.801†	311.9	336.1	506.73 µg/L	506.73 ppb	07:34:21
1	U 409.014†	5237.3	5213.8	482.58 µg/L	482.58 ppb	07:34:01
1	V 292.402†	43970.0	43794.6	499.68 µg/L	499.68 ppb	07:34:01
1	Zn 213.857†	19237.7	18683.6	493.60 µg/L	493.60 ppb	07:34:01
2	Sc RADIAL	53409.8	53409.8	99.5 %		07:32:57
2	Al 396.153Radial†	6271.8	6316.9	4676.5 µg/L	4676.5 ppb	07:32:57
2	Ca 317.933Radial†	4977.5	4823.3	4665.3 µg/L	4665.3 ppb	07:33:18
2	Fe 238.204 Radial†	560.0	548.8	4847.6 µg/L	4847.6 ppb	07:33:18
2	K 766.490 Radial†	6577.2	6456.4	4856.0 µg/L	4856.0 ppb	07:32:57
2	Mg 279.077 IEC†	517.5	508.5	4839.9 µg/L	4839.9 ppb	07:33:18
2	Na 589.592 Radial†	28779.7	28412.1	9482.1 µg/L	9482.1 ppb	07:32:57
2	Sr 421.552†	43800.7	43965.6	479.85 µg/L	479.85 ppb	07:32:57
2	Sc 361.383	1897314.6	1897314.6	100.76 %		07:34:28
2	Y 371.029	1299004.4	1299004.4	100.19 %		07:34:28
2	Ag 328.068†	57874.3	58026.1	489.20 µg/L	489.20 ppb	07:34:33
2	As 188.979†	241.7	239.7	497.80 µg/L	497.80 ppb	07:34:54
2	B 249.677†	10558.9	10204.0	476.18 µg/L	476.18 ppb	07:34:33
2	Ba 233.527†	17492.6	17391.4	487.93 µg/L	487.93 ppb	07:34:33
2	Be 313.107†	707768.4	706003.3	486.37 µg/L	486.37 ppb	07:34:28
2	Cd 226.502†	16501.7	16515.7	488.58 µg/L	488.58 ppb	07:34:33
2	Co 228.616†	9335.1	9282.5	488.39 µg/L	488.39 ppb	07:34:33
2	Cr 267.716†	21191.3	21065.4	489.27 µg/L	489.27 ppb	07:34:33
2	Cu 324.752†	69365.0	66140.1	488.78 µg/L	488.78 ppb	07:34:33
2	Mn 257.610†	132024.3	131299.6	475.80 µg/L	475.80 ppb	07:34:33
2	Mo 202.031†	4533.7	4509.2	492.69 µg/L	492.69 ppb	07:34:54
2	Ni 231.604†	8813.1	8449.2	493.01 µg/L	493.01 ppb	07:34:33
2	P 214.914†	1128.5	1092.7	2436.2 µg/L	2436.2 ppb	07:34:54
2	Pb 220.353†	1861.4	1757.3	500.40 µg/L	500.40 ppb	07:34:54

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

Autosampler Location: 8
 Date Collected: 2/9/2010 07:35:36
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52080.4	52080.4	97.1 %		07:36:09
1	Al 396.153Radial†	-3.9	12.2	9.0273 µg/L	9.0273 ppb	07:36:09
1	Ca 317.933Radial†	174.7	2.9	2.7902 µg/L	2.7902 ppb	07:36:29
1	Fe 238.204 Radial†	17.7	4.4	38.563 µg/L	38.563 ppb	07:36:29
1	K 766.490 Radial†	166.9	20.8	15.609 µg/L	15.609 ppb	07:36:09
1	Mg 279.077 IEC†	10.5	-0.6	-6.0264 µg/L	-6.0264 ppb	07:36:29
1	Na 589.592 Radial†	563.2	79.7	26.611 µg/L	26.611 ppb	07:36:09
1	Sr 421.552†	61.6	26.1	0.2851 µg/L	0.2851 ppb	07:36:09
1	Sc 361.383	1859373.2	1859373.2	98.744 %		07:37:31
1	Y 371.029	1277543.5	1277543.5	98.537 %		07:37:31
1	Ag 328.068†	-487.8	93.8	0.7867 µg/L	0.7867 ppb	07:37:37
1	As 188.979†	-0.0	-0.3	-0.5439 µg/L	-0.5439 ppb	07:37:57
1	B 249.677†	322.5	51.2	2.3776 µg/L	2.3776 ppb	07:37:57
1	Ba 233.527†	-29.0	1.3	0.0362 µg/L	0.0362 ppb	07:37:57
1	Be 313.107†	-3684.0	-163.9	-0.1130 µg/L	-0.1130 ppb	07:37:37
1	Cd 226.502†	-134.5	2.2	0.0601 µg/L	0.0601 ppb	07:37:57
1	Co 228.616†	-9.1	8.5	0.4490 µg/L	0.4490 ppb	07:37:57
1	Cr 267.716†	-37.6	-4.3	-0.1000 µg/L	-0.1000 ppb	07:37:57
1	Cu 324.752†	2901.4	235.9	1.7466 µg/L	1.7466 ppb	07:37:37
1	Mn 257.610†	-197.9	69.5	0.2570 µg/L	0.2570 ppb	07:37:57
1	Mo 202.031†	0.4	10.1	1.1051 µg/L	1.1051 ppb	07:37:57
1	Ni 231.604†	304.8	11.1	0.6481 µg/L	0.6481 ppb	07:37:57
1	P 214.914†	21.9	-5.1	-11.806 µg/L	-11.806 ppb	07:37:57
1	Pb 220.353†	99.0	10.2	2.9114 µg/L	2.9114 ppb	07:37:57
1	S 181.975 Axial†	14.1	0.2	1.0728 µg/L	1.0728 ppb	07:37:57
1	Sb 206.836†	21.5	-1.1	-1.1437 µg/L	-1.1437 ppb	07:37:57
1	Se 196.026†	18.3	3.8	6.2130 µg/L	6.2130 ppb	07:37:57
1	SiO2†	1475.1	165.6	38.126 µg/L	38.126 ppb	07:37:37
1	Si 251.611†	370.7	115.8	10.172 µg/L	10.172 ppb	07:37:57
1	Sn 189.927†	-1.7	-0.6	-0.3161 µg/L	-0.3161 ppb	07:37:57
1	Ti 334.940†	174.3	86.0	0.2189 µg/L	0.2189 ppb	07:37:37
1	Tl 190.801†	-25.6	-0.1	-0.1918 µg/L	-0.1918 ppb	07:37:57
1	U 409.014†	-80.6	-79.3	-7.3627 µg/L	-7.3627 ppb	07:37:37
1	V 292.402†	-47.5	-6.6	-0.0689 µg/L	-0.0689 ppb	07:37:37
1	Zn 213.857†	483.1	30.1	0.7926 µg/L	0.7926 ppb	07:37:57
2	Sc RADIAL	52075.0	52075.0	97.1 %		07:36:35
2	Al 396.153Radial†	-19.6	-4.0	-3.0014 µg/L	-3.0014 ppb	07:36:35
2	Ca 317.933Radial†	164.6	-7.6	-7.3115 µg/L	-7.3115 ppb	07:36:55
2	Fe 238.204 Radial†	15.5	2.2	19.449 µg/L	19.449 ppb	07:36:55
2	K 766.490 Radial†	183.8	38.2	28.743 µg/L	28.743 ppb	07:36:35
2	Mg 279.077 IEC†	11.2	0.1	0.9255 µg/L	0.9255 ppb	07:36:55
2	Na 589.592 Radial†	435.2	-52.1	-17.383 µg/L	-17.383 ppb	07:36:35
2	Sr 421.552†	39.6	3.4	0.0373 µg/L	0.0373 ppb	07:36:35
2	Sc 361.383	1869582.0	1869582.0	99.286 %		07:38:03
2	Y 371.029	1283737.3	1283737.3	99.015 %		07:38:03
2	Ag 328.068†	-552.0	31.9	0.2677 µg/L	0.2677 ppb	07:38:09
2	As 188.979†	-0.1	-0.3	-0.5804 µg/L	-0.5804 ppb	07:38:29
2	B 249.677†	312.8	39.6	1.8467 µg/L	1.8467 ppb	07:38:29
2	Ba 233.527†	-24.9	5.6	0.1557 µg/L	0.1557 ppb	07:38:29
2	Be 313.107†	-3676.8	-136.2	-0.0940 µg/L	-0.0940 ppb	07:38:09
2	Cd 226.502†	-129.0	8.4	0.2471 µg/L	0.2471 ppb	07:38:29
2	Co 228.616†	-9.4	8.2	0.4334 µg/L	0.4334 ppb	07:38:29
2	Cr 267.716†	-28.8	4.7	0.1102 µg/L	0.1102 ppb	07:38:29
2	Cu 324.752†	2896.4	214.9	1.5885 µg/L	1.5885 ppb	07:38:09
2	Mn 257.610†	-189.2	79.4	0.2899 µg/L	0.2899 ppb	07:38:29
2	Mo 202.031†	-3.9	5.8	0.6302 µg/L	0.6302 ppb	07:38:29
2	Ni 231.604†	312.4	17.1	0.9999 µg/L	0.9999 ppb	07:38:29
2	P 214.914†	21.6	-5.5	-12.700 µg/L	-12.700 ppb	07:38:29
2	Pb 220.353†	97.1	7.8	2.2311 µg/L	2.2311 ppb	07:38:29

2	S 181.975 Axial†	14.5	0.6	2.7558 µg/L	2.7558 ppb	07:38:29
2	Sb 206.836†	23.4	0.7	0.7554 µg/L	0.7554 ppb	07:38:29
2	Se 196.026†	17.4	2.8	4.5408 µg/L	4.5408 ppb	07:38:29
2	SiO2†	1501.3	183.8	42.324 µg/L	42.324 ppb	07:38:09
2	Si 251.611†	383.4	126.5	11.110 µg/L	11.110 ppb	07:38:29
2	Sn 189.927†	-1.2	-0.1	-0.0347 µg/L	-0.0347 ppb	07:38:29
2	Ti 334.940†	228.9	140.0	0.3554 µg/L	0.3554 ppb	07:38:09
2	Tl 190.801†	-19.7	5.9	8.8024 µg/L	8.8024 ppb	07:38:29
2	U 409.014†	-125.5	-124.1	-11.510 µg/L	-11.510 ppb	07:38:09
2	V 292.402†	-46.5	-5.3	-0.0647 µg/L	-0.0647 ppb	07:38:09
2	Zn 213.857†	472.4	16.6	0.4349 µg/L	0.4349 ppb	07:38:29
3	Sc RADIAL	52112.2	52112.2	97.1 %		07:37:01
3	Al 396.153Radial†	-41.7	-26.7	-19.847 µg/L	-19.847 ppb	07:37:01
3	Ca 317.933Radial†	177.5	5.6	5.4634 µg/L	5.4634 ppb	07:37:21
3	Fe 238.204 Radial†	17.2	3.9	34.577 µg/L	34.577 ppb	07:37:21
3	K 766.490 Radial†	134.8	-12.4	-9.3116 µg/L	-9.3116 ppb	07:37:01
3	Mg 279.077 IEC†	10.9	-0.2	-1.8737 µg/L	-1.8737 ppb	07:37:21
3	Na 589.592 Radial†	524.6	39.6	13.228 µg/L	13.228 ppb	07:37:01
3	Sr 421.552†	18.2	-18.7	-0.2036 µg/L	-0.2036 ppb	07:37:01
3	Sc 361.383	1869627.0	1869627.0	99.289 %		07:38:35
3	Y 371.029	1284579.4	1284579.4	99.080 %		07:38:35
3	Ag 328.068†	-527.6	56.4	0.4745 µg/L	0.4745 ppb	07:38:41
3	As 188.979†	-3.2	-3.4	-7.1454 µg/L	-7.1454 ppb	07:39:01
3	B 249.677†	314.7	41.6	1.9291 µg/L	1.9291 ppb	07:39:01
3	Ba 233.527†	-23.3	7.2	0.2013 µg/L	0.2013 ppb	07:39:01
3	Be 313.107†	-3650.8	-110.0	-0.0759 µg/L	-0.0759 ppb	07:38:41
3	Cd 226.502†	-137.1	0.2	0.0018 µg/L	0.0018 ppb	07:39:01
3	Co 228.616†	-9.0	8.7	0.4578 µg/L	0.4578 ppb	07:39:01
3	Cr 267.716†	-32.2	1.4	0.0321 µg/L	0.0321 ppb	07:39:01
3	Cu 324.752†	2862.3	180.5	1.3371 µg/L	1.3371 ppb	07:38:41
3	Mn 257.610†	-192.2	76.4	0.2811 µg/L	0.2811 ppb	07:39:01
3	Mo 202.031†	-8.5	1.1	0.1215 µg/L	0.1215 ppb	07:39:01
3	Ni 231.604†	286.2	-9.3	-0.5416 µg/L	-0.5416 ppb	07:39:01
3	P 214.914†	34.5	7.5	16.911 µg/L	16.911 ppb	07:39:01
3	Pb 220.353†	103.3	14.0	3.9915 µg/L	3.9915 ppb	07:39:01
3	S 181.975 Axial†	12.7	-1.2	-5.9687 µg/L	-5.9687 ppb	07:39:01
3	Sb 206.836†	19.1	-3.7	-3.7372 µg/L	-3.7372 ppb	07:39:01
3	Se 196.026†	19.4	4.8	7.8817 µg/L	7.8817 ppb	07:39:01
3	SiO2†	1449.1	131.1	30.194 µg/L	30.194 ppb	07:38:41
3	Si 251.611†	388.5	131.7	11.563 µg/L	11.563 ppb	07:39:01
3	Sn 189.927†	1.7	2.8	1.3857 µg/L	1.3857 ppb	07:39:01
3	Ti 334.940†	158.0	68.6	0.1745 µg/L	0.1745 ppb	07:38:41
3	Tl 190.801†	-23.0	2.6	3.9195 µg/L	3.9195 ppb	07:39:01
3	U 409.014†	-141.4	-140.1	-12.998 µg/L	-12.998 ppb	07:38:41
3	V 292.402†	-35.9	5.3	0.0517 µg/L	0.0517 ppb	07:38:41
3	Zn 213.857†	473.6	17.8	0.4733 µg/L	0.4733 ppb	07:39:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1866194.1	99.106 %	0.3137			0.32%
Sc RADIAL	52089.2	97.1 %	0.04			0.04%
Y 371.029	1281953.4	98.877 %	0.2964			0.30%
Ag 328.068†	60.7	0.5096 µg/L	0.26126	0.5096 ppb	0.26126	51.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.2	-4.6069 µg/L	14.50379	-4.6069 ppb	14.50379	314.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.3	-2.7565 µg/L	3.80090	-2.7565 ppb	3.80090	137.89%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	44.1	2.0511 µg/L	0.28570	2.0511 ppb	0.28570	13.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.7	0.1310 µg/L	0.08526	0.1310 ppb	0.08526	65.06%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-136.7	-0.0943 µg/L	0.01858	-0.0943 ppb	0.01858	19.70%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.3	0.3140 µg/L	6.73778	0.3140 ppb	6.73778	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.6	0.1030 µg/L	0.12812	0.1030 ppb	0.12812	124.37%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.5	0.4467 µg/L	0.01235	0.4467 ppb	0.01235	2.76%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.6	0.0141 µg/L	0.10625	0.0141 ppb	0.10625	754.78%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	210.5	1.5574 µg/L	0.20655	1.5574 ppb	0.20655	13.26%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	3.5	30.863 µg/L	10.0837	30.863 ppb	10.0837	32.67%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	15.5	11.680 µg/L	19.3293	11.680 ppb	19.3293	165.49%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.2	-2.3248 µg/L	3.49786	-2.3248 ppb	3.49786	150.46%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	75.1	0.2760 µg/L	0.01701	0.2760 ppb	0.01701	6.16%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.7	0.6189 µg/L	0.49187	0.6189 ppb	0.49187	79.47%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	22.4	7.4855 µg/L	22.55190	7.4855 ppb	22.55190	301.27%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	6.3	0.3688 µg/L	0.80783	0.3688 ppb	0.80783	219.02%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.0	-2.5316 µg/L	16.84388	-2.5316 ppb	16.84388	665.34%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.7	3.0447 µg/L	0.88775	3.0447 ppb	0.88775	29.16%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.1	-0.7134 µg/L	4.62844	-0.7134 ppb	4.62844	648.83%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.4	-1.3752 µg/L	2.25521	-1.3752 ppb	2.25521	163.99%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.8	6.2118 µg/L	1.67046	6.2118 ppb	1.67046	26.89%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	160.2	36.882 µg/L	6.1601	36.882 ppb	6.1601	16.70%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	124.7	10.948 µg/L	0.7096	10.948 ppb	0.7096	6.48%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.7	0.3449 µg/L	0.91223	0.3449 ppb	0.91223	264.46%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	3.6	0.0396 µg/L	0.24438	0.0396 ppb	0.24438	617.55%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	98.2	0.2496 µg/L	0.09428	0.2496 ppb	0.09428	37.78%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.8	4.1767 µg/L	4.50264	4.1767 ppb	4.50264	107.80%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-114.5	-10.624 µg/L	2.9204	-10.624 ppb	2.9204	27.49%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-2.2	-0.0273 µg/L	0.06844	-0.0273 ppb	0.06844	251.05%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	21.5	0.5669 µg/L	0.19636	0.5669 ppb	0.19636	34.64%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: 244628002|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 308

Date Collected: 2/9/2010 07:39:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628002|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52428.5	52428.5	97.7 %		07:39:49
1	Al 396.153Radial†	29199.6	29899.6	22183 µg/L	22183 ppb	07:39:49
1	Ca 317.933Radial†	7456.0	7453.5	7209.3 µg/L	7209.3 ppb	07:39:49
1	Fe 238.204 Radial†	6162.3	6292.9	55465 µg/L	55465 ppb	07:40:10
1	K 766.490 Radial†	5725.6	5708.6	4293.6 µg/L	4293.6 ppb	07:39:49
1	Mg 279.077 IEC†	438.5	437.4	4101.0 µg/L	4101.0 ppb	07:40:10
1	Na 589.592 Radial†	1806.7	1348.5	450.04 µg/L	450.04 ppb	07:39:49
1	Sr 421.552†	4576.7	4646.5	50.713 µg/L	50.713 ppb	07:39:49
1	Sc 361.383	1864898.6	1864898.6	99.038 %		07:41:14
1	Y 371.029	1326930.1	1326930.1	102.35 %		07:41:14
1	Ag 328.068†	-1167.0	-590.5	-1.1624 µg/L	-1.1624 ppb	07:41:19
1	As 188.979†	2.6	2.4	7.9002 µg/L	7.9002 ppb	07:41:40
1	B 249.677†	721.8	453.4	-7.6248 µg/L	-7.6248 ppb	07:41:19
1	Ba 233.527†	9843.4	9969.7	279.28 µg/L	279.28 ppb	07:41:19
1	Be 313.107†	4818.9	8432.7	5.1201 µg/L	5.1201 ppb	07:41:19
1	Cd 226.502†	50.4	189.2	-0.6344 µg/L	-0.6344 ppb	07:41:40
1	Co 228.616†	238.3	258.4	9.8296 µg/L	9.8296 ppb	07:41:40
1	Cr 267.716†	2138.9	2193.4	50.940 µg/L	50.940 ppb	07:41:19
1	Cu 324.752†	5869.2	3224.0	31.502 µg/L	31.502 ppb	07:41:19
1	Mn 257.610†	550050.1	555665.3	2018.9 µg/L	2018.9 ppb	07:41:14
1	Mo 202.031†	55.6	65.8	9.2975 µg/L	9.2975 ppb	07:41:40
1	Ni 231.604†	879.1	590.1	35.174 µg/L	35.174 ppb	07:41:40
1	P 214.914†	285.5	261.0	551.75 µg/L	551.75 ppb	07:41:40
1	Pb 220.353†	298.5	211.4	59.360 µg/L	59.360 ppb	07:41:40
1	S 181.975 Axial†	79.5	66.2	320.30 µg/L	320.30 ppb	07:41:40
1	Sb 206.836†	28.5	5.9	4.9927 µg/L	4.9927 ppb	07:41:40
1	Se 196.026†	-13.7	-28.5	99.938 µg/L	99.938 ppb	07:41:40
1	SiO2†	80158.7	79609.3	18332 µg/L	18332 ppb	07:41:19
1	Si 251.611†	96570.7	97249.5	8540.5 µg/L	8540.5 ppb	07:41:19
1	Sn 189.927†	-7.6	-6.5	-8.6467 µg/L	-8.6467 ppb	07:41:40
1	Ti 334.940†	707802.5	714590.2	1814.6 µg/L	1814.6 ppb	07:41:14
1	Tl 190.801†	-44.4	-19.0	4.5124 µg/L	4.5124 ppb	07:41:40
1	U 409.014†	-947.3	-954.2	-96.639 µg/L	-96.639 ppb	07:41:19
1	V 292.402†	3764.7	3842.9	49.926 µg/L	49.926 ppb	07:41:19
1	Zn 213.857†	11642.5	11296.5	297.49 µg/L	297.49 ppb	07:41:19
2	Sc RADIAL	52604.4	52604.4	98.0 %		07:40:15
2	Al 396.153Radial†	29761.7	30373.2	22534 µg/L	22534 ppb	07:40:15
2	Ca 317.933Radial†	7600.9	7575.7	7327.5 µg/L	7327.5 ppb	07:40:15
2	Fe 238.204 Radial†	6145.8	6254.9	55131 µg/L	55131 ppb	07:40:36
2	K 766.490 Radial†	5825.5	5790.8	4355.4 µg/L	4355.4 ppb	07:40:15
2	Mg 279.077 IEC†	437.8	435.2	4080.3 µg/L	4080.3 ppb	07:40:36
2	Na 589.592 Radial†	1842.9	1379.2	460.30 µg/L	460.30 ppb	07:40:15
2	Sr 421.552†	4643.0	4698.5	51.281 µg/L	51.281 ppb	07:40:15
2	Sc 361.383	1891446.8	1891446.8	100.45 %		07:41:47
2	Y 371.029	1345588.9	1345588.9	103.79 %		07:41:47
2	Ag 328.068†	-1154.8	-561.9	-0.9470 µg/L	-0.9470 ppb	07:41:52
2	As 188.979†	2.1	1.9	6.6911 µg/L	6.6911 ppb	07:42:13
2	B 249.677†	683.5	405.0	-9.7142 µg/L	-9.7142 ppb	07:41:52
2	Ba 233.527†	9942.8	9929.1	278.15 µg/L	278.15 ppb	07:41:52
2	Be 313.107†	4781.7	8327.4	5.0526 µg/L	5.0526 ppb	07:41:52
2	Cd 226.502†	53.3	191.4	-0.5331 µg/L	-0.5331 ppb	07:42:13
2	Co 228.616†	243.6	260.2	9.9555 µg/L	9.9555 ppb	07:42:13
2	Cr 267.716†	2212.7	2236.7	51.943 µg/L	51.943 ppb	07:41:52
2	Cu 324.752†	5954.1	3225.2	31.465 µg/L	31.465 ppb	07:41:52
2	Mn 257.610†	554921.8	552719.7	2008.2 µg/L	2008.2 ppb	07:41:47
2	Mo 202.031†	54.4	63.9	9.0699 µg/L	9.0699 ppb	07:42:13
2	Ni 231.604†	893.4	591.9	35.276 µg/L	35.276 ppb	07:42:13
2	P 214.914†	286.2	257.7	544.73 µg/L	544.73 ppb	07:42:13
2	Pb 220.353†	295.9	204.5	57.434 µg/L	57.434 ppb	07:42:13

2	S 181.975 Axial†	79.1	64.7	312.97 µg/L	312.97 ppb	07:42:13
2	Sb 206.836†	25.6	2.6	1.5230 µg/L	1.5230 ppb	07:42:13
2	Se 196.026†	-26.3	-40.9	79.020 µg/L	79.020 ppb	07:42:13
2	SiO2†	80484.2	78797.4	18145 µg/L	18145 ppb	07:41:52
2	Si 251.611†	96987.7	96296.0	8456.8 µg/L	8456.8 ppb	07:41:52
2	Sn 189.927†	-4.5	-3.4	-7.0763 µg/L	-7.0763 ppb	07:42:13
2	Ti 334.940†	712573.3	709308.5	1801.2 µg/L	1801.2 ppb	07:41:47
2	Tl 190.801†	-41.8	-15.8	9.1051 µg/L	9.1051 ppb	07:42:13
2	U 409.014†	-1010.8	-1004.0	-101.22 µg/L	-101.22 ppb	07:41:52
2	V 292.402†	3776.3	3801.0	49.411 µg/L	49.411 ppb	07:41:52
2	Zn 213.857†	11705.2	11193.9	294.78 µg/L	294.78 ppb	07:41:52
3	Sc RADIAL	53161.7	53161.7	99.1 %		07:40:41
3	Al 396.153Radial†	29545.5	29836.6	22136 µg/L	22136 ppb	07:40:41
3	Ca 317.933Radial†	7533.0	7426.0	7182.7 µg/L	7182.7 ppb	07:40:41
3	Fe 238.204 Radial†	6151.4	6194.8	54601 µg/L	54601 ppb	07:41:02
3	K 766.490 Radial†	5748.1	5650.4	4249.8 µg/L	4249.8 ppb	07:40:41
3	Mg 279.077 IEC†	434.0	426.6	3999.6 µg/L	3999.6 ppb	07:41:02
3	Na 589.592 Radial†	1924.5	1441.9	481.20 µg/L	481.20 ppb	07:40:41
3	Sr 421.552†	4581.1	4586.4	50.056 µg/L	50.056 ppb	07:40:41
3	Sc 361.383	1865741.2	1865741.2	99.082 %		07:42:19
3	Y 371.029	1325835.2	1325835.2	102.26 %		07:42:19
3	Ag 328.068†	-1162.2	-585.1	-1.1804 µg/L	-1.1804 ppb	07:42:25
3	As 188.979†	3.6	3.4	9.8920 µg/L	9.8920 ppb	07:42:46
3	B 249.677†	660.6	391.3	-10.085 µg/L	-10.085 ppb	07:42:25
3	Ba 233.527†	9646.4	9766.4	273.59 µg/L	273.59 ppb	07:42:25
3	Be 313.107†	4542.8	8151.8	4.9446 µg/L	4.9446 ppb	07:42:25
3	Cd 226.502†	36.6	175.2	-0.9527 µg/L	-0.9527 ppb	07:42:46
3	Co 228.616†	215.7	235.5	8.7205 µg/L	8.7205 ppb	07:42:46
3	Cr 267.716†	2085.0	2138.0	49.653 µg/L	49.653 ppb	07:42:25
3	Cu 324.752†	5812.2	3163.8	30.938 µg/L	30.938 ppb	07:42:25
3	Mn 257.610†	538183.7	543438.0	1974.5 µg/L	1974.5 ppb	07:42:19
3	Mo 202.031†	54.5	64.6	9.1331 µg/L	9.1331 ppb	07:42:46
3	Ni 231.604†	847.7	558.0	33.290 µg/L	33.290 ppb	07:42:46
3	P 214.914†	270.8	246.0	518.54 µg/L	518.54 ppb	07:42:46
3	Pb 220.353†	284.4	197.0	55.275 µg/L	55.275 ppb	07:42:46
3	S 181.975 Axial†	74.3	61.0	295.04 µg/L	295.04 ppb	07:42:46
3	Sb 206.836†	26.1	3.5	2.4631 µg/L	2.4631 ppb	07:42:46
3	Se 196.026†	-13.1	-28.0	98.535 µg/L	98.535 ppb	07:42:46
3	SiO2†	75469.7	74840.4	17234 µg/L	17234 ppb	07:42:25
3	Si 251.611†	90665.0	91245.1	8013.2 µg/L	8013.2 ppb	07:42:25
3	Sn 189.927†	-10.9	-9.9	-10.230 µg/L	-10.230 ppb	07:42:46
3	Ti 334.940†	689616.3	695912.7	1767.2 µg/L	1767.2 ppb	07:42:19
3	Tl 190.801†	-40.9	-15.5	9.0902 µg/L	9.0902 ppb	07:42:46
3	U 409.014†	-880.7	-886.6	-90.250 µg/L	-90.250 ppb	07:42:25
3	V 292.402†	3654.2	3729.6	48.551 µg/L	48.551 ppb	07:42:25
3	Zn 213.857†	11466.5	11113.6	292.68 µg/L	292.68 ppb	07:42:25

Mean Data: 244628002/950667/1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1874028.9	99.522 %	0.8014			0.81%
Sc RADIAL	52731.5	98.3 %	0.71			0.73%
Y 371.029	1332784.7	102.80 %	0.856			0.83%
Ag 328.068†	-579.2	-1.0966 µg/L	0.12987	-1.0966 ppb	0.12987	11.84%
Al 396.153Radial†	30036.5	22284 µg/L	217.6	22284 ppb	217.6	0.98%
As 188.979†	2.6	8.1611 µg/L	1.61632	8.1611 ppb	1.61632	19.81%
B 249.677†	416.6	-9.1414 µg/L	1.32645	-9.1414 ppb	1.32645	14.51%
Ba 233.527†	9888.4	277.01 µg/L	3.015	277.01 ppb	3.015	1.09%
Be 313.107†	8304.0	5.0391 µg/L	0.08851	5.0391 ppb	0.08851	1.76%
Ca 317.933Radial†	7485.1	7239.8 µg/L	77.10	7239.8 ppb	77.10	1.06%
Cd 226.502†	185.3	-0.7067 µg/L	0.21894	-0.7067 ppb	0.21894	30.98%
Co 228.616†	251.4	9.5019 µg/L	0.67960	9.5019 ppb	0.67960	7.15%
Cr 267.716†	2189.4	50.846 µg/L	1.1478	50.846 ppb	1.1478	2.26%
Cu 324.752†	3204.3	31.301 µg/L	0.3157	31.301 ppb	0.3157	1.01%
Fe 238.204 Radial†	6247.5	55066 µg/L	435.7	55066 ppb	435.7	0.79%
K 766.490 Radial†	5716.6	4299.6 µg/L	53.07	4299.6 ppb	53.07	1.23%
Mg 279.077 IEC†	433.0	4060.3 µg/L	53.60	4060.3 ppb	53.60	1.32%
Mn 257.610†	550607.7	2000.5 µg/L	23.16	2000.5 ppb	23.16	1.16%
Mo 202.031†	64.8	9.1669 µg/L	0.11749	9.1669 ppb	0.11749	1.28%
Na 589.592 Radial†	1389.9	463.85 µg/L	15.881	463.85 ppb	15.881	3.42%

Ni 231.604†	580.0	34.580 µg/L	1.1178	34.580 ppb	1.1178	3.23%
P 214.914†	254.9	538.34 µg/L	17.502	538.34 ppb	17.502	3.25%
Pb 220.353†	204.3	57.356 µg/L	2.0439	57.356 ppb	2.0439	3.56%
S 181.975 Axial†	64.0	309.44 µg/L	12.995	309.44 ppb	12.995	4.20%
Sb 206.836†	4.0	2.9930 µg/L	1.79452	2.9930 ppb	1.79452	59.96%
Se 196.026†	-32.4	92.498 µg/L	11.6931	92.498 ppb	11.6931	12.64%
SiO2†	77749.0	17904 µg/L	587.5	17904 ppb	587.5	3.28%
Si 251.611†	94930.2	8336.9 µg/L	283.38	8336.9 ppb	283.38	3.40%
Sn 189.927†	-6.6	-8.6511 µg/L	1.57707	-8.6511 ppb	1.57707	18.23%
Sr 421.552†	4643.8	50.683 µg/L	0.6127	50.683 ppb	0.6127	1.21%
Ti 334.940†	706603.8	1794.3 µg/L	24.45	1794.3 ppb	24.45	1.36%
Tl 190.801†	-16.8	7.5692 µg/L	2.64733	7.5692 ppb	2.64733	34.97%
U 409.014†	-948.2	-96.037 µg/L	5.5113	-96.037 ppb	5.5113	5.74%
V 292.402†	3791.2	49.296 µg/L	0.6949	49.296 ppb	0.6949	1.41%
Zn 213.857†	11201.3	294.99 µg/L	2.412	294.99 ppb	2.412	0.82%

Sequence No.: 14

Sample ID: 244628003|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 309

Date Collected: 2/9/2010 07:42:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628003|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54487.8	54487.8	102 %		07:43:28
1	Al 396.153Radial†	57885.2	57018.3	42302 µg/L	42302 ppb	07:43:28
1	Ca 317.933Radial†	6937.5	6654.5	6436.5 µg/L	6436.5 ppb	07:43:48
1	Fe 238.204 Radial†	11095.1	10912.0	96179 µg/L	96179 ppb	07:43:48
1	K 766.490 Radial†	7546.1	7279.8	5475.3 µg/L	5475.3 ppb	07:43:28
1	Mg 279.077 IEC†	623.4	602.5	5628.3 µg/L	5628.3 ppb	07:43:48
1	Na 589.592 Radial†	4450.2	3881.8	1295.5 µg/L	1295.5 ppb	07:43:28
1	Sr 421.552†	5076.9	4962.1	54.157 µg/L	54.157 ppb	07:43:28
1	Sc 361.383	1910097.6	1910097.6	101.44 %		07:44:52
1	Y 371.029	1372218.1	1372218.1	105.84 %		07:44:52
1	Ag 328.068†	-1653.8	-1042.6	-2.0346 µg/L	-2.0346 ppb	07:44:58
1	As 188.979†	6.1	5.8	17.171 µg/L	17.171 ppb	07:45:19
1	B 249.677†	783.6	497.1	-25.926 µg/L	-25.926 ppb	07:44:58
1	Ba 233.527†	11753.9	11617.9	325.54 µg/L	325.54 ppb	07:44:58
1	Be 313.107†	6458.4	9933.8	6.0406 µg/L	6.0406 ppb	07:44:58
1	Cd 226.502†	142.9	279.2	-2.2913 µg/L	-2.2913 ppb	07:45:19
1	Co 228.616†	729.3	736.7	34.420 µg/L	34.420 ppb	07:45:19
1	Cr 267.716†	26661.7	26317.5	610.93 µg/L	610.93 ppb	07:44:58
1	Cu 324.752†	5792.6	3008.2	35.569 µg/L	35.569 ppb	07:44:58
1	Mn 257.610†	685649.4	676199.9	2460.6 µg/L	2460.6 ppb	07:44:52
1	Mo 202.031†	225.3	231.8	28.969 µg/L	28.969 ppb	07:45:19
1	Ni 231.604†	5801.1	5421.3	317.87 µg/L	317.87 ppb	07:44:58
1	P 214.914†	215.2	184.9	351.94 µg/L	351.94 ppb	07:45:19
1	Pb 220.353†	303.6	209.3	58.418 µg/L	58.418 ppb	07:45:19
1	S 181.975 Axial†	51.6	36.8	178.26 µg/L	178.26 ppb	07:45:19
1	Sb 206.836†	38.9	15.4	8.7187 µg/L	8.7187 ppb	07:45:19
1	Se 196.026†	-35.4	-49.6	176.02 µg/L	176.02 ppb	07:45:19
1	SiO2†	88006.2	85430.4	19672 µg/L	19672 ppb	07:44:58
1	Si 251.611†	106332.6	104565.7	9183.0 µg/L	9183.0 ppb	07:44:58
1	Sn 189.927†	4.8	5.8	-6.7617 µg/L	-6.7617 ppb	07:45:19
1	Ti 334.940†	844461.3	832400.1	2113.7 µg/L	2113.7 ppb	07:44:52
1	Tl 190.801†	-43.5	-17.1	19.124 µg/L	19.124 ppb	07:45:19
1	U 409.014†	-1522.3	-1498.4	-152.73 µg/L	-152.73 ppb	07:44:52
1	V 292.402†	8582.5	8502.4	108.62 µg/L	108.62 ppb	07:44:58
1	Zn 213.857†	12705.2	12065.9	314.70 µg/L	314.70 ppb	07:44:58
2	Sc RADIAL	54321.2	54321.2	101 %		07:43:54
2	Al 396.153Radial†	57974.9	57281.6	42497 µg/L	42497 ppb	07:43:54
2	Ca 317.933Radial†	6861.1	6600.0	6383.8 µg/L	6383.8 ppb	07:44:14
2	Fe 238.204 Radial†	10969.7	10821.7	95382 µg/L	95382 ppb	07:44:14
2	K 766.490 Radial†	7511.2	7268.1	5466.5 µg/L	5466.5 ppb	07:43:54
2	Mg 279.077 IEC†	616.9	597.9	5585.8 µg/L	5585.8 ppb	07:44:14
2	Na 589.592 Radial†	4271.5	3718.7	1241.1 µg/L	1241.1 ppb	07:43:54
2	Sr 421.552†	5102.3	5002.5	54.599 µg/L	54.599 ppb	07:43:54
2	Sc 361.383	1919405.6	1919405.6	101.93 %		07:45:26
2	Y 371.029	1377291.2	1377291.2	106.23 %		07:45:26
2	Ag 328.068†	-1656.0	-1036.8	-2.0396 µg/L	-2.0396 ppb	07:45:32
2	As 188.979†	14.2	13.7	33.606 µg/L	33.606 ppb	07:45:52
2	B 249.677†	763.8	473.9	-26.599 µg/L	-26.599 ppb	07:45:32
2	Ba 233.527†	11747.4	11555.3	323.78 µg/L	323.78 ppb	07:45:32
2	Be 313.107†	6487.1	9931.1	6.0518 µg/L	6.0518 ppb	07:45:32
2	Cd 226.502†	143.3	278.9	-2.2121 µg/L	-2.2121 ppb	07:45:52
2	Co 228.616†	733.8	737.7	34.539 µg/L	34.539 ppb	07:45:52
2	Cr 267.716†	26759.0	26285.5	610.18 µg/L	610.18 ppb	07:45:32
2	Cu 324.752†	5824.1	3011.4	35.481 µg/L	35.481 ppb	07:45:32
2	Mn 257.610†	679122.2	666518.6	2425.5 µg/L	2425.5 ppb	07:45:26
2	Mo 202.031†	220.5	226.0	28.306 µg/L	28.306 ppb	07:45:52
2	Ni 231.604†	5806.8	5399.2	316.57 µg/L	316.57 ppb	07:45:32
2	P 214.914†	222.2	190.8	365.92 µg/L	365.92 ppb	07:45:52
2	Pb 220.353†	325.2	229.0	64.056 µg/L	64.056 ppb	07:45:52

2	S 181.975 Axial†	50.7	35.7	172.86 µg/L	172.86 ppb	07:45:52
2	Sb 206.836†	40.2	16.6	9.8868 µg/L	9.8868 ppb	07:45:52
2	Se 196.026†	-28.6	-42.7	184.94 µg/L	184.94 ppb	07:45:52
2	SiO2†	87797.3	84804.6	19528 µg/L	19528 ppb	07:45:32
2	Si 251.611†	106094.7	103823.9	9117.9 µg/L	9117.9 ppb	07:45:32
2	Sn 189.927†	1.6	2.7	-8.2147 µg/L	-8.2147 ppb	07:45:52
2	Ti 334.940†	834844.9	818928.9	2079.5 µg/L	2079.5 ppb	07:45:26
2	Tl 190.801†	-43.2	-16.6	19.381 µg/L	19.381 ppb	07:45:52
2	U 409.014†	-1412.1	-1383.0	-141.91 µg/L	-141.91 ppb	07:45:26
2	V 292.402†	8582.3	8461.1	108.06 µg/L	108.06 ppb	07:45:32
2	Zn 213.857†	12700.2	12000.3	313.00 µg/L	313.00 ppb	07:45:32
3	Sc RADIAL	54484.8	54484.8	102 %		07:44:20
3	Al 396.153Radial†	58015.8	57150.0	42400 µg/L	42400 ppb	07:44:20
3	Ca 317.933Radial†	6879.0	6597.2	6381.1 µg/L	6381.1 ppb	07:44:40
3	Fe 238.204 Radial†	11022.5	10841.1	95553 µg/L	95553 ppb	07:44:40
3	K 766.490 Radial†	7527.8	7262.2	5462.1 µg/L	5462.1 ppb	07:44:20
3	Mg 279.077 IEC†	617.5	596.7	5574.0 µg/L	5574.0 ppb	07:44:40
3	Na 589.592 Radial†	4329.8	3763.4	1256.0 µg/L	1256.0 ppb	07:44:20
3	Sr 421.552†	5095.8	4981.0	54.363 µg/L	54.363 ppb	07:44:20
3	Sc 361.383	1888057.6	1888057.6	100.27 %		07:46:00
3	Y 371.029	1355818.3	1355818.3	104.57 %		07:46:00
3	Ag 328.068†	-1591.3	-999.2	-1.7249 µg/L	-1.7249 ppb	07:46:06
3	As 188.979†	2.5	2.2	9.8243 µg/L	9.8243 ppb	07:46:26
3	B 249.677†	785.7	508.2	-25.105 µg/L	-25.105 ppb	07:46:06
3	Ba 233.527†	11415.7	11415.8	319.87 µg/L	319.87 ppb	07:46:06
3	Be 313.107†	6236.7	9787.0	5.9546 µg/L	5.9546 ppb	07:46:06
3	Cd 226.502†	111.2	249.2	-3.1171 µg/L	-3.1171 ppb	07:46:26
3	Co 228.616†	681.2	697.1	32.416 µg/L	32.416 ppb	07:46:26
3	Cr 267.716†	25722.4	25687.6	596.31 µg/L	596.31 ppb	07:46:06
3	Cu 324.752†	5766.1	3048.4	35.779 µg/L	35.779 ppb	07:46:06
3	Mn 257.610†	668270.6	666757.8	2426.4 µg/L	2426.4 ppb	07:46:00
3	Mo 202.031†	213.1	222.2	27.897 µg/L	27.897 ppb	07:46:26
3	Ni 231.604†	5585.1	5272.7	309.19 µg/L	309.19 ppb	07:46:06
3	P 214.914†	209.8	182.0	345.86 µg/L	345.86 ppb	07:46:26
3	Pb 220.353†	295.3	204.4	57.063 µg/L	57.063 ppb	07:46:26
3	S 181.975 Axial†	47.9	33.7	163.15 µg/L	163.15 ppb	07:46:26
3	Sb 206.836†	39.3	16.3	9.8035 µg/L	9.8035 ppb	07:46:26
3	Se 196.026†	-31.1	-45.7	180.65 µg/L	180.65 ppb	07:46:26
3	SiO2†	81496.1	79950.4	18411 µg/L	18411 ppb	07:46:06
3	Si 251.611†	98261.8	97740.1	8583.6 µg/L	8583.6 ppb	07:46:06
3	Sn 189.927†	6.1	7.2	-6.0429 µg/L	-6.0429 ppb	07:46:26
3	Ti 334.940†	819051.4	816775.9	2074.0 µg/L	2074.0 ppb	07:46:00
3	Tl 190.801†	-43.8	-17.9	17.346 µg/L	17.346 ppb	07:46:26
3	U 409.014†	-1389.3	-1383.3	-141.96 µg/L	-141.96 ppb	07:46:00
3	V 292.402†	8299.6	8319.0	106.45 µg/L	106.45 ppb	07:46:06
3	Zn 213.857†	12362.7	11870.5	309.57 µg/L	309.57 ppb	07:46:06

Mean Data: 244628003|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1905853.6	101.21 %	0.855			0.84%
Sc RADIAL	54431.3	101 %	0.2			0.18%
Y 371.029	1368442.5	105.55 %	0.866			0.82%
Ag 328.068†	-1026.2	-1.9331 µg/L	0.18027	-1.9331 ppb	0.18027	9.33%
Al 396.153Radial†	57149.9	42400 µg/L	97.7	42400 ppb	97.7	0.23%
As 188.979†	7.2	20.200 µg/L	12.1767	20.200 ppb	12.1767	60.28%
B 249.677†	493.1	-25.877 µg/L	0.7480	-25.877 ppb	0.7480	2.89%
Ba 233.527†	11529.7	323.06 µg/L	2.899	323.06 ppb	2.899	0.90%
Be 313.107†	9884.0	6.0156 µg/L	0.05319	6.0156 ppb	0.05319	0.88%
Ca 317.933Radial†	6617.3	6400.4 µg/L	31.24	6400.4 ppb	31.24	0.49%
Cd 226.502†	269.1	-2.5401 µg/L	0.50119	-2.5401 ppb	0.50119	19.73%
Co 228.616†	723.8	33.791 µg/L	1.1929	33.791 ppb	1.1929	3.53%
Cr 267.716†	26096.9	605.81 µg/L	8.236	605.81 ppb	8.236	1.36%
Cu 324.752†	3022.7	35.610 µg/L	0.1528	35.610 ppb	0.1528	0.43%
Fe 238.204 Radial†	10858.3	95705 µg/L	419.3	95705 ppb	419.3	0.44%
K 766.490 Radial†	7270.0	5468.0 µg/L	6.75	5468.0 ppb	6.75	0.12%
Mg 279.077 IEC†	599.0	5596.1 µg/L	28.54	5596.1 ppb	28.54	0.51%
Mn 257.610†	669825.4	2437.5 µg/L	20.04	2437.5 ppb	20.04	0.82%
Mo 202.031†	226.6	28.391 µg/L	0.5409	28.391 ppb	0.5409	1.91%
Na 589.592 Radial†	3788.0	1264.2 µg/L	28.13	1264.2 ppb	28.13	2.23%

Ni 231.604†	5364.4	314.54 µg/L	4.685	314.54 ppb	4.685	1.49%
P 214.914†	185.9	354.57 µg/L	10.287	354.57 ppb	10.287	2.90%
Pb 220.353†	214.2	59.846 µg/L	3.7088	59.846 ppb	3.7088	6.20%
S 181.975 Axial†	35.4	171.43 µg/L	7.657	171.43 ppb	7.657	4.47%
Sb 206.836†	16.1	9.4697 µg/L	0.65166	9.4697 ppb	0.65166	6.88%
Se 196.026†	-46.0	180.54 µg/L	4.459	180.54 ppb	4.459	2.47%
SiO2†	83395.1	19204 µg/L	690.7	19204 ppb	690.7	3.60%
Si 251.611†	102043.2	8961.5 µg/L	328.90	8961.5 ppb	328.90	3.67%
Sn 189.927†	5.2	-7.0064 µg/L	1.10640	-7.0064 ppb	1.10640	15.79%
Sr 421.552†	4981.9	54.373 µg/L	0.2211	54.373 ppb	0.2211	0.41%
Ti 334.940†	822701.7	2089.1 µg/L	21.50	2089.1 ppb	21.50	1.03%
Tl 190.801†	-17.2	18.617 µg/L	1.1085	18.617 ppb	1.1085	5.95%
U 409.014†	-1421.6	-145.53 µg/L	6.231	-145.53 ppb	6.231	4.28%
V 292.402†	8427.5	107.71 µg/L	1.128	107.71 ppb	1.128	1.05%
Zn 213.857†	11978.9	312.42 µg/L	2.612	312.42 ppb	2.612	0.84%

Sequence No.: 15

Sample ID: 244628004|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 310

Date Collected: 2/9/2010 07:46:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628004|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53557.5	53557.5	99.8 %		07:47:08
1	Al 396.153Radial†	41202.5	41294.9	30637 µg/L	30637 ppb	07:47:08
1	Ca 317.933Radial†	5962.9	5796.8	5606.9 µg/L	5606.9 ppb	07:47:28
1	Fe 238.204 Radial†	10398.3	10403.7	91698 µg/L	91698 ppb	07:47:08
1	K 766.490 Radial†	6795.4	6656.8	5006.7 µg/L	5006.7 ppb	07:47:08
1	Mg 279.077 IEC†	601.7	591.4	5526.9 µg/L	5526.9 ppb	07:47:28
1	Na 589.592 Radial†	2274.3	1778.0	593.39 µg/L	593.39 ppb	07:47:08
1	Sr 421.552†	5154.6	5126.7	55.954 µg/L	55.954 ppb	07:47:08
1	Sc 361.383	1866813.5	1866813.5	99.139 %		07:48:33
1	Y 371.029	1345322.1	1345322.1	103.76 %		07:48:33
1	Ag 328.068†	-1625.7	-1052.0	-2.5597 µg/L	-2.5597 ppb	07:48:38
1	As 188.979†	10.8	10.7	27.243 µg/L	27.243 ppb	07:48:59
1	B 249.677†	818.1	549.8	-22.030 µg/L	-22.030 ppb	07:48:38
1	Ba 233.527†	13540.6	13688.8	383.49 µg/L	383.49 ppb	07:48:38
1	Be 313.107†	10027.5	13681.6	8.3209 µg/L	8.3209 ppb	07:48:38
1	Cd 226.502†	173.3	313.1	-1.0679 µg/L	-1.0679 ppb	07:48:59
1	Co 228.616†	388.3	409.4	15.505 µg/L	15.505 ppb	07:48:59
1	Cr 267.716†	1763.3	1812.4	42.113 µg/L	42.113 ppb	07:48:59
1	Cu 324.752†	6587.4	3942.2	41.839 µg/L	41.839 ppb	07:48:38
1	Mn 257.610†	867952.1	875757.5	3182.5 µg/L	3182.5 ppb	07:48:33
1	Mo 202.031†	82.3	92.7	13.609 µg/L	13.609 ppb	07:48:59
1	Ni 231.604†	794.9	504.3	30.622 µg/L	30.622 ppb	07:48:59
1	P 214.914†	427.7	404.1	849.51 µg/L	849.51 ppb	07:48:59
1	Pb 220.353†	389.5	302.8	84.482 µg/L	84.482 ppb	07:48:59
1	S 181.975 Axial†	72.4	59.0	285.62 µg/L	285.62 ppb	07:48:59
1	Sb 206.836†	24.4	1.7	0.9439 µg/L	0.9439 ppb	07:48:59
1	Se 196.026†	-33.3	-48.3	166.22 µg/L	166.22 ppb	07:48:59
1	SiO2†	101279.7	100830.6	23219 µg/L	23219 ppb	07:48:38
1	Si 251.611†	122720.3	123526.1	10848 µg/L	10848 ppb	07:48:38
1	Sn 189.927†	-7.4	-6.4	-12.273 µg/L	-12.273 ppb	07:48:59
1	Ti 334.940†	1135214.0	1144979.3	2907.5 µg/L	2907.5 ppb	07:48:33
1	Tl 190.801†	-50.6	-25.2	15.497 µg/L	15.497 ppb	07:48:59
1	U 409.014†	-974.3	-980.5	-104.02 µg/L	-104.02 ppb	07:48:33
1	V 292.402†	6209.2	6304.6	81.940 µg/L	81.940 ppb	07:48:38
1	Zn 213.857†	17901.9	17598.1	463.36 µg/L	463.36 ppb	07:48:38
2	Sc RADIAL	52936.7	52936.7	98.7 %		07:47:34
2	Al 396.153Radial†	42127.4	42716.3	31692 µg/L	31692 ppb	07:47:34
2	Ca 317.933Radial†	5958.0	5861.9	5669.8 µg/L	5669.8 ppb	07:47:54
2	Fe 238.204 Radial†	10537.9	10667.4	94022 µg/L	94022 ppb	07:47:34
2	K 766.490 Radial†	6984.8	6928.6	5211.2 µg/L	5211.2 ppb	07:47:34
2	Mg 279.077 IEC†	602.2	599.0	5597.3 µg/L	5597.3 ppb	07:47:54
2	Na 589.592 Radial†	2382.9	1914.7	639.01 µg/L	639.01 ppb	07:47:34
2	Sr 421.552†	5312.8	5347.7	58.366 µg/L	58.366 ppb	07:47:34
2	Sc 361.383	1874260.0	1874260.0	99.535 %		07:49:06
2	Y 371.029	1349534.0	1349534.0	104.09 %		07:49:06
2	Ag 328.068†	-1620.8	-1040.6	-2.3269 µg/L	-2.3269 ppb	07:49:11
2	As 188.979†	11.7	11.5	29.137 µg/L	29.137 ppb	07:49:32
2	B 249.677†	824.5	552.9	-23.097 µg/L	-23.097 ppb	07:49:11
2	Ba 233.527†	13420.0	13513.4	378.57 µg/L	378.57 ppb	07:49:11
2	Be 313.107†	9818.5	13431.3	8.1692 µg/L	8.1692 ppb	07:49:11
2	Cd 226.502†	172.0	311.1	-1.3914 µg/L	-1.3914 ppb	07:49:32
2	Co 228.616†	389.5	409.1	15.605 µg/L	15.605 ppb	07:49:32
2	Cr 267.716†	1772.1	1814.2	42.154 µg/L	42.154 ppb	07:49:32
2	Cu 324.752†	6519.0	3847.2	41.461 µg/L	41.461 ppb	07:49:11
2	Mn 257.610†	854862.7	859128.6	3122.6 µg/L	3122.6 ppb	07:49:06
2	Mo 202.031†	91.7	101.8	14.691 µg/L	14.691 ppb	07:49:32
2	Ni 231.604†	794.7	500.9	30.454 µg/L	30.454 ppb	07:49:32
2	P 214.914†	418.4	393.1	822.94 µg/L	822.94 ppb	07:49:32
2	Pb 220.353†	394.9	306.7	85.546 µg/L	85.546 ppb	07:49:32

2	S 181.975 Axial†	67.8	54.1	261.92 µg/L	261.92 ppb	07:49:32
2	Sb 206.836†	27.9	5.1	4.4435 µg/L	4.4435 ppb	07:49:32
2	Se 196.026†	-25.5	-40.3	185.31 µg/L	185.31 ppb	07:49:32
2	SiO2†	100788.3	99931.1	23012 µg/L	23012 ppb	07:49:11
2	Si 251.611†	122065.7	122376.6	10747 µg/L	10747 ppb	07:49:11
2	Sn 189.927†	-13.2	-12.1	-15.320 µg/L	-15.320 ppb	07:49:32
2	Ti 334.940†	1118468.5	1123606.1	2853.3 µg/L	2853.3 ppb	07:49:06
2	Tl 190.801†	-51.5	-26.0	14.078 µg/L	14.078 ppb	07:49:32
2	U 409.014†	-931.9	-934.0	-100.03 µg/L	-100.03 ppb	07:49:06
2	V 292.402†	6108.8	6178.9	80.808 µg/L	80.808 ppb	07:49:11
2	Zn 213.857†	17632.0	17255.2	454.13 µg/L	454.13 ppb	07:49:11
3	Sc RADIAL	53067.2	53067.2	98.9 %		07:48:00
3	Al 396.153Radial†	41918.7	42400.3	31457 µg/L	31457 ppb	07:48:00
3	Ca 317.933Radial†	5956.8	5845.8	5654.2 µg/L	5654.2 ppb	07:48:20
3	Fe 238.204 Radial†	10442.7	10544.9	92942 µg/L	92942 ppb	07:48:00
3	K 766.490 Radial†	6924.3	6850.1	5152.1 µg/L	5152.1 ppb	07:48:00
3	Mg 279.077 IEC†	605.9	601.2	5619.4 µg/L	5619.4 ppb	07:48:20
3	Na 589.592 Radial†	2426.6	1953.0	651.79 µg/L	651.79 ppb	07:48:00
3	Sr 421.552†	5230.0	5250.7	57.307 µg/L	57.307 ppb	07:48:00
3	Sc 361.383	1855326.9	1855326.9	98.529 %		07:49:39
3	Y 371.029	1336537.2	1336537.2	103.09 %		07:49:39
3	Ag 328.068†	-1588.4	-1024.3	-2.2581 µg/L	-2.2581 ppb	07:49:45
3	As 188.979†	8.0	7.9	21.581 µg/L	21.581 ppb	07:50:05
3	B 249.677†	772.2	508.3	-24.627 µg/L	-24.627 ppb	07:49:45
3	Ba 233.527†	13339.9	13569.6	380.15 µg/L	380.15 ppb	07:49:45
3	Be 313.107†	9759.8	13472.4	8.1822 µg/L	8.1822 ppb	07:49:45
3	Cd 226.502†	146.9	287.4	-1.9711 µg/L	-1.9711 ppb	07:50:05
3	Co 228.616†	362.6	385.8	14.292 µg/L	14.292 ppb	07:50:05
3	Cr 267.716†	1643.4	1701.7	39.543 µg/L	39.543 ppb	07:50:05
3	Cu 324.752†	6476.6	3871.0	41.486 µg/L	41.486 ppb	07:49:45
3	Mn 257.610†	858769.9	871858.5	3168.5 µg/L	3168.5 ppb	07:49:39
3	Mo 202.031†	83.0	93.9	13.792 µg/L	13.792 ppb	07:50:05
3	Ni 231.604†	760.7	474.5	28.902 µg/L	28.902 ppb	07:50:05
3	P 214.914†	385.3	363.8	757.17 µg/L	757.17 ppb	07:50:05
3	Pb 220.353†	384.9	300.6	83.831 µg/L	83.831 ppb	07:50:05
3	S 181.975 Axial†	71.1	58.1	281.07 µg/L	281.07 ppb	07:50:05
3	Sb 206.836†	28.4	5.9	5.2886 µg/L	5.2886 ppb	07:50:05
3	Se 196.026†	-37.3	-52.5	162.63 µg/L	162.63 ppb	07:50:05
3	SiO2†	94329.6	94409.3	21740 µg/L	21740 ppb	07:49:45
3	Si 251.611†	114114.9	115558.7	10148 µg/L	10148 ppb	07:49:45
3	Sn 189.927†	-5.8	-4.8	-11.624 µg/L	-11.624 ppb	07:50:05
3	Ti 334.940†	1122778.4	1139447.4	2893.5 µg/L	2893.5 ppb	07:49:39
3	Tl 190.801†	-52.7	-27.7	11.918 µg/L	11.918 ppb	07:50:05
3	U 409.014†	-961.9	-973.9	-103.59 µg/L	-103.59 ppb	07:49:39
3	V 292.402†	6047.4	6179.2	80.668 µg/L	80.668 ppb	07:49:45
3	Zn 213.857†	17658.2	17462.5	459.70 µg/L	459.70 ppb	07:49:45

Mean Data: 244628004|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1865466.8	99.068 %		0.5065			0.51%
Sc RADIAL	53187.1	99.1 %		0.61			0.62%
Y 371.029	1343797.8	103.65 %		0.511			0.49%
Ag 328.068†	-1039.0	-2.3816 µg/L		0.15802	-2.3816 ppb	0.15802	6.63%
Al 396.153Radial†	42137.2	31262 µg/L		553.7	31262 ppb	553.7	1.77%
As 188.979†	10.1	25.987 µg/L		3.9313	25.987 ppb	3.9313	15.13%
B 249.677†	537.0	-23.251 µg/L		1.3054	-23.251 ppb	1.3054	5.61%
Ba 233.527†	13590.6	380.74 µg/L		2.510	380.74 ppb	2.510	0.66%
Be 313.107†	13528.4	8.2241 µg/L		0.08412	8.2241 ppb	0.08412	1.02%
Ca 317.933Radial†	5834.8	5643.6 µg/L		32.77	5643.6 ppb	32.77	0.58%
Cd 226.502†	303.9	-1.4768 µg/L		0.45763	-1.4768 ppb	0.45763	30.99%
Co 228.616†	401.4	15.134 µg/L		0.7306	15.134 ppb	0.7306	4.83%
Cr 267.716†	1776.1	41.270 µg/L		1.4955	41.270 ppb	1.4955	3.62%
Cu 324.752†	3886.8	41.595 µg/L		0.2116	41.595 ppb	0.2116	0.51%
Fe 238.204 Radial†	10538.7	92888 µg/L		1163.0	92888 ppb	1163.0	1.25%
K 766.490 Radial†	6811.8	5123.3 µg/L		105.22	5123.3 ppb	105.22	2.05%
Mg 279.077 IEC†	597.2	5581.2 µg/L		48.30	5581.2 ppb	48.30	0.87%
Mn 257.610†	868914.9	3157.9 µg/L		31.34	3157.9 ppb	31.34	0.99%
Mo 202.031†	96.1	14.031 µg/L		0.5791	14.031 ppb	0.5791	4.13%
Na 589.592 Radial†	1881.9	628.07 µg/L		30.702	628.07 ppb	30.702	4.89%

Ni 231.604†	493.2	29.993 µg/L	0.9480	29.993 ppb	0.9480	3.16%
P 214.914†	387.0	809.87 µg/L	47.535	809.87 ppb	47.535	5.87%
Pb 220.353†	303.4	84.620 µg/L	0.8656	84.620 ppb	0.8656	1.02%
S 181.975 Axial†	57.1	276.21 µg/L	12.579	276.21 ppb	12.579	4.55%
Sb 206.836†	4.2	3.5586 µg/L	2.30355	3.5586 ppb	2.30355	64.73%
Se 196.026†	-47.0	171.39 µg/L	12.190	171.39 ppb	12.190	7.11%
SiO2†	98390.4	22657 µg/L	800.6	22657 ppb	800.6	3.53%
Si 251.611†	120487.1	10581 µg/L	378.2	10581 ppb	378.2	3.57%
Sn 189.927†	-7.8	-13.073 µg/L	1.9734	-13.073 ppb	1.9734	15.10%
Sr 421.552†	5241.7	57.209 µg/L	1.2088	57.209 ppb	1.2088	2.11%
Ti 334.940†	1136010.9	2884.8 µg/L	28.18	2884.8 ppb	28.18	0.98%
Tl 190.801†	-26.3	13.831 µg/L	1.8022	13.831 ppb	1.8022	13.03%
U 409.014†	-962.8	-102.55 µg/L	2.187	-102.55 ppb	2.187	2.13%
V 292.402†	6220.9	81.139 µg/L	0.6975	81.139 ppb	0.6975	0.86%
Zn 213.857†	17438.6	459.07 µg/L	4.651	459.07 ppb	4.651	1.01%

Sequence No.: 16

Sample ID: 244628005|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 311

Date Collected: 2/9/2010 07:50:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628005|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54642.4	54642.4	102 %			07:50:47
1	Al 396.153Radial†	25672.4	25225.4	18715 µg/L		18715 ppb	07:50:47
1	Ca 317.933Radial†	2896.0	2666.6	2579.2 µg/L		2579.2 ppb	07:51:07
1	Fe 238.204 Radial†	9874.3	9682.3	85340 µg/L		85340 ppb	07:50:47
1	K 766.490 Radial†	4328.7	4099.4	3083.3 µg/L		3083.3 ppb	07:50:47
1	Mg 279.077 IEC†	357.2	339.4	3136.6 µg/L		3136.6 ppb	07:51:07
1	Na 589.592 Radial†	6731.1	6109.1	2038.8 µg/L		2038.8 ppb	07:50:47
1	Sr 421.552†	2160.6	2084.3	22.748 µg/L		22.748 ppb	07:50:47
1	Sc 361.383	1928867.3	1928867.3	102.43 %			07:52:11
1	Y 371.029	1433180.8	1433180.8	110.54 %			07:52:11
1	Ag 328.068†	-1668.4	-1040.9	-3.1810 µg/L		-3.1810 ppb	07:52:17
1	As 188.979†	8.7	8.3	22.043 µg/L		22.043 ppb	07:52:37
1	B 249.677†	689.9	398.1	-25.836 µg/L		-25.836 ppb	07:52:17
1	Ba 233.527†	4332.5	4260.2	119.35 µg/L		119.35 ppb	07:52:17
1	Be 313.107†	10192.3	13517.0	8.1388 µg/L		8.1388 ppb	07:52:17
1	Cd 226.502†	157.0	291.6	-0.9978 µg/L		-0.9978 ppb	07:52:17
1	Co 228.616†	243.6	255.5	7.0199 µg/L		7.0199 ppb	07:52:37
1	Cr 267.716†	1335.5	1337.5	31.060 µg/L		31.060 ppb	07:52:17
1	Cu 324.752†	4635.2	1822.8	25.314 µg/L		25.314 ppb	07:52:17
1	Mn 257.610†	916776.7	895256.3	3252.3 µg/L		3252.3 ppb	07:52:11
1	Mo 202.031†	49.2	57.7	9.5459 µg/L		9.5459 ppb	07:52:37
1	Ni 231.604†	614.7	302.6	18.766 µg/L		18.766 ppb	07:52:37
1	P 214.914†	307.1	272.5	553.82 µg/L		553.82 ppb	07:52:37
1	Pb 220.353†	310.0	212.6	58.509 µg/L		58.509 ppb	07:52:37
1	S 181.975 Axial†	41.5	26.5	128.38 µg/L		128.38 ppb	07:52:37
1	Sb 206.836†	24.5	1.1	0.6302 µg/L		0.6302 ppb	07:52:37
1	Se 196.026†	-33.2	-47.1	153.74 µg/L		153.74 ppb	07:52:37
1	SiO2†	67169.1	64244.3	14794 µg/L		14794 ppb	07:52:17
1	Si 251.611†	80628.4	78452.4	6889.8 µg/L		6889.8 ppb	07:52:17
1	Sn 189.927†	-15.0	-13.5	-15.346 µg/L		-15.346 ppb	07:52:37
1	Ti 334.940†	1245685.8	1215987.2	3088.0 µg/L		3088.0 ppb	07:52:11
1	Tl 190.801†	-56.3	-29.2	9.7395 µg/L		9.7395 ppb	07:52:37
1	U 409.014†	-2161.8	-2108.2	-207.53 µg/L		-207.53 ppb	07:52:11
1	V 292.402†	2095.6	2087.3	33.490 µg/L		33.490 ppb	07:52:17
1	Zn 213.857†	23455.4	22438.7	592.67 µg/L		592.67 ppb	07:52:17
2	Sc RADIAL	54921.6	54921.6	102 %			07:51:13
2	Al 396.153Radial†	25827.7	25249.0	18732 µg/L		18732 ppb	07:51:13
2	Ca 317.933Radial†	2858.6	2615.6	2529.9 µg/L		2529.9 ppb	07:51:33
2	Fe 238.204 Radial†	9958.1	9714.9	85626 µg/L		85626 ppb	07:51:13
2	K 766.490 Radial†	4345.3	4094.1	3079.3 µg/L		3079.3 ppb	07:51:13
2	Mg 279.077 IEC†	353.1	333.5	3080.7 µg/L		3080.7 ppb	07:51:33
2	Na 589.592 Radial†	6780.8	6124.0	2043.8 µg/L		2043.8 ppb	07:51:13
2	Sr 421.552†	2222.5	2133.9	23.290 µg/L		23.290 ppb	07:51:13
2	Sc 361.383	1896465.4	1896465.4	100.71 %			07:52:45
2	Y 371.029	1414185.8	1414185.8	109.08 %			07:52:45
2	Ag 328.068†	-1603.2	-1004.0	-2.8509 µg/L		-2.8509 ppb	07:52:50
2	As 188.979†	8.4	8.1	21.755 µg/L		21.755 ppb	07:53:11
2	B 249.677†	697.6	417.2	-25.087 µg/L		-25.087 ppb	07:52:50
2	Ba 233.527†	4322.5	4322.5	121.10 µg/L		121.10 ppb	07:52:50
2	Be 313.107†	10317.4	13811.2	8.3061 µg/L		8.3061 ppb	07:52:50
2	Cd 226.502†	157.0	294.2	-0.9515 µg/L		-0.9515 ppb	07:52:50
2	Co 228.616†	240.6	256.6	6.8837 µg/L		6.8837 ppb	07:53:11
2	Cr 267.716†	1342.2	1366.5	31.734 µg/L		31.734 ppb	07:52:50
2	Cu 324.752†	4629.0	1893.9	25.879 µg/L		25.879 ppb	07:52:50
2	Mn 257.610†	927692.2	921385.6	3347.0 µg/L		3347.0 ppb	07:52:45
2	Mo 202.031†	44.6	54.0	9.1480 µg/L		9.1480 ppb	07:53:11
2	Ni 231.604†	623.5	321.5	19.877 µg/L		19.877 ppb	07:53:11
2	P 214.914†	313.9	284.5	580.57 µg/L		580.57 ppb	07:53:11
2	Pb 220.353†	312.0	219.7	60.527 µg/L		60.527 ppb	07:53:11

2	S 181.975 Axial†	40.1	25.8	124.61 µg/L	124.61 ppb	07:53:11
2	Sb 206.836†	32.5	9.4	9.0973 µg/L	9.0973 ppb	07:53:11
2	Se 196.026†	-30.8	-45.3	157.46 µg/L	157.46 ppb	07:53:11
2	SiO2†	67795.6	65986.7	15195 µg/L	15195 ppb	07:52:50
2	Si 251.611†	81312.4	80476.4	7067.5 µg/L	7067.5 ppb	07:52:50
2	Sn 189.927†	-19.7	-18.4	-17.785 µg/L	-17.785 ppb	07:53:11
2	Ti 334.940†	1261669.5	1252634.8	3181.1 µg/L	3181.1 ppb	07:52:45
2	Tl 190.801†	-57.4	-31.2	7.9264 µg/L	7.9264 ppb	07:53:11
2	U 409.014†	-2206.3	-2188.4	-215.01 µg/L	-215.01 ppb	07:52:45
2	V 292.402†	2100.5	2127.2	33.963 µg/L	33.963 ppb	07:52:50
2	Zn 213.857†	23557.1	22930.9	605.75 µg/L	605.75 ppb	07:52:50
3	Sc RADIAL	56003.6	56003.6	104 %		07:51:38
3	Al 396.153Radial†	25496.2	24443.9	18135 µg/L	18135 ppb	07:51:38
3	Ca 317.933Radial†	2817.4	2522.2	2439.6 µg/L	2439.6 ppb	07:51:59
3	Fe 238.204 Radial†	9792.1	9367.9	82568 µg/L	82568 ppb	07:51:38
3	K 766.490 Radial†	4353.1	4019.5	3023.2 µg/L	3023.2 ppb	07:51:38
3	Mg 279.077 IEC†	346.3	320.4	2958.8 µg/L	2958.8 ppb	07:51:59
3	Na 589.592 Radial†	6681.7	5901.1	1969.4 µg/L	1969.4 ppb	07:51:38
3	Sr 421.552†	2203.8	2074.0	22.636 µg/L	22.636 ppb	07:51:38
3	Sc 361.383	1915375.0	1915375.0	101.72 %		07:53:18
3	Y 371.029	1422260.4	1422260.4	109.70 %		07:53:18
3	Ag 328.068†	-1594.4	-979.7	-2.8437 µg/L	-2.8437 ppb	07:53:24
3	As 188.979†	5.2	4.9	14.923 µg/L	14.923 ppb	07:53:44
3	B 249.677†	668.9	382.2	-25.136 µg/L	-25.136 ppb	07:53:24
3	Ba 233.527†	4163.8	4124.0	115.54 µg/L	115.54 ppb	07:53:24
3	Be 313.107†	9701.3	13104.4	7.8725 µg/L	7.8725 ppb	07:53:24
3	Cd 226.502†	142.9	278.9	-1.0628 µg/L	-1.0628 ppb	07:53:24
3	Co 228.616†	226.7	240.6	6.3314 µg/L	6.3314 ppb	07:53:44
3	Cr 267.716†	1287.6	1299.6	30.180 µg/L	30.180 ppb	07:53:24
3	Cu 324.752†	4518.4	1739.8	24.316 µg/L	24.316 ppb	07:53:24
3	Mn 257.610†	898269.8	883366.4	3208.9 µg/L	3208.9 ppb	07:53:18
3	Mo 202.031†	35.4	44.5	7.9978 µg/L	7.9978 ppb	07:53:44
3	Ni 231.604†	603.1	295.4	18.313 µg/L	18.313 ppb	07:53:44
3	P 214.914†	306.1	273.7	558.64 µg/L	558.64 ppb	07:53:44
3	Pb 220.353†	302.5	207.3	57.064 µg/L	57.064 ppb	07:53:44
3	S 181.975 Axial†	37.1	22.5	108.74 µg/L	108.74 ppb	07:53:44
3	Sb 206.836†	20.1	-3.1	-3.6166 µg/L	-3.6166 ppb	07:53:44
3	Se 196.026†	-33.8	-47.9	144.96 µg/L	144.96 ppb	07:53:44
3	SiO2†	63008.9	60616.2	13958 µg/L	13958 ppb	07:53:24
3	Si 251.611†	75499.4	73964.5	6495.6 µg/L	6495.6 ppb	07:53:24
3	Sn 189.927†	-11.5	-10.2	-13.439 µg/L	-13.439 ppb	07:53:44
3	Ti 334.940†	1217970.7	1197306.5	3040.6 µg/L	3040.6 ppb	07:53:18
3	Tl 190.801†	-52.6	-25.9	13.638 µg/L	13.638 ppb	07:53:44
3	U 409.014†	-2031.2	-1994.6	-196.61 µg/L	-196.61 ppb	07:53:18
3	V 292.402†	2067.0	2073.6	33.007 µg/L	33.007 ppb	07:53:24
3	Zn 213.857†	22764.2	21920.5	579.03 µg/L	579.03 ppb	07:53:24

Mean Data: 244628005|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1913569.2	101.62 %	0.864			0.85%
Sc RADIAL	55189.2	103 %	1.3			1.30%
Y 371.029	1423209.0	109.77 %	0.735			0.67%
Ag 328.068†	-1008.2	-2.9585 µg/L	0.19269	-2.9585 ppb	0.19269	6.51%
Al 396.153Radial†	24972.7	18527 µg/L	339.9	18527 ppb	339.9	1.83%
As 188.979†	7.1	19.574 µg/L	4.0301	19.574 ppb	4.0301	20.59%
B 249.677†	399.2	-25.353 µg/L	0.4191	-25.353 ppb	0.4191	1.65%
Ba 233.527†	4235.6	118.66 µg/L	2.842	118.66 ppb	2.842	2.40%
Be 313.107†	13477.6	8.1058 µg/L	0.21867	8.1058 ppb	0.21867	2.70%
Ca 317.933Radial†	2601.5	2516.3 µg/L	70.83	2516.3 ppb	70.83	2.81%
Cd 226.502†	288.2	-1.0040 µg/L	0.05588	-1.0040 ppb	0.05588	5.57%
Co 228.616†	250.9	6.7450 µg/L	0.36461	6.7450 ppb	0.36461	5.41%
Cr 267.716†	1334.5	30.991 µg/L	0.7790	30.991 ppb	0.7790	2.51%
Cu 324.752†	1818.8	25.169 µg/L	0.7912	25.169 ppb	0.7912	3.14%
Fe 238.204 Radial†	9588.3	84511 µg/L	1689.1	84511 ppb	1689.1	2.00%
K 766.490 Radial†	4071.0	3061.9 µg/L	33.58	3061.9 ppb	33.58	1.10%
Mg 279.077 IEC†	331.1	3058.7 µg/L	90.91	3058.7 ppb	90.91	2.97%
Mn 257.610†	900002.7	3269.4 µg/L	70.59	3269.4 ppb	70.59	2.16%
Mo 202.031†	52.1	8.8972 µg/L	0.80393	8.8972 ppb	0.80393	9.04%
Na 589.592 Radial†	6044.7	2017.3 µg/L	41.59	2017.3 ppb	41.59	2.06%

Ni 231.604†	306.5	18.985 µg/L	0.8052	18.985 ppb	0.8052	4.24%
P 214.914†	276.9	564.34 µg/L	14.257	564.34 ppb	14.257	2.53%
Pb 220.353†	213.2	58.700 µg/L	1.7396	58.700 ppb	1.7396	2.96%
S 181.975 Axial†	24.9	120.58 µg/L	10.425	120.58 ppb	10.425	8.65%
Sb 206.836†	2.5	2.0370 µg/L	6.47266	2.0370 ppb	6.47266	317.76%
Se 196.026†	-46.8	152.05 µg/L	6.416	152.05 ppb	6.416	4.22%
SiO2†	63615.7	14649 µg/L	630.9	14649 ppb	630.9	4.31%
Si 251.611†	77631.1	6817.6 µg/L	292.68	6817.6 ppb	292.68	4.29%
Sn 189.927†	-14.1	-15.523 µg/L	2.1785	-15.523 ppb	2.1785	14.03%
Sr 421.552†	2097.4	22.892 µg/L	0.3497	22.892 ppb	0.3497	1.53%
Ti 334.940†	1221976.2	3103.2 µg/L	71.48	3103.2 ppb	71.48	2.30%
Tl 190.801†	-28.8	10.435 µg/L	2.9187	10.435 ppb	2.9187	27.97%
U 409.014†	-2097.0	-206.38 µg/L	9.256	-206.38 ppb	9.256	4.48%
V 292.402†	2096.0	33.487 µg/L	0.4783	33.487 ppb	0.4783	1.43%
Zn 213.857†	22430.0	592.48 µg/L	13.361	592.48 ppb	13.361	2.26%

Sequence No.: 17
 Sample ID: 244628006|950667|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 312
 Date Collected: 2/9/2010 07:53:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628006|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54838.2	54838.2	102 %		07:54:26
1	Al 396.153Radial†	90026.1	88102.2	65364 µg/L	65364 ppb	07:54:26
1	Ca 317.933Radial†	18842.8	18259.6	17661 µg/L	17661 ppb	07:54:26
1	Fe 238.204 Radial†	10712.4	10467.7	92262 µg/L	92262 ppb	07:54:46
1	K 766.490 Radial†	11315.5	10920.5	8213.6 µg/L	8213.6 ppb	07:54:26
1	Mg 279.077 IEC†	1204.4	1167.0	11002 µg/L	11002 ppb	07:54:46
1	Na 589.592 Radial†	3558.9	2981.6	995.08 µg/L	995.08 ppb	07:54:26
1	Sr 421.552†	13226.0	12903.7	140.83 µg/L	140.83 ppb	07:54:26
1	Sc 361.383	1881059.4	1881059.4	99.896 %		07:55:50
1	Y 371.029	1339881.0	1339881.0	103.34 %		07:55:50
1	Ag 328.068†	-1644.9	-1058.8	-2.3461 µg/L	-2.3461 ppb	07:55:56
1	As 188.979†	7.5	7.2	19.469 µg/L	19.469 ppb	07:56:16
1	B 249.677†	1002.3	727.9	-13.457 µg/L	-13.457 ppb	07:55:56
1	Ba 233.527†	19747.6	19798.8	554.67 µg/L	554.67 ppb	07:55:56
1	Be 313.107†	8980.6	12556.9	7.8423 µg/L	7.8423 ppb	07:55:56
1	Cd 226.502†	136.5	274.9	-2.0945 µg/L	-2.0945 ppb	07:56:16
1	Co 228.616†	613.4	631.8	28.853 µg/L	28.853 ppb	07:56:16
1	Cr 267.716†	15945.2	15995.6	371.35 µg/L	371.35 ppb	07:55:56
1	Cu 324.752†	7485.6	4791.1	48.182 µg/L	48.182 ppb	07:55:56
1	Mn 257.610†	544425.1	545262.8	1985.9 µg/L	1985.9 ppb	07:55:50
1	Mo 202.031†	172.1	182.0	23.383 µg/L	23.383 ppb	07:56:16
1	Ni 231.604†	3661.1	3367.4	197.85 µg/L	197.85 ppb	07:56:16
1	P 214.914†	362.1	335.2	701.79 µg/L	701.79 ppb	07:56:16
1	Pb 220.353†	311.7	221.9	63.378 µg/L	63.378 ppb	07:56:16
1	S 181.975 Axial†	179.4	165.5	800.97 µg/L	800.97 ppb	07:56:16
1	Sb 206.836†	38.5	15.7	10.645 µg/L	10.645 ppb	07:56:16
1	Se 196.026†	-40.7	-55.5	147.87 µg/L	147.87 ppb	07:56:16
1	SiO2†	100399.2	99175.5	22838 µg/L	22838 ppb	07:55:56
1	Si 251.611†	121731.7	121599.0	10679 µg/L	10679 ppb	07:55:56
1	Sn 189.927†	-1.0	0.1	-8.5586 µg/L	-8.5586 ppb	07:56:16
1	Ti 334.940†	837886.4	838669.6	2129.4 µg/L	2129.4 ppb	07:55:50
1	Tl 190.801†	-47.4	-21.6	10.857 µg/L	10.857 ppb	07:56:16
1	U 409.014†	-1162.2	-1161.1	-121.58 µg/L	-121.58 ppb	07:55:50
1	V 292.402†	9408.9	9460.3	118.39 µg/L	118.39 ppb	07:55:56
1	Zn 213.857†	10819.3	10371.4	270.01 µg/L	270.01 ppb	07:55:56
2	Sc RADIAL	53582.2	53582.2	99.9 %		07:54:52
2	Al 396.153Radial†	90994.9	91137.2	67615 µg/L	67615 ppb	07:54:52
2	Ca 317.933Radial†	18875.0	18724.0	18110 µg/L	18110 ppb	07:54:52
2	Fe 238.204 Radial†	10586.8	10587.6	93320 µg/L	93320 ppb	07:55:12
2	K 766.490 Radial†	11388.0	11252.6	8463.4 µg/L	8463.4 ppb	07:54:52
2	Mg 279.077 IEC†	1193.1	1183.3	11157 µg/L	11157 ppb	07:55:12
2	Na 589.592 Radial†	3517.0	3021.4	1008.3 µg/L	1008.3 ppb	07:54:52
2	Sr 421.552†	13345.3	13326.4	145.45 µg/L	145.45 ppb	07:54:52
2	Sc 361.383	1892307.0	1892307.0	100.49 %		07:56:24
2	Y 371.029	1346614.3	1346614.3	103.86 %		07:56:24
2	Ag 328.068†	-1645.3	-1049.5	-2.2260 µg/L	-2.2260 ppb	07:56:29
2	As 188.979†	10.0	9.7	24.678 µg/L	24.678 ppb	07:56:50
2	B 249.677†	992.0	711.7	-14.783 µg/L	-14.783 ppb	07:56:29
2	Ba 233.527†	19306.0	19241.9	539.06 µg/L	539.06 ppb	07:56:29
2	Be 313.107†	8719.0	12243.2	7.6497 µg/L	7.6497 ppb	07:56:29
2	Cd 226.502†	134.1	271.7	-2.3123 µg/L	-2.3123 ppb	07:56:50
2	Co 228.616†	610.4	625.1	28.630 µg/L	28.630 ppb	07:56:50
2	Cr 267.716†	15630.6	15587.6	361.88 µg/L	361.88 ppb	07:56:29
2	Cu 324.752†	7331.0	4592.8	46.865 µg/L	46.865 ppb	07:56:29
2	Mn 257.610†	531844.1	529504.2	1928.9 µg/L	1928.9 ppb	07:56:24
2	Mo 202.031†	166.3	175.2	22.681 µg/L	22.681 ppb	07:56:50
2	Ni 231.604†	3634.0	3318.6	195.02 µg/L	195.02 ppb	07:56:50
2	P 214.914†	372.0	343.0	719.29 µg/L	719.29 ppb	07:56:50
2	Pb 220.353†	316.8	225.2	64.404 µg/L	64.404 ppb	07:56:50

2	S 181.975 Axial†	175.6	160.7	777.80 µg/L	777.80 ppb	07:56:50
2	Sb 206.836†	34.9	11.8	6.7361 µg/L	6.7361 ppb	07:56:50
2	Se 196.026†	-33.0	-47.5	163.36 µg/L	163.36 ppb	07:56:50
2	SiO2†	97663.4	95855.8	22073 µg/L	22073 ppb	07:56:29
2	Si 251.611†	118220.1	117380.3	10308 µg/L	10308 ppb	07:56:29
2	Sn 189.927†	-8.9	-7.8	-12.513 µg/L	-12.513 ppb	07:56:50
2	Ti 334.940†	818394.9	814288.4	2067.4 µg/L	2067.4 ppb	07:56:24
2	Tl 190.801†	-46.4	-20.3	12.298 µg/L	12.298 ppb	07:56:50
2	U 409.014†	-1193.8	-1185.7	-124.04 µg/L	-124.04 ppb	07:56:24
2	V 292.402†	9130.4	9127.2	114.73 µg/L	114.73 ppb	07:56:29
2	Zn 213.857†	10615.2	10103.9	262.85 µg/L	262.85 ppb	07:56:29
3	Sc RADIAL	54595.2	54595.2	102 %		07:55:18
3	Al 396.153Radial†	89807.5	88279.5	65495 µg/L	65495 ppb	07:55:18
3	Ca 317.933Radial†	18642.4	18144.8	17550 µg/L	17550 ppb	07:55:18
3	Fe 238.204 Radial†	10663.4	10466.3	92250 µg/L	92250 ppb	07:55:38
3	K 766.490 Radial†	11280.8	10935.7	8225.0 µg/L	8225.0 ppb	07:55:18
3	Mg 279.077 IEC†	1193.2	1161.2	10947 µg/L	10947 ppb	07:55:38
3	Na 589.592 Radial†	3493.4	2932.8	978.79 µg/L	978.79 ppb	07:55:18
3	Sr 421.552†	13203.2	12938.8	141.22 µg/L	141.22 ppb	07:55:18
3	Sc 361.383	1881237.1	1881237.1	99.905 %		07:56:57
3	Y 371.029	1338997.5	1338997.5	103.28 %		07:56:57
3	Ag 328.068†	-1602.1	-1015.8	-2.0115 µg/L	-2.0115 ppb	07:57:03
3	As 188.979†	6.2	5.9	16.762 µg/L	16.762 ppb	07:57:23
3	B 249.677†	945.1	670.6	-16.158 µg/L	-16.158 ppb	07:57:03
3	Ba 233.527†	19150.0	19198.8	537.86 µg/L	537.86 ppb	07:57:03
3	Be 313.107†	8398.3	11973.3	7.4585 µg/L	7.4585 ppb	07:57:03
3	Cd 226.502†	127.2	265.6	-2.3820 µg/L	-2.3820 ppb	07:57:23
3	Co 228.616†	570.8	589.1	26.703 µg/L	26.703 ppb	07:57:23
3	Cr 267.716†	15315.1	15363.4	356.67 µg/L	356.67 ppb	07:57:03
3	Cu 324.752†	7327.6	4632.2	47.008 µg/L	47.008 ppb	07:57:03
3	Mn 257.610†	533579.4	534355.3	1946.4 µg/L	1946.4 ppb	07:56:57
3	Mo 202.031†	160.2	170.1	22.079 µg/L	22.079 ppb	07:57:23
3	Ni 231.604†	3426.3	3132.0	184.11 µg/L	184.11 ppb	07:57:23
3	P 214.914†	348.6	321.6	671.07 µg/L	671.07 ppb	07:57:23
3	Pb 220.353†	292.4	202.6	57.873 µg/L	57.873 ppb	07:57:23
3	S 181.975 Axial†	172.3	158.4	766.57 µg/L	766.57 ppb	07:57:23
3	Sb 206.836†	41.1	18.3	13.436 µg/L	13.436 ppb	07:57:23
3	Se 196.026†	-20.9	-35.6	180.02 µg/L	180.02 ppb	07:57:23
3	SiO2†	93308.2	92068.4	21201 µg/L	21201 ppb	07:57:03
3	Si 251.611†	112749.3	112596.6	9888.3 µg/L	9888.3 ppb	07:57:03
3	Sn 189.927†	-8.6	-7.5	-12.304 µg/L	-12.304 ppb	07:57:23
3	Ti 334.940†	818874.1	819560.1	2080.8 µg/L	2080.8 ppb	07:56:57
3	Tl 190.801†	-44.6	-18.8	14.519 µg/L	14.519 ppb	07:57:23
3	U 409.014†	-1111.7	-1110.4	-116.87 µg/L	-116.87 ppb	07:56:57
3	V 292.402†	9081.1	9131.2	114.64 µg/L	114.64 ppb	07:57:03
3	Zn 213.857†	10549.0	10099.8	262.84 µg/L	262.84 ppb	07:57:03

Mean Data: 244628006|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1884867.8	100.10 %		0.342			0.34%
Sc RADIAL	54338.5	101 %		1.2			1.23%
Y 371.029	1341830.9	103.50 %		0.321			0.31%
Ag 328.068†	-1041.4	-2.1945 µg/L		0.16948	-2.1945 ppb	0.16948	7.72%
Al 396.153Radial†	89173.0	66158 µg/L		1263.8	66158 ppb	1263.8	1.91%
As 188.979†	7.6	20.303 µg/L		4.0230	20.303 ppb	4.0230	19.82%
B 249.677†	703.4	-14.799 µg/L		1.3505	-14.799 ppb	1.3505	9.13%
Ba 233.527†	19413.2	543.86 µg/L		9.377	543.86 ppb	9.377	1.72%
Be 313.107†	12257.8	7.6502 µg/L		0.19187	7.6502 ppb	0.19187	2.51%
Ca 317.933Radial†	18376.1	17774 µg/L		296.7	17774 ppb	296.7	1.67%
Cd 226.502†	270.8	-2.2629 µg/L		0.14998	-2.2629 ppb	0.14998	6.63%
Co 228.616†	615.3	28.062 µg/L		1.1821	28.062 ppb	1.1821	4.21%
Cr 267.716†	15648.9	363.30 µg/L		7.441	363.30 ppb	7.441	2.05%
Cu 324.752†	4672.0	47.352 µg/L		0.7224	47.352 ppb	0.7224	1.53%
Fe 238.204 Radial†	10507.2	92611 µg/L		614.1	92611 ppb	614.1	0.66%
K 766.490 Radial†	11036.3	8300.7 µg/L		141.02	8300.7 ppb	141.02	1.70%
Mg 279.077 IEC†	1170.5	11035 µg/L		108.5	11035 ppb	108.5	0.98%
Mn 257.610†	536374.1	1953.7 µg/L		29.16	1953.7 ppb	29.16	1.49%
Mo 202.031†	175.7	22.715 µg/L		0.6526	22.715 ppb	0.6526	2.87%
Na 589.592 Radial†	2978.6	994.07 µg/L		14.800	994.07 ppb	14.800	1.49%

Ni 231.604†	3272.7	192.33 µg/L	7.258	192.33 ppb	7.258	3.77%
P 214.914†	333.3	697.38 µg/L	24.407	697.38 ppb	24.407	3.50%
Pb 220.353†	216.6	61.885 µg/L	3.5119	61.885 ppb	3.5119	5.67%
S 181.975 Axial†	161.6	781.78 µg/L	17.544	781.78 ppb	17.544	2.24%
Sb 206.836†	15.3	10.272 µg/L	3.3655	10.272 ppb	3.3655	32.76%
Se 196.026†	-46.2	163.75 µg/L	16.081	163.75 ppb	16.081	9.82%
SiO2†	95699.9	22037 µg/L	818.9	22037 ppb	818.9	3.72%
Si 251.611†	117192.0	10292 µg/L	395.6	10292 ppb	395.6	3.84%
Sn 189.927†	-5.0	-11.125 µg/L	2.2252	-11.125 ppb	2.2252	20.00%
Sr 421.552†	13056.3	142.50 µg/L	2.561	142.50 ppb	2.561	1.80%
Ti 334.940†	824172.7	2092.5 µg/L	32.58	2092.5 ppb	32.58	1.56%
Tl 190.801†	-20.3	12.558 µg/L	1.8449	12.558 ppb	1.8449	14.69%
U 409.014†	-1152.4	-120.83 µg/L	3.640	-120.83 ppb	3.640	3.01%
V 292.402†	9239.6	115.92 µg/L	2.140	115.92 ppb	2.140	1.85%
Zn 213.857†	10191.7	265.23 µg/L	4.134	265.23 ppb	4.134	1.56%

Sequence No.: 18

Sample ID: 244628007|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 313

Date Collected: 2/9/2010 07:57:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628007|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53578.1	53578.1	99.9 %		07:58:05
1	Al 396.153Radial†	53888.7	53983.8	40051 µg/L	40051 ppb	07:58:05
1	Ca 317.933Radial†	6228.8	6060.8	5862.2 µg/L	5862.2 ppb	07:58:25
1	Fe 238.204 Radial†	10522.6	10524.2	92761 µg/L	92761 ppb	07:58:25
1	K 766.490 Radial†	6812.5	6671.3	5017.6 µg/L	5017.6 ppb	07:58:05
1	Mg 279.077 IEC†	571.3	560.7	5234.6 µg/L	5234.6 ppb	07:58:25
1	Na 589.592 Radial†	3791.6	3296.6	1100.2 µg/L	1100.2 ppb	07:58:05
1	Sr 421.552†	4602.6	4571.9	49.899 µg/L	49.899 ppb	07:58:05
1	Sc 361.383	1873554.9	1873554.9	99.497 %		07:59:29
1	Y 371.029	1351557.3	1351557.3	104.25 %		07:59:29
1	Ag 328.068†	-1621.4	-1041.8	-2.4490 µg/L	-2.4490 ppb	07:59:35
1	As 188.979†	8.4	8.2	22.169 µg/L	22.169 ppb	07:59:55
1	B 249.677†	731.0	459.3	-26.665 µg/L	-26.665 ppb	07:59:35
1	Ba 233.527†	10677.4	10762.0	301.51 µg/L	301.51 ppb	07:59:35
1	Be 313.107†	6399.9	9999.2	6.1518 µg/L	6.1518 ppb	07:59:35
1	Cd 226.502†	140.4	279.4	-2.1326 µg/L	-2.1326 ppb	07:59:55
1	Co 228.616†	487.0	507.2	22.680 µg/L	22.680 ppb	07:59:55
1	Cr 267.716†	5985.6	6049.6	140.46 µg/L	140.46 ppb	07:59:35
1	Cu 324.752†	4795.5	2117.4	28.520 µg/L	28.520 ppb	07:59:35
1	Mn 257.610†	750240.5	754301.0	2742.9 µg/L	2742.9 ppb	07:59:29
1	Mo 202.031†	106.0	116.2	16.214 µg/L	16.214 ppb	07:59:55
1	Ni 231.604†	1710.5	1421.6	84.214 µg/L	84.214 ppb	07:59:55
1	P 214.914†	182.4	156.0	289.21 µg/L	289.21 ppb	07:59:55
1	Pb 220.353†	293.8	205.3	57.274 µg/L	57.274 ppb	07:59:55
1	S 181.975 Axial†	38.6	24.8	119.85 µg/L	119.85 ppb	07:59:55
1	Sb 206.836†	24.6	1.9	0.0512 µg/L	0.0512 ppb	07:59:55
1	Se 196.026†	-34.0	-48.9	168.31 µg/L	168.31 ppb	07:59:55
1	SiO2†	84270.1	83367.5	19197 µg/L	19197 ppb	07:59:35
1	Si 251.611†	101695.2	101949.4	8953.3 µg/L	8953.3 ppb	07:59:35
1	Sn 189.927†	10.7	11.8	-3.5142 µg/L	-3.5142 ppb	07:59:55
1	Ti 334.940†	760254.2	764004.8	1940.0 µg/L	1940.0 ppb	07:59:29
1	Tl 190.801†	-49.2	-23.6	8.4877 µg/L	8.4877 ppb	07:59:55
1	U 409.014†	-1614.2	-1620.0	-163.49 µg/L	-163.49 ppb	07:59:29
1	V 292.402†	5667.6	5737.8	75.860 µg/L	75.860 ppb	07:59:35
1	Zn 213.857†	11733.9	11334.0	296.45 µg/L	296.45 ppb	07:59:35
2	Sc RADIAL	54589.0	54589.0	102 %		07:58:31
2	Al 396.153Radial†	53095.0	52204.1	38731 µg/L	38731 ppb	07:58:31
2	Ca 317.933Radial†	6240.1	5956.4	5761.2 µg/L	5761.2 ppb	07:58:51
2	Fe 238.204 Radial†	10550.4	10356.4	91281 µg/L	91281 ppb	07:58:51
2	K 766.490 Radial†	6631.6	6367.2	4788.9 µg/L	4788.9 ppb	07:58:31
2	Mg 279.077 IEC†	575.0	553.7	5169.4 µg/L	5169.4 ppb	07:58:51
2	Na 589.592 Radial†	3705.6	3141.8	1048.5 µg/L	1048.5 ppb	07:58:31
2	Sr 421.552†	4550.6	4435.5	48.410 µg/L	48.410 ppb	07:58:31
2	Sc 361.383	1893813.9	1893813.9	100.57 %		08:00:03
2	Y 371.029	1365111.6	1365111.6	105.29 %		08:00:03
2	Ag 328.068†	-1700.9	-1103.4	-3.0566 µg/L	-3.0566 ppb	08:00:08
2	As 188.979†	12.8	12.5	30.982 µg/L	30.982 ppb	08:00:29
2	B 249.677†	746.2	466.6	-25.553 µg/L	-25.553 ppb	08:00:08
2	Ba 233.527†	10866.8	10835.5	303.57 µg/L	303.57 ppb	08:00:08
2	Be 313.107†	6461.1	9991.3	6.1539 µg/L	6.1539 ppb	08:00:08
2	Cd 226.502†	141.7	279.2	-1.9711 µg/L	-1.9711 ppb	08:00:29
2	Co 228.616†	486.1	501.0	22.396 µg/L	22.396 ppb	08:00:29
2	Cr 267.716†	6046.8	6046.2	140.38 µg/L	140.38 ppb	08:00:08
2	Cu 324.752†	4852.9	2123.0	28.355 µg/L	28.355 ppb	08:00:08
2	Mn 257.610†	750838.0	746828.9	2715.7 µg/L	2715.7 ppb	08:00:03
2	Mo 202.031†	105.9	114.9	16.021 µg/L	16.021 ppb	08:00:29
2	Ni 231.604†	1745.6	1438.1	85.160 µg/L	85.160 ppb	08:00:29
2	P 214.914†	190.6	162.3	304.09 µg/L	304.09 ppb	08:00:29
2	Pb 220.353†	306.4	214.6	59.916 µg/L	59.916 ppb	08:00:29

2	S 181.975 Axial†	34.0	19.8	95.659 µg/L	95.659 ppb	08:00:29
2	Sb 206.836†	32.3	9.3	7.5902 µg/L	7.5902 ppb	08:00:29
2	Se 196.026†	-36.4	-50.9	161.03 µg/L	161.03 ppb	08:00:29
2	SiO2†	84664.4	82853.5	19079 µg/L	19079 ppb	08:00:08
2	Si 251.611†	102070.1	101228.7	8890.0 µg/L	8890.0 ppb	08:00:08
2	Sn 189.927†	4.6	5.7	-6.3786 µg/L	-6.3786 ppb	08:00:29
2	Ti 334.940†	760628.9	756203.6	1920.2 µg/L	1920.2 ppb	08:00:03
2	Tl 190.801†	-48.7	-22.7	9.3059 µg/L	9.3059 ppb	08:00:29
2	U 409.014†	-1621.6	-1610.1	-162.36 µg/L	-162.36 ppb	08:00:03
2	V 292.402†	5746.1	5754.9	75.878 µg/L	75.878 ppb	08:00:08
2	Zn 213.857†	11912.2	11385.1	297.88 µg/L	297.88 ppb	08:00:08
3	Sc RADIAL	53721.6	53721.6	100 %		07:58:57
3	Al 396.153Radial†	53506.5	53457.8	39661 µg/L	39661 ppb	07:58:57
3	Ca 317.933Radial†	6319.9	6135.1	5934.1 µg/L	5934.1 ppb	07:59:17
3	Fe 238.204 Radial†	10691.7	10664.9	94000 µg/L	94000 ppb	07:59:17
3	K 766.490 Radial†	6663.0	6503.7	4891.6 µg/L	4891.6 ppb	07:58:57
3	Mg 279.077 IEC†	577.8	565.7	5280.3 µg/L	5280.3 ppb	07:59:17
3	Na 589.592 Radial†	3736.5	3231.5	1078.5 µg/L	1078.5 ppb	07:58:57
3	Sr 421.552†	4593.7	4550.8	49.669 µg/L	49.669 ppb	07:58:57
3	Sc 361.383	1857533.6	1857533.6	98.646 %		08:00:36
3	Y 371.029	1341211.1	1341211.1	103.45 %		08:00:36
3	Ag 328.068†	-1632.2	-1066.8	-2.5801 µg/L	-2.5801 ppb	08:00:42
3	As 188.979†	10.1	10.0	26.031 µg/L	26.031 ppb	08:01:02
3	B 249.677†	758.4	493.3	-25.718 µg/L	-25.718 ppb	08:00:42
3	Ba 233.527†	10683.5	10860.7	304.27 µg/L	304.27 ppb	08:00:42
3	Be 313.107†	6288.2	9941.4	6.1119 µg/L	6.1119 ppb	08:00:42
3	Cd 226.502†	122.7	262.7	-2.7696 µg/L	-2.7696 ppb	08:01:02
3	Co 228.616†	452.6	476.5	21.062 µg/L	21.062 ppb	08:01:02
3	Cr 267.716†	5938.1	6053.3	140.55 µg/L	140.55 ppb	08:00:42
3	Cu 324.752†	4851.3	2215.5	29.416 µg/L	29.416 ppb	08:00:42
3	Mn 257.610†	746505.8	757018.6	2752.9 µg/L	2752.9 ppb	08:00:36
3	Mo 202.031†	99.4	110.4	15.634 µg/L	15.634 ppb	08:01:02
3	Ni 231.604†	1642.3	1367.3	81.061 µg/L	81.061 ppb	08:01:02
3	P 214.914†	178.1	153.3	281.75 µg/L	281.75 ppb	08:01:02
3	Pb 220.353†	284.5	198.4	55.255 µg/L	55.255 ppb	08:01:02
3	S 181.975 Axial†	39.4	25.9	125.50 µg/L	125.50 ppb	08:01:02
3	Sb 206.836†	26.6	4.1	2.2530 µg/L	2.2530 ppb	08:01:02
3	Se 196.026†	-29.4	-44.5	178.63 µg/L	178.63 ppb	08:01:02
3	SiO2†	81564.5	81355.4	18734 µg/L	18734 ppb	08:00:42
3	Si 251.611†	98371.2	99461.4	8734.8 µg/L	8734.8 ppb	08:00:42
3	Sn 189.927†	6.7	7.9	-5.5419 µg/L	-5.5419 ppb	08:01:02
3	Ti 334.940†	753866.2	764119.6	1940.3 µg/L	1940.3 ppb	08:00:36
3	Tl 190.801†	-42.6	-17.4	17.932 µg/L	17.932 ppb	08:01:02
3	U 409.014†	-1677.6	-1698.3	-170.93 µg/L	-170.93 ppb	08:00:36
3	V 292.402†	5624.3	5743.0	76.052 µg/L	76.052 ppb	08:00:42
3	Zn 213.857†	11733.5	11435.3	299.10 µg/L	299.10 ppb	08:00:42

Mean Data: 244628007|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1874967.5	99.572 %	0.9655			0.97%
Sc RADIAL	53962.9	101 %	1.0			1.01%
Y 371.029	1352626.7	104.33 %	0.924			0.89%
Ag 328.068†	-1070.7	-2.6952 µg/L	0.31974	-2.6952 ppb	0.31974	11.86%
Al 396.153Radial†	53215.2	39481 µg/L	678.3	39481 ppb	678.3	1.72%
As 188.979†	10.3	26.394 µg/L	4.4175	26.394 ppb	4.4175	16.74%
B 249.677†	473.1	-25.979 µg/L	0.5998	-25.979 ppb	0.5998	2.31%
Ba 233.527†	10819.4	303.12 µg/L	1.437	303.12 ppb	1.437	0.47%
Be 313.107†	9977.3	6.1392 µg/L	0.02367	6.1392 ppb	0.02367	0.39%
Ca 317.933Radial†	6050.7	5852.5 µg/L	86.84	5852.5 ppb	86.84	1.48%
Cd 226.502†	273.8	-2.2911 µg/L	0.42220	-2.2911 ppb	0.42220	18.43%
Co 228.616†	494.9	22.046 µg/L	0.8636	22.046 ppb	0.8636	3.92%
Cr 267.716†	6049.7	140.46 µg/L	0.084	140.46 ppb	0.084	0.06%
Cu 324.752†	2152.0	28.764 µg/L	0.5711	28.764 ppb	0.5711	1.99%
Fe 238.204 Radial†	10515.2	92681 µg/L	1361.3	92681 ppb	1361.3	1.47%
K 766.490 Radial†	6514.1	4899.4 µg/L	114.57	4899.4 ppb	114.57	2.34%
Mg 279.077 IEC†	560.0	5228.1 µg/L	55.73	5228.1 ppb	55.73	1.07%
Mn 257.610†	752716.2	2737.2 µg/L	19.28	2737.2 ppb	19.28	0.70%
Mo 202.031†	113.8	15.956 µg/L	0.2952	15.956 ppb	0.2952	1.85%
Na 589.592 Radial†	3223.3	1075.7 µg/L	25.95	1075.7 ppb	25.95	2.41%

Ni 231.604†	1409.0	83.478 µg/L	2.1464	83.478 ppb	2.1464	2.57%
P 214.914†	157.2	291.68 µg/L	11.376	291.68 ppb	11.376	3.90%
Pb 220.353†	206.1	57.482 µg/L	2.3378	57.482 ppb	2.3378	4.07%
S 181.975 Axial†	23.5	113.67 µg/L	15.852	113.67 ppb	15.852	13.95%
Sb 206.836†	5.1	3.2981 µg/L	3.87667	3.2981 ppb	3.87667	117.54%
Se 196.026†	-48.1	169.33 µg/L	8.843	169.33 ppb	8.843	5.22%
SiO2†	82525.5	19004 µg/L	240.7	19004 ppb	240.7	1.27%
Si 251.611†	100879.8	8859.4 µg/L	112.43	8859.4 ppb	112.43	1.27%
Sn 189.927†	8.5	-5.1449 µg/L	1.47285	-5.1449 ppb	1.47285	28.63%
Sr 421.552†	4519.4	49.326 µg/L	0.8015	49.326 ppb	0.8015	1.62%
Ti 334.940†	761442.6	1933.5 µg/L	11.52	1933.5 ppb	11.52	0.60%
Tl 190.801†	-21.2	11.909 µg/L	5.2327	11.909 ppb	5.2327	43.94%
U 409.014†	-1642.8	-165.59 µg/L	4.655	-165.59 ppb	4.655	2.81%
V 292.402†	5745.2	75.930 µg/L	0.1062	75.930 ppb	0.1062	0.14%
Zn 213.857†	11384.8	297.81 µg/L	1.324	297.81 ppb	1.324	0.44%

Sequence No.: 19

Sample ID: 244628008|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 314

Date Collected: 2/9/2010 08:01:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628008|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53499.9	53499.9	99.7 %		08:01:44
1	Al 396.153Radial†	89652.4	89930.9	66721 µg/L	66721 ppb	08:01:44
1	Ca 317.933Radial†	16576.5	16447.9	15909 µg/L	15909 ppb	08:01:44
1	Fe 238.204 Radial†	11056.6	11075.1	97616 µg/L	97616 ppb	08:02:04
1	K 766.490 Radial†	11855.0	11738.5	8828.8 µg/L	8828.8 ppb	08:01:44
1	Mg 279.077 IEC†	1155.4	1147.4	10809 µg/L	10809 ppb	08:02:04
1	Na 589.592 Radial†	3740.9	3251.3	1085.1 µg/L	1085.1 ppb	08:01:44
1	Sr 421.552†	11946.4	11944.0	130.36 µg/L	130.36 ppb	08:01:44
1	Sc 361.383	1903841.8	1903841.8	101.11 %		08:03:08
1	Y 371.029	1373070.1	1373070.1	105.90 %		08:03:08
1	Ag 328.068†	-1776.2	-1169.0	-2.8855 µg/L	-2.8855 ppb	08:03:14
1	As 188.979†	12.2	11.8	29.470 µg/L	29.470 ppb	08:03:34
1	B 249.677†	1117.1	829.4	-11.895 µg/L	-11.895 ppb	08:03:14
1	Ba 233.527†	15719.2	15577.9	436.47 µg/L	436.47 ppb	08:03:14
1	Be 313.107†	10808.9	14257.6	8.9328 µg/L	8.9328 ppb	08:03:14
1	Cd 226.502†	151.1	287.8	-2.4380 µg/L	-2.4380 ppb	08:03:34
1	Co 228.616†	491.2	503.6	21.641 µg/L	21.641 ppb	08:03:34
1	Cr 267.716†	5214.6	5191.3	120.57 µg/L	120.57 ppb	08:03:14
1	Cu 324.752†	6327.3	3555.8	39.810 µg/L	39.810 ppb	08:03:14
1	Mn 257.610†	581566.1	575475.9	2096.0 µg/L	2096.0 ppb	08:03:08
1	Mo 202.031†	52.1	61.2	10.399 µg/L	10.399 ppb	08:03:34
1	Ni 231.604†	1644.5	1328.9	78.863 µg/L	78.863 ppb	08:03:34
1	P 214.914†	271.8	241.6	486.09 µg/L	486.09 ppb	08:03:34
1	Pb 220.353†	331.6	237.9	67.824 µg/L	67.824 ppb	08:03:34
1	S 181.975 Axial†	138.6	123.1	595.40 µg/L	595.40 ppb	08:03:34
1	Sb 206.836†	22.0	-1.1	-3.8067 µg/L	-3.8067 ppb	08:03:34
1	Se 196.026†	-36.4	-50.7	170.89 µg/L	170.89 ppb	08:03:34
1	SiO2†	107624.9	105119.5	24206 µg/L	24206 ppb	08:03:14
1	Si 251.611†	130694.4	129005.5	11329 µg/L	11329 ppb	08:03:14
1	Sn 189.927†	4.1	5.2	-6.6909 µg/L	-6.6909 ppb	08:03:34
1	Ti 334.940†	933235.2	922938.6	2343.4 µg/L	2343.4 ppb	08:03:08
1	Tl 190.801†	-50.5	-24.1	10.444 µg/L	10.444 ppb	08:03:34
1	U 409.014†	-1759.9	-1738.4	-175.76 µg/L	-175.76 ppb	08:03:08
1	V 292.402†	10140.0	10070.6	125.17 µg/L	125.17 ppb	08:03:14
1	Zn 213.857†	9842.7	9275.8	241.15 µg/L	241.15 ppb	08:03:14
2	Sc RADIAL	54409.2	54409.2	101 %		08:02:10
2	Al 396.153Radial†	87828.9	86630.0	64272 µg/L	64272 ppb	08:02:10
2	Ca 317.933Radial†	16190.9	15789.7	15272 µg/L	15272 ppb	08:02:10
2	Fe 238.204 Radial†	11069.3	10902.4	96094 µg/L	96094 ppb	08:02:30
2	K 766.490 Radial†	11754.3	11440.5	8604.7 µg/L	8604.7 ppb	08:02:10
2	Mg 279.077 IEC†	1157.9	1130.4	10650 µg/L	10650 ppb	08:02:30
2	Na 589.592 Radial†	3767.9	3215.2	1073.0 µg/L	1073.0 ppb	08:02:10
2	Sr 421.552†	11695.3	11496.2	125.47 µg/L	125.47 ppb	08:02:10
2	Sc 361.383	1869167.1	1869167.1	99.264 %		08:03:42
2	Y 371.029	1348773.7	1348773.7	104.03 %		08:03:42
2	Ag 328.068†	-1808.8	-1234.4	-3.5091 µg/L	-3.5091 ppb	08:03:47
2	As 188.979†	12.0	11.8	29.387 µg/L	29.387 ppb	08:04:08
2	B 249.677†	1112.9	845.7	-10.334 µg/L	-10.334 ppb	08:03:47
2	Ba 233.527†	15748.3	15895.6	445.37 µg/L	445.37 ppb	08:03:47
2	Be 313.107†	10924.8	14572.8	9.1316 µg/L	9.1316 ppb	08:03:47
2	Cd 226.502†	158.7	298.2	-1.9549 µg/L	-1.9549 ppb	08:04:08
2	Co 228.616†	511.1	532.7	23.072 µg/L	23.072 ppb	08:04:08
2	Cr 267.716†	5264.6	5337.4	123.96 µg/L	123.96 ppb	08:03:47
2	Cu 324.752†	6283.8	3628.0	40.131 µg/L	40.131 ppb	08:03:47
2	Mn 257.610†	580386.4	584958.1	2130.1 µg/L	2130.1 ppb	08:03:42
2	Mo 202.031†	49.7	59.7	10.176 µg/L	10.176 ppb	08:04:08
2	Ni 231.604†	1651.5	1366.2	81.018 µg/L	81.018 ppb	08:04:08
2	P 214.914†	268.4	243.2	490.25 µg/L	490.25 ppb	08:04:08
2	Pb 220.353†	332.4	244.8	69.718 µg/L	69.718 ppb	08:04:08

2	S 181.975 Axial†	136.3	123.2	596.29 µg/L	596.29 ppb	08:04:08
2	Sb 206.836†	37.7	15.1	12.846 µg/L	12.846 ppb	08:04:08
2	Se 196.026†	-26.2	-41.1	182.54 µg/L	182.54 ppb	08:04:08
2	SiO2†	104715.9	104163.7	23986 µg/L	23986 ppb	08:03:47
2	Si 251.611†	127022.6	127704.5	11215 µg/L	11215 ppb	08:03:47
2	Sn 189.927†	9.8	11.0	-3.6797 µg/L	-3.6797 ppb	08:04:08
2	Ti 334.940†	935065.9	941905.9	2391.5 µg/L	2391.5 ppb	08:03:42
2	Tl 190.801†	-49.4	-24.0	10.921 µg/L	10.921 ppb	08:04:08
2	U 409.014†	-1721.3	-1731.8	-174.89 µg/L	-174.89 ppb	08:03:42
2	V 292.402†	10222.6	10339.9	128.03 µg/L	128.03 ppb	08:03:47
2	Zn 213.857†	9819.5	9433.1	245.41 µg/L	245.41 ppb	08:03:47
3	Sc RADIAL	54200.0	54200.0	101 %		08:02:35
3	Al 396.153Radial†	89133.8	88256.0	65478 µg/L	65478 ppb	08:02:35
3	Ca 317.933Radial†	16399.5	16057.9	15532 µg/L	15532 ppb	08:02:35
3	Fe 238.204 Radial†	11213.2	11086.9	97720 µg/L	97720 ppb	08:02:56
3	K 766.490 Radial†	11831.3	11561.5	8695.7 µg/L	8695.7 ppb	08:02:35
3	Mg 279.077 IEC†	1174.8	1151.5	10849 µg/L	10849 ppb	08:02:56
3	Na 589.592 Radial†	3768.4	3230.0	1078.0 µg/L	1078.0 ppb	08:02:35
3	Sr 421.552†	11898.7	11742.0	128.15 µg/L	128.15 ppb	08:02:35
3	Sc 361.383	1855130.6	1855130.6	98.519 %		08:04:15
3	Y 371.029	1339986.1	1339986.1	103.35 %		08:04:15
3	Ag 328.068†	-1689.2	-1126.8	-2.5381 µg/L	-2.5381 ppb	08:04:21
3	As 188.979†	17.5	17.5	41.273 µg/L	41.273 ppb	08:04:41
3	B 249.677†	1080.4	821.2	-12.338 µg/L	-12.338 ppb	08:04:21
3	Ba 233.527†	15110.4	15368.2	430.59 µg/L	430.59 ppb	08:04:21
3	Be 313.107†	10181.4	13901.4	8.6726 µg/L	8.6726 ppb	08:04:21
3	Cd 226.502†	132.6	273.0	-2.8915 µg/L	-2.8915 ppb	08:04:41
3	Co 228.616†	461.6	486.3	20.648 µg/L	20.648 ppb	08:04:41
3	Cr 267.716†	4951.3	5059.5	117.51 µg/L	117.51 ppb	08:04:21
3	Cu 324.752†	6133.0	3522.9	39.581 µg/L	39.581 ppb	08:04:21
3	Mn 257.610†	576369.1	585304.3	2131.5 µg/L	2131.5 ppb	08:04:15
3	Mo 202.031†	35.2	45.4	8.6755 µg/L	8.6755 ppb	08:04:41
3	Ni 231.604†	1554.2	1280.1	76.011 µg/L	76.011 ppb	08:04:41
3	P 214.914†	260.4	237.1	475.39 µg/L	475.39 ppb	08:04:41
3	Pb 220.353†	314.3	229.0	65.207 µg/L	65.207 ppb	08:04:41
3	S 181.975 Axial†	135.5	123.5	597.52 µg/L	597.52 ppb	08:04:41
3	Sb 206.836†	26.5	4.0	1.5289 µg/L	1.5289 ppb	08:04:41
3	Se 196.026†	-25.4	-40.5	187.74 µg/L	187.74 ppb	08:04:41
3	SiO2†	98202.2	98350.3	22648 µg/L	22648 ppb	08:04:21
3	Si 251.611†	118933.2	120461.7	10579 µg/L	10579 ppb	08:04:21
3	Sn 189.927†	1.4	2.5	-7.9931 µg/L	-7.9931 ppb	08:04:41
3	Ti 334.940†	924354.3	938160.7	2382.0 µg/L	2382.0 ppb	08:04:15
3	Tl 190.801†	-45.5	-20.4	16.493 µg/L	16.493 ppb	08:04:41
3	U 409.014†	-1726.7	-1750.4	-176.86 µg/L	-176.86 ppb	08:04:15
3	V 292.402†	9719.8	9907.5	123.32 µg/L	123.32 ppb	08:04:21
3	Zn 213.857†	9438.2	9120.9	237.04 µg/L	237.04 ppb	08:04:21

Mean Data: 244628008|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1876046.5	99.630 %	1.3316			1.34%
Sc RADIAL	54036.4	101 %	0.9			0.88%
Y 371.029	1353943.3	104.43 %	1.322			1.27%
Ag 328.068†	-1176.7	-2.9776 µg/L	0.49199	-2.9776 ppb	0.49199	16.52%
Al 396.153Radial†	88272.3	65490 µg/L	1224.5	65490 ppb	1224.5	1.87%
As 188.979†	13.7	33.377 µg/L	6.8386	33.377 ppb	6.8386	20.49%
B 249.677†	832.1	-11.522 µg/L	1.0528	-11.522 ppb	1.0528	9.14%
Ba 233.527†	15613.9	437.48 µg/L	7.441	437.48 ppb	7.441	1.70%
Be 313.107†	14244.0	8.9123 µg/L	0.23022	8.9123 ppb	0.23022	2.58%
Ca 317.933Radial†	16098.5	15571 µg/L	320.1	15571 ppb	320.1	2.06%
Cd 226.502†	286.3	-2.4281 µg/L	0.46839	-2.4281 ppb	0.46839	19.29%
Co 228.616†	507.5	21.787 µg/L	1.2186	21.787 ppb	1.2186	5.59%
Cr 267.716†	5196.1	120.68 µg/L	3.228	120.68 ppb	3.228	2.67%
Cu 324.752†	3568.9	39.841 µg/L	0.2763	39.841 ppb	0.2763	0.69%
Fe 238.204 Radial†	11021.5	97143 µg/L	910.4	97143 ppb	910.4	0.94%
K 766.490 Radial†	11580.2	8709.7 µg/L	112.74	8709.7 ppb	112.74	1.29%
Mg 279.077 IEC†	1143.1	10769 µg/L	105.5	10769 ppb	105.5	0.98%
Mn 257.610†	581912.8	2119.2 µg/L	20.14	2119.2 ppb	20.14	0.95%
Mo 202.031†	55.5	9.7501 µg/L	0.93728	9.7501 ppb	0.93728	9.61%
Na 589.592 Radial†	3232.2	1078.7 µg/L	6.06	1078.7 ppb	6.06	0.56%

Ni 231.604†	1325.1	78.631 µg/L	2.5112	78.631 ppb	2.5112	3.19%
P 214.914†	240.6	483.91 µg/L	7.667	483.91 ppb	7.667	1.58%
Pb 220.353†	237.2	67.583 µg/L	2.2651	67.583 ppb	2.2651	3.35%
S 181.975 Axial†	123.3	596.40 µg/L	1.066	596.40 ppb	1.066	0.18%
Sb 206.836†	6.0	3.5226 µg/L	8.50333	3.5226 ppb	8.50333	241.39%
Se 196.026†	-44.1	180.39 µg/L	8.629	180.39 ppb	8.629	4.78%
SiO2†	102544.5	23613 µg/L	843.6	23613 ppb	843.6	3.57%
Si 251.611†	125723.9	11041 µg/L	404.3	11041 ppb	404.3	3.66%
Sn 189.927†	6.2	-6.1212 µg/L	2.21240	-6.1212 ppb	2.21240	36.14%
Sr 421.552†	11727.4	127.99 µg/L	2.448	127.99 ppb	2.448	1.91%
Ti 334.940†	934335.1	2372.3 µg/L	25.51	2372.3 ppb	25.51	1.08%
Tl 190.801†	-22.8	12.619 µg/L	3.3630	12.619 ppb	3.3630	26.65%
U 409.014†	-1740.2	-175.84 µg/L	0.986	-175.84 ppb	0.986	0.56%
V 292.402†	10106.0	125.51 µg/L	2.374	125.51 ppb	2.374	1.89%
Zn 213.857†	9276.6	241.20 µg/L	4.186	241.20 ppb	4.186	1.74%

Sequence No.: 20

Sample ID: 244628009|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 315

Date Collected: 2/9/2010 08:04:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628009|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54379.5	54379.5	101 %		08:05:23
1	Al 396.153Radial†	68199.4	67308.7	49937 µg/L	49937 ppb	08:05:23
1	Ca 317.933Radial†	12020.5	11683.5	11301 µg/L	11301 ppb	08:05:43
1	Fe 238.204 Radial†	10493.2	10339.8	91135 µg/L	91135 ppb	08:05:43
1	K 766.490 Radial†	8594.6	8329.2	6264.6 µg/L	6264.6 ppb	08:05:23
1	Mg 279.077 IEC†	995.1	970.4	9133.2 µg/L	9133.2 ppb	08:05:43
1	Na 589.592 Radial†	2715.6	2179.0	727.20 µg/L	727.20 ppb	08:05:23
1	Sr 421.552†	7601.6	7463.1	81.454 µg/L	81.454 ppb	08:05:23
1	Sc 361.383	1912018.6	1912018.6	101.54 %		08:06:47
1	Y 371.029	1414395.7	1414395.7	109.09 %		08:06:47
1	Ag 328.068†	-1684.5	-1071.2	-2.7439 µg/L	-2.7439 ppb	08:06:53
1	As 188.979†	10.4	10.0	25.449 µg/L	25.449 ppb	08:07:13
1	B 249.677†	848.6	560.3	-20.976 µg/L	-20.976 ppb	08:06:53
1	Ba 233.527†	11543.8	11399.3	319.37 µg/L	319.37 ppb	08:06:53
1	Be 313.107†	14822.9	18165.1	11.400 µg/L	11.400 ppb	08:06:53
1	Cd 226.502†	171.1	306.9	-1.1058 µg/L	-1.1058 ppb	08:07:13
1	Co 228.616†	348.8	361.3	12.913 µg/L	12.913 ppb	08:07:13
1	Cr 267.716†	9117.3	9012.8	209.25 µg/L	209.25 ppb	08:06:53
1	Cu 324.752†	8587.4	5754.8	55.137 µg/L	55.137 ppb	08:06:53
1	Mn 257.610†	669643.6	659757.8	2400.3 µg/L	2400.3 ppb	08:06:47
1	Mo 202.031†	95.7	103.9	14.808 µg/L	14.808 ppb	08:07:13
1	Ni 231.604†	2284.8	1952.6	115.22 µg/L	115.22 ppb	08:07:13
1	P 214.914†	307.9	276.0	562.78 µg/L	562.78 ppb	08:07:13
1	Pb 220.353†	325.5	230.5	65.027 µg/L	65.027 ppb	08:07:13
1	S 181.975 Axial†	92.1	76.7	371.01 µg/L	371.01 ppb	08:07:13
1	Sb 206.836†	35.0	11.6	8.7163 µg/L	8.7163 ppb	08:07:13
1	Se 196.026†	-27.1	-41.4	171.00 µg/L	171.00 ppb	08:07:13
1	SiO2†	92967.6	90229.4	20778 µg/L	20778 ppb	08:06:53
1	Si 251.611†	112394.2	110430.0	9698.1 µg/L	9698.1 ppb	08:06:53
1	Sn 189.927†	-15.7	-14.4	-15.718 µg/L	-15.718 ppb	08:07:13
1	Ti 334.940†	1174028.1	1156132.3	2935.7 µg/L	2935.7 ppb	08:06:47
1	Tl 190.801†	-61.2	-34.4	-0.3301 µg/L	-0.3301 ppb	08:07:13
1	U 409.014†	-1848.8	-1818.4	-182.00 µg/L	-182.00 ppb	08:06:47
1	V 292.402†	6516.6	6459.4	83.931 µg/L	83.931 ppb	08:06:53
1	Zn 213.857†	17699.4	16971.8	446.13 µg/L	446.13 ppb	08:06:53
2	Sc RADIAL	54527.2	54527.2	102 %		08:05:49
2	Al 396.153Radial†	68324.2	67249.3	49893 µg/L	49893 ppb	08:05:49
2	Ca 317.933Radial†	12075.8	11705.8	11322 µg/L	11322 ppb	08:06:09
2	Fe 238.204 Radial†	10543.7	10361.5	91326 µg/L	91326 ppb	08:06:09
2	K 766.490 Radial†	8598.1	8309.6	6249.9 µg/L	6249.9 ppb	08:05:49
2	Mg 279.077 IEC†	1000.0	972.6	9153.6 µg/L	9153.6 ppb	08:06:09
2	Na 589.592 Radial†	2661.1	2118.1	706.89 µg/L	706.89 ppb	08:05:49
2	Sr 421.552†	7620.6	7461.5	81.437 µg/L	81.437 ppb	08:05:49
2	Sc 361.383	1899464.0	1899464.0	100.87 %		08:07:21
2	Y 371.029	1405955.1	1405955.1	108.44 %		08:07:21
2	Ag 328.068†	-1672.9	-1070.7	-2.7159 µg/L	-2.7159 ppb	08:07:27
2	As 188.979†	9.7	9.4	24.317 µg/L	24.317 ppb	08:07:47
2	B 249.677†	883.8	600.7	-19.179 µg/L	-19.179 ppb	08:07:27
2	Ba 233.527†	11677.2	11606.7	325.18 µg/L	325.18 ppb	08:07:27
2	Be 313.107†	14903.7	18341.7	11.504 µg/L	11.504 ppb	08:07:27
2	Cd 226.502†	160.8	297.7	-1.3962 µg/L	-1.3962 ppb	08:07:47
2	Co 228.616†	353.9	368.6	13.204 µg/L	13.204 ppb	08:07:47
2	Cr 267.716†	9171.6	9126.0	211.87 µg/L	211.87 ppb	08:07:27
2	Cu 324.752†	8618.3	5841.4	55.803 µg/L	55.803 ppb	08:07:27
2	Mn 257.610†	675067.1	669493.2	2435.6 µg/L	2435.6 ppb	08:07:21
2	Mo 202.031†	98.3	107.2	15.175 µg/L	15.175 ppb	08:07:47
2	Ni 231.604†	2282.0	1964.7	115.93 µg/L	115.93 ppb	08:07:47
2	P 214.914†	312.8	282.8	578.17 µg/L	578.17 ppb	08:07:47
2	Pb 220.353†	325.2	232.4	65.563 µg/L	65.563 ppb	08:07:47

2	S 181.975 Axial†	89.2	74.4	359.79 µg/L	359.79 ppb	08:07:47
2	Sb 206.836†	28.8	5.7	2.6197 µg/L	2.6197 ppb	08:07:47
2	Se 196.026†	-28.2	-42.6	169.45 µg/L	169.45 ppb	08:07:47
2	SiO2†	93293.7	91157.8	20991 µg/L	20991 ppb	08:07:27
2	Si 251.611†	112836.9	111600.4	9800.8 µg/L	9800.8 ppb	08:07:27
2	Sn 189.927†	-10.5	-9.3	-13.237 µg/L	-13.237 ppb	08:07:47
2	Ti 334.940†	1184361.5	1174018.3	2981.1 µg/L	2981.1 ppb	08:07:21
2	Tl 190.801†	-53.7	-27.5	10.624 µg/L	10.624 ppb	08:07:47
2	U 409.014†	-1901.1	-1882.4	-187.96 µg/L	-187.96 ppb	08:07:21
2	V 292.402†	6630.1	6614.3	85.703 µg/L	85.703 ppb	08:07:27
2	Zn 213.857†	17864.4	17250.6	453.53 µg/L	453.53 ppb	08:07:27
3	Sc RADIAL	53741.7	53741.7	100 %		08:06:15
3	Al 396.153Radial†	68814.0	68721.0	50985 µg/L	50985 ppb	08:06:15
3	Ca 317.933Radial†	12206.2	12009.7	11616 µg/L	11616 ppb	08:06:35
3	Fe 238.204 Radial†	10664.9	10634.1	93729 µg/L	93729 ppb	08:06:35
3	K 766.490 Radial†	8648.6	8483.8	6380.9 µg/L	6380.9 ppb	08:06:15
3	Mg 279.077 IEC†	1011.7	998.7	9399.7 µg/L	9399.7 ppb	08:06:35
3	Na 589.592 Radial†	2678.9	2174.1	725.58 µg/L	725.58 ppb	08:06:15
3	Sr 421.552†	7669.8	7620.2	83.169 µg/L	83.169 ppb	08:06:15
3	Sc 361.383	1916609.2	1916609.2	101.78 %		08:07:55
3	Y 371.029	1414297.8	1414297.8	109.08 %		08:07:55
3	Ag 328.068†	-1686.6	-1069.2	-2.5818 µg/L	-2.5818 ppb	08:08:00
3	As 188.979†	7.3	6.9	19.268 µg/L	19.268 ppb	08:08:21
3	B 249.677†	848.0	557.7	-22.470 µg/L	-22.470 ppb	08:08:00
3	Ba 233.527†	11163.8	10998.8	308.15 µg/L	308.15 ppb	08:08:00
3	Be 313.107†	14101.4	17421.2	10.913 µg/L	10.913 ppb	08:08:00
3	Cd 226.502†	151.1	286.8	-2.0010 µg/L	-2.0010 ppb	08:08:21
3	Co 228.616†	319.6	331.7	11.493 µg/L	11.493 ppb	08:08:21
3	Cr 267.716†	8692.0	8573.4	199.05 µg/L	199.05 ppb	08:08:00
3	Cu 324.752†	8328.3	5480.1	53.470 µg/L	53.470 ppb	08:08:00
3	Mn 257.610†	657944.1	646683.7	2353.3 µg/L	2353.3 ppb	08:07:55
3	Mo 202.031†	92.5	100.6	14.548 µg/L	14.548 ppb	08:08:21
3	Ni 231.604†	2138.3	1803.3	106.53 µg/L	106.53 ppb	08:08:21
3	P 214.914†	294.9	262.5	530.61 µg/L	530.61 ppb	08:08:21
3	Pb 220.353†	322.9	227.2	64.060 µg/L	64.060 ppb	08:08:21
3	S 181.975 Axial†	80.2	64.7	313.21 µg/L	313.21 ppb	08:08:21
3	Sb 206.836†	29.7	6.3	3.3397 µg/L	3.3397 ppb	08:08:21
3	Se 196.026†	-24.0	-38.3	182.72 µg/L	182.72 ppb	08:08:21
3	SiO2†	86743.0	83894.6	19319 µg/L	19319 ppb	08:08:00
3	Si 251.611†	104709.1	102614.5	9011.7 µg/L	9011.7 ppb	08:08:00
3	Sn 189.927†	-17.2	-15.7	-16.633 µg/L	-16.633 ppb	08:08:21
3	Ti 334.940†	1150282.4	1130033.4	2869.4 µg/L	2869.4 ppb	08:07:55
3	Tl 190.801†	-49.3	-22.6	16.905 µg/L	16.905 ppb	08:08:21
3	U 409.014†	-1879.3	-1844.1	-184.76 µg/L	-184.76 ppb	08:07:55
3	V 292.402†	6290.6	6221.9	81.531 µg/L	81.531 ppb	08:08:00
3	Zn 213.857†	17090.7	16332.0	429.01 µg/L	429.01 ppb	08:08:00

Mean Data: 244628009|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1909363.9	101.40 %	0.471			0.46%
Sc RADIAL	54216.2	101 %	0.8			0.77%
Y 371.029	1411549.5	108.87 %	0.374			0.34%
Ag 328.068†	-1070.4	-2.6805 µg/L	0.08665	-2.6805 ppb	0.08665	3.23%
Al 396.153Radial†	67759.7	50272 µg/L	618.1	50272 ppb	618.1	1.23%
As 188.979†	8.8	23.011 µg/L	3.2906	23.011 ppb	3.2906	14.30%
B 249.677†	572.9	-20.875 µg/L	1.6474	-20.875 ppb	1.6474	7.89%
Ba 233.527†	11334.9	317.57 µg/L	8.659	317.57 ppb	8.659	2.73%
Be 313.107†	17976.0	11.272 µg/L	0.3159	11.272 ppb	0.3159	2.80%
Ca 317.933Radial†	11799.7	11413 µg/L	176.3	11413 ppb	176.3	1.54%
Cd 226.502†	297.1	-1.5010 µg/L	0.45674	-1.5010 ppb	0.45674	30.43%
Co 228.616†	353.9	12.536 µg/L	0.9151	12.536 ppb	0.9151	7.30%
Cr 267.716†	8904.1	206.72 µg/L	6.777	206.72 ppb	6.777	3.28%
Cu 324.752†	5692.1	54.803 µg/L	1.2015	54.803 ppb	1.2015	2.19%
Fe 238.204 Radial†	10445.1	92063 µg/L	1445.7	92063 ppb	1445.7	1.57%
K 766.490 Radial†	8374.2	6298.4 µg/L	71.75	6298.4 ppb	71.75	1.14%
Mg 279.077 IEC†	980.6	9228.8 µg/L	148.34	9228.8 ppb	148.34	1.61%
Mn 257.610†	658644.9	2396.4 µg/L	41.27	2396.4 ppb	41.27	1.72%
Mo 202.031†	103.9	14.844 µg/L	0.3153	14.844 ppb	0.3153	2.12%
Na 589.592 Radial†	2157.1	719.89 µg/L	11.291	719.89 ppb	11.291	1.57%

Ni 231.604†	1906.9	112.56 µg/L	5.231	112.56 ppb	5.231	4.65%
P 214.914†	273.8	557.18 µg/L	24.269	557.18 ppb	24.269	4.36%
Pb 220.353†	230.0	64.883 µg/L	0.7617	64.883 ppb	0.7617	1.17%
S 181.975 Axial†	71.9	348.00 µg/L	30.651	348.00 ppb	30.651	8.81%
Sb 206.836†	7.9	4.8919 µg/L	3.33153	4.8919 ppb	3.33153	68.10%
Se 196.026†	-40.8	174.39 µg/L	7.256	174.39 ppb	7.256	4.16%
SiO2†	88427.2	20363 µg/L	910.2	20363 ppb	910.2	4.47%
Si 251.611†	108215.0	9503.5 µg/L	429.03	9503.5 ppb	429.03	4.51%
Sn 189.927†	-13.1	-15.196 µg/L	1.7575	-15.196 ppb	1.7575	11.57%
Sr 421.552†	7515.0	82.020 µg/L	0.9950	82.020 ppb	0.9950	1.21%
Ti 334.940†	1153394.7	2928.7 µg/L	56.19	2928.7 ppb	56.19	1.92%
Tl 190.801†	-28.2	9.0662 µg/L	8.72251	9.0662 ppb	8.72251	96.21%
U 409.014†	-1848.3	-184.90 µg/L	2.981	-184.90 ppb	2.981	1.61%
V 292.402†	6431.8	83.722 µg/L	2.0937	83.722 ppb	2.0937	2.50%
Zn 213.857†	16851.5	442.89 µg/L	12.578	442.89 ppb	12.578	2.84%

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/9/2010 08:08:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53524.2	53524.2	99.8 %		08:09:07
1	Al 396.153Radial†	6186.6	6218.0	4603.3 µg/L	4603.3 ppb	08:09:07
1	Ca 317.933Radial†	4818.3	4653.0	4500.6 µg/L	4500.6 ppb	08:09:28
1	Fe 238.204 Radial†	543.2	530.8	4688.1 µg/L	4688.1 ppb	08:09:28
1	K 766.490 Radial†	6570.9	6435.9	4840.6 µg/L	4840.6 ppb	08:09:07
1	Mg 279.077 IEC†	505.4	495.2	4714.0 µg/L	4714.0 ppb	08:09:28
1	Na 589.592 Radial†	28492.0	28061.9	9365.3 µg/L	9365.3 ppb	08:09:07
1	Sr 421.552†	42942.9	43011.7	469.44 µg/L	469.44 ppb	08:09:07
1	Sc 361.383	1888446.2	1888446.2	100.29 %		08:10:31
1	Y 371.029	1293650.6	1293650.6	99.779 %		08:10:31
1	Ag 328.068†	56671.8	57096.8	481.33 µg/L	481.33 ppb	08:10:36
1	As 188.979†	231.9	231.0	479.73 µg/L	479.73 ppb	08:10:57
1	B 249.677†	10245.0	9940.1	463.88 µg/L	463.88 ppb	08:10:36
1	Ba 233.527†	16900.2	16882.3	473.65 µg/L	473.65 ppb	08:10:36
1	Be 313.107†	673605.4	675237.2	465.17 µg/L	465.17 ppb	08:10:31
1	Cd 226.502†	15848.0	15940.8	471.56 µg/L	471.56 ppb	08:10:36
1	Co 228.616†	9022.6	9014.4	474.30 µg/L	474.30 ppb	08:10:36
1	Cr 267.716†	20505.7	20480.5	475.68 µg/L	475.68 ppb	08:10:36
1	Cu 324.752†	67770.1	64873.1	479.40 µg/L	479.40 ppb	08:10:36
1	Mn 257.610†	127896.6	127799.1	463.11 µg/L	463.11 ppb	08:10:36
1	Mo 202.031†	4426.1	4423.0	483.27 µg/L	483.27 ppb	08:10:57
1	Ni 231.604†	8431.1	8109.3	473.18 µg/L	473.18 ppb	08:10:36
1	P 214.914†	1099.2	1068.8	2382.7 µg/L	2382.7 ppb	08:10:57
1	Pb 220.353†	1819.5	1724.2	490.99 µg/L	490.99 ppb	08:10:57
1	S 181.975 Axial†	215.0	200.3	969.36 µg/L	969.36 ppb	08:10:57
1	Sb 206.836†	509.4	485.1	498.27 µg/L	498.27 ppb	08:10:57
1	Se 196.026†	312.9	297.3	487.14 µg/L	487.14 ppb	08:10:57
1	SiO2†	23511.4	22115.6	5092.7 µg/L	5092.7 ppb	08:10:36
1	Si 251.611†	27503.4	27164.8	2385.6 µg/L	2385.6 ppb	08:10:36
1	Sn 189.927†	1009.3	1007.5	492.30 µg/L	492.30 ppb	08:10:57
1	Ti 334.940†	185620.4	184996.6	469.53 µg/L	469.53 ppb	08:10:31
1	Tl 190.801†	303.1	328.0	494.48 µg/L	494.48 ppb	08:10:57
1	U 409.014†	5078.0	5065.7	468.87 µg/L	468.87 ppb	08:10:36
1	V 292.402†	42254.0	42174.1	481.25 µg/L	481.25 ppb	08:10:36
1	Zn 213.857†	18361.7	17849.8	471.56 µg/L	471.56 ppb	08:10:36
2	Sc RADIAL	54038.9	54038.9	101 %		08:09:33
2	Al 396.153Radial†	6169.9	6142.5	4547.4 µg/L	4547.4 ppb	08:09:33
2	Ca 317.933Radial†	4840.8	4629.4	4477.7 µg/L	4477.7 ppb	08:09:54
2	Fe 238.204 Radial†	543.3	525.6	4643.1 µg/L	4643.1 ppb	08:09:54
2	K 766.490 Radial†	6540.6	6343.2	4770.9 µg/L	4770.9 ppb	08:09:33
2	Mg 279.077 IEC†	512.0	496.9	4730.2 µg/L	4730.2 ppb	08:09:54
2	Na 589.592 Radial†	28488.9	27786.8	9273.4 µg/L	9273.4 ppb	08:09:33
2	Sr 421.552†	42946.1	42604.8	465.00 µg/L	465.00 ppb	08:09:33
2	Sc 361.383	1892380.2	1892380.2	100.50 %		08:11:04
2	Y 371.029	1295344.3	1295344.3	99.910 %		08:11:04
2	Ag 328.068†	56842.4	57149.1	481.76 µg/L	481.76 ppb	08:11:09
2	As 188.979†	234.5	233.2	484.28 µg/L	484.28 ppb	08:11:30
2	B 249.677†	10312.4	9985.9	466.05 µg/L	466.05 ppb	08:11:09
2	Ba 233.527†	17002.3	16948.8	475.52 µg/L	475.52 ppb	08:11:09
2	Be 313.107†	676710.1	676930.3	466.34 µg/L	466.34 ppb	08:11:04
2	Cd 226.502†	15923.1	15982.7	472.81 µg/L	472.81 ppb	08:11:09
2	Co 228.616†	9065.7	9038.6	475.57 µg/L	475.57 ppb	08:11:09
2	Cr 267.716†	20571.2	20503.2	476.21 µg/L	476.21 ppb	08:11:09
2	Cu 324.752†	68102.9	65063.7	480.80 µg/L	480.80 ppb	08:11:09
2	Mn 257.610†	128418.8	128053.7	464.02 µg/L	464.02 ppb	08:11:09
2	Mo 202.031†	4377.5	4365.5	476.99 µg/L	476.99 ppb	08:11:30
2	Ni 231.604†	8472.5	8133.1	474.56 µg/L	474.56 ppb	08:11:09
2	P 214.914†	1082.3	1049.7	2339.2 µg/L	2339.2 ppb	08:11:30
2	Pb 220.353†	1779.5	1680.6	478.55 µg/L	478.55 ppb	08:11:30

2	S 181.975 Axial†	213.0	197.9	957.71 µg/L	957.71 ppb	08:11:30
2	Sb 206.836†	494.5	469.2	481.91 µg/L	481.91 ppb	08:11:30
2	Se 196.026†	316.9	300.6	492.35 µg/L	492.35 ppb	08:11:30
2	SiO2†	23735.8	22290.1	5132.9 µg/L	5132.9 ppb	08:11:09
2	Si 251.611†	27795.1	27398.0	2406.1 µg/L	2406.1 ppb	08:11:09
2	Sn 189.927†	1012.6	1008.7	492.88 µg/L	492.88 ppb	08:11:30
2	Ti 334.940†	186734.9	185720.8	471.37 µg/L	471.37 ppb	08:11:04
2	Tl 190.801†	296.7	321.0	484.09 µg/L	484.09 ppb	08:11:30
2	U 409.014†	5132.7	5109.6	472.95 µg/L	472.95 ppb	08:11:09
2	V 292.402†	42315.2	42147.5	480.90 µg/L	480.90 ppb	08:11:09
2	Zn 213.857†	18422.2	17871.9	472.14 µg/L	472.14 ppb	08:11:09
3	Sc RADIAL	54245.2	54245.2	101 %		08:09:59
3	Al 396.153Radial†	6183.9	6133.0	4541.6 µg/L	4541.6 ppb	08:09:59
3	Ca 317.933Radial†	4832.9	4603.3	4452.4 µg/L	4452.4 ppb	08:10:19
3	Fe 238.204 Radial†	546.3	526.5	4650.4 µg/L	4650.4 ppb	08:10:19
3	K 766.490 Radial†	6541.8	6319.7	4753.2 µg/L	4753.2 ppb	08:09:59
3	Mg 279.077 IEC†	511.5	494.5	4705.7 µg/L	4705.7 ppb	08:10:19
3	Na 589.592 Radial†	28478.6	27669.0	9234.1 µg/L	9234.1 ppb	08:09:59
3	Sr 421.552†	43002.7	42498.6	463.84 µg/L	463.84 ppb	08:09:59
3	Sc 361.383	1891257.6	1891257.6	100.44 %		08:11:37
3	Y 371.029	1294606.6	1294606.6	99.853 %		08:11:37
3	Ag 328.068†	55115.0	55462.7	467.48 µg/L	467.48 ppb	08:11:42
3	As 188.979†	203.7	202.6	420.79 µg/L	420.79 ppb	08:12:03
3	B 249.677†	10005.2	9686.2	451.96 µg/L	451.96 ppb	08:11:42
3	Ba 233.527†	16246.5	16206.3	454.68 µg/L	454.68 ppb	08:11:42
3	Be 313.107†	656448.9	657157.0	452.72 µg/L	452.72 ppb	08:11:37
3	Cd 226.502†	15227.5	15299.5	452.57 µg/L	452.57 ppb	08:11:42
3	Co 228.616†	8602.8	8583.1	451.55 µg/L	451.55 ppb	08:11:42
3	Cr 267.716†	19231.9	19181.9	445.52 µg/L	445.52 ppb	08:11:42
3	Cu 324.752†	64738.2	61753.9	456.38 µg/L	456.38 ppb	08:11:42
3	Mn 257.610†	121866.9	121606.1	440.68 µg/L	440.68 ppb	08:11:42
3	Mo 202.031†	3817.5	3810.6	416.37 µg/L	416.37 ppb	08:12:03
3	Ni 231.604†	8060.5	7727.9	450.92 µg/L	450.92 ppb	08:11:42
3	P 214.914†	955.7	924.3	2055.8 µg/L	2055.8 ppb	08:12:03
3	Pb 220.353†	1617.6	1520.5	432.85 µg/L	432.85 ppb	08:12:03
3	S 181.975 Axial†	198.5	183.6	888.54 µg/L	888.54 ppb	08:12:03
3	Sb 206.836†	443.8	419.0	429.97 µg/L	429.97 ppb	08:12:03
3	Se 196.026†	286.0	270.0	442.94 µg/L	442.94 ppb	08:12:03
3	SiO2†	22908.6	21480.5	4946.4 µg/L	4946.4 ppb	08:11:42
3	Si 251.611†	26820.3	26443.9	2322.3 µg/L	2322.3 ppb	08:11:42
3	Sn 189.927†	859.9	857.3	418.90 µg/L	418.90 ppb	08:12:03
3	Ti 334.940†	180713.3	179835.8	456.43 µg/L	456.43 ppb	08:11:37
3	Tl 190.801†	277.2	301.8	455.20 µg/L	455.20 ppb	08:12:03
3	U 409.014†	4868.2	4849.3	448.81 µg/L	448.81 ppb	08:11:42
3	V 292.402†	40089.7	39956.7	455.65 µg/L	455.65 ppb	08:11:42
3	Zn 213.857†	17536.9	17001.3	449.12 µg/L	449.12 ppb	08:11:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1890694.7	100.41 %	0.108			0.11%
Sc RADIAL	53936.1	101 %	0.7			0.69%
Y 371.029	1294533.8	99.847 %	0.0655			0.07%
Ag 328.068†	56569.5	476.86 µg/L	8.121	476.86 ppb	8.121	1.70%
QC value within limits for Ag 328.068 Recovery = 95.37%						
Al 396.153Radial†	6164.5	4564.1 µg/L	34.09	4564.1 ppb	34.09	0.75%
QC value within limits for Al 396.153Radial Recovery = 91.28%						
As 188.979†	222.2	461.60 µg/L	35.419	461.60 ppb	35.419	7.67%
QC value within limits for As 188.979 Recovery = 92.32%						
B 249.677†	9870.8	460.63 µg/L	7.587	460.63 ppb	7.587	1.65%
QC value within limits for B 249.677 Recovery = 92.13%						
Ba 233.527†	16679.1	467.95 µg/L	11.531	467.95 ppb	11.531	2.46%
QC value within limits for Ba 233.527 Recovery = 93.59%						
Be 313.107†	669774.8	461.41 µg/L	7.550	461.41 ppb	7.550	1.64%
QC value within limits for Be 313.107 Recovery = 92.28%						
Ca 317.933Radial†	4628.6	4476.9 µg/L	24.08	4476.9 ppb	24.08	0.54%
QC value less than the lower limit for Ca 317.933Radial Recovery = 89.54%						
Cd 226.502†	15741.0	465.65 µg/L	11.341	465.65 ppb	11.341	2.44%
QC value within limits for Cd 226.502 Recovery = 93.13%						
Co 228.616†	8878.7	467.14 µg/L	13.517	467.14 ppb	13.517	2.89%

QC value within limits for Co 228.616 Recovery = 93.43%							
Cr 267.716†	20055.2	465.80 µg/L	17.566	465.80 ppb	17.566	3.77%	
QC value within limits for Cr 267.716 Recovery = 93.16%							
Cu 324.752†	63896.9	472.19 µg/L	13.715	472.19 ppb	13.715	2.90%	
QC value within limits for Cu 324.752 Recovery = 94.44%							
Fe 238.204 Radial†	527.6	4660.6 µg/L	24.15	4660.6 ppb	24.15	0.52%	
QC value within limits for Fe 238.204 Radial Recovery = 93.21%							
K 766.490 Radial†	6366.3	4788.2 µg/L	46.24	4788.2 ppb	46.24	0.97%	
QC value within limits for K 766.490 Radial Recovery = 95.76%							
Mg 279.077 IEC†	495.6	4716.6 µg/L	12.45	4716.6 ppb	12.45	0.26%	
QC value within limits for Mg 279.077 IEC Recovery = 94.33%							
Mn 257.610†	125819.6	455.94 µg/L	13.219	455.94 ppb	13.219	2.90%	
QC value within limits for Mn 257.610 Recovery = 91.19%							
Mo 202.031†	4199.7	458.88 µg/L	36.942	458.88 ppb	36.942	8.05%	
QC value within limits for Mo 202.031 Recovery = 91.78%							
Na 589.592 Radial†	27839.2	9290.9 µg/L	67.29	9290.9 ppb	67.29	0.72%	
QC value within limits for Na 589.592 Radial Recovery = 92.91%							
Ni 231.604†	7990.1	466.22 µg/L	13.267	466.22 ppb	13.267	2.85%	
QC value within limits for Ni 231.604 Recovery = 93.24%							
P 214.914†	1014.3	2259.2 µg/L	177.53	2259.2 ppb	177.53	7.86%	
QC value within limits for P 214.914 Recovery = 90.37%							
Pb 220.353†	1641.8	467.46 µg/L	30.612	467.46 ppb	30.612	6.55%	
QC value within limits for Pb 220.353 Recovery = 93.49%							
S 181.975 Axial†	194.0	938.54 µg/L	43.689	938.54 ppb	43.689	4.66%	
QC value within limits for S 181.975 Axial Recovery = 93.85%							
Sb 206.836†	457.8	470.05 µg/L	35.660	470.05 ppb	35.660	7.59%	
QC value within limits for Sb 206.836 Recovery = 94.01%							
Se 196.026†	289.3	474.14 µg/L	27.144	474.14 ppb	27.144	5.72%	
QC value within limits for Se 196.026 Recovery = 94.83%							
SiO2†	21962.1	5057.3 µg/L	98.11	5057.3 ppb	98.11	1.94%	
QC value within limits for SiO2 Recovery = 94.57%							
Si 251.611†	27002.2	2371.4 µg/L	43.68	2371.4 ppb	43.68	1.84%	
QC value within limits for Si 251.611 Recovery = 94.85%							
Sn 189.927†	957.8	468.03 µg/L	42.546	468.03 ppb	42.546	9.09%	
QC value within limits for Sn 189.927 Recovery = 93.61%							
Sr 421.552†	42705.0	466.09 µg/L	2.956	466.09 ppb	2.956	0.63%	
QC value within limits for Sr 421.552 Recovery = 93.22%							
Ti 334.940†	183517.7	465.78 µg/L	8.150	465.78 ppb	8.150	1.75%	
QC value within limits for Ti 334.940 Recovery = 93.16%							
Tl 190.801†	316.9	477.92 µg/L	20.357	477.92 ppb	20.357	4.26%	
QC value within limits for Tl 190.801 Recovery = 95.58%							
U 409.014†	5008.2	463.54 µg/L	12.925	463.54 ppb	12.925	2.79%	
QC value within limits for U 409.014 Recovery = 92.71%							
V 292.402†	41426.1	472.60 µg/L	14.684	472.60 ppb	14.684	3.11%	
QC value within limits for V 292.402 Recovery = 94.52%							
Zn 213.857†	17574.3	464.28 µg/L	13.125	464.28 ppb	13.125	2.83%	
QC value within limits for Zn 213.857 Recovery = 92.86%							
QC Failed. Continue with analysis.							

Sequence No.: 22

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/9/2010 08:12:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53028.8	53028.8	98.8 %		08:12:45
1	Al 396.153Radial†	20.8	37.2	27.587 µg/L	27.587 ppb	08:12:45
1	Ca 317.933Radial†	175.1	0.0	0.0381 µg/L	0.0381 ppb	08:13:06
1	Fe 238.204 Radial†	14.9	1.3	11.443 µg/L	11.443 ppb	08:13:06
1	K 766.490 Radial†	111.4	-38.4	-28.915 µg/L	-28.915 ppb	08:12:45
1	Mg 279.077 IEC†	10.7	-0.6	-5.8390 µg/L	-5.8390 ppb	08:13:06
1	Na 589.592 Radial†	489.7	-5.0	-1.6705 µg/L	-1.6705 ppb	08:12:45
1	Sr 421.552†	47.7	10.9	0.1185 µg/L	0.1185 ppb	08:12:45
1	Sc 361.383	1888417.7	1888417.7	100.29 %		08:14:07
1	Y 371.029	1297484.4	1297484.4	100.07 %		08:14:07
1	Ag 328.068†	-576.9	12.5	0.1079 µg/L	0.1079 ppb	08:14:13
1	As 188.979†	1.5	1.3	2.6036 µg/L	2.6036 ppb	08:14:34
1	B 249.677†	267.0	-9.2	-0.4366 µg/L	-0.4366 ppb	08:14:34
1	Ba 233.527†	-22.6	8.1	0.2268 µg/L	0.2268 ppb	08:14:34
1	Be 313.107†	-3620.3	-43.0	-0.0297 µg/L	-0.0297 ppb	08:14:13
1	Cd 226.502†	-126.5	12.2	0.3586 µg/L	0.3586 ppb	08:14:34
1	Co 228.616†	-19.5	-1.7	-0.0873 µg/L	-0.0873 ppb	08:14:34
1	Cr 267.716†	-32.7	1.1	0.0269 µg/L	0.0269 ppb	08:14:34
1	Cu 324.752†	2759.8	49.7	0.3680 µg/L	0.3680 ppb	08:14:13
1	Mn 257.610†	-199.5	71.0	0.2587 µg/L	0.2587 ppb	08:14:34
1	Mo 202.031†	-7.0	2.7	0.2965 µg/L	0.2965 ppb	08:14:34
1	Ni 231.604†	283.5	-14.8	-0.8663 µg/L	-0.8663 ppb	08:14:34
1	P 214.914†	25.5	-1.9	-4.2954 µg/L	-4.2954 ppb	08:14:34
1	Pb 220.353†	83.8	-6.5	-1.8493 µg/L	-1.8493 ppb	08:14:34
1	S 181.975 Axial†	9.5	-4.6	-22.148 µg/L	-22.148 ppb	08:14:34
1	Sb 206.836†	27.3	4.4	4.4822 µg/L	4.4822 ppb	08:14:34
1	Se 196.026†	15.8	1.1	1.7711 µg/L	1.7711 ppb	08:14:34
1	SiO2†	1408.9	76.5	17.621 µg/L	17.621 ppb	08:14:13
1	Si 251.611†	345.9	85.3	7.4942 µg/L	7.4942 ppb	08:14:34
1	Sn 189.927†	-3.1	-2.0	-0.9585 µg/L	-0.9585 ppb	08:14:34
1	Ti 334.940†	181.0	89.9	0.2288 µg/L	0.2288 ppb	08:14:13
1	Tl 190.801†	-25.8	0.1	0.1503 µg/L	0.1503 ppb	08:14:34
1	U 409.014†	-66.1	-63.6	-5.9023 µg/L	-5.9023 ppb	08:14:13
1	V 292.402†	-11.3	30.3	0.3386 µg/L	0.3386 ppb	08:14:13
1	Zn 213.857†	457.5	-3.0	-0.0767 µg/L	-0.0767 ppb	08:14:34
2	Sc RADIAL	50976.4	50976.4	95.0 %		08:13:11
2	Al 396.153Radial†	-12.6	2.9	2.1412 µg/L	2.1412 ppb	08:13:11
2	Ca 317.933Radial†	169.3	1.1	1.0279 µg/L	1.0279 ppb	08:13:32
2	Fe 238.204 Radial†	17.5	4.6	40.908 µg/L	40.908 ppb	08:13:32
2	K 766.490 Radial†	187.1	45.8	34.435 µg/L	34.435 ppb	08:13:11
2	Mg 279.077 IEC†	13.2	2.5	23.667 µg/L	23.667 ppb	08:13:32
2	Na 589.592 Radial†	503.0	28.9	9.6447 µg/L	9.6447 ppb	08:13:11
2	Sr 421.552†	18.3	-18.1	-0.1976 µg/L	-0.1976 ppb	08:13:11
2	Sc 361.383	1865052.7	1865052.7	99.046 %		08:14:40
2	Y 371.029	1281119.0	1281119.0	98.813 %		08:14:40
2	Ag 328.068†	-537.6	45.0	0.3822 µg/L	0.3822 ppb	08:14:45
2	As 188.979†	-2.5	-2.7	-5.6710 µg/L	-5.6710 ppb	08:15:06
2	B 249.677†	283.0	10.3	0.4613 µg/L	0.4613 ppb	08:15:06
2	Ba 233.527†	-26.2	4.2	0.1171 µg/L	0.1171 ppb	08:15:06
2	Be 313.107†	-3631.2	-99.2	-0.0685 µg/L	-0.0685 ppb	08:14:45
2	Cd 226.502†	-137.9	-0.9	-0.0310 µg/L	-0.0310 ppb	08:15:06
2	Co 228.616†	-13.3	4.3	0.2254 µg/L	0.2254 ppb	08:15:06
2	Cr 267.716†	-55.3	-22.1	-0.5119 µg/L	-0.5119 ppb	08:15:06
2	Cu 324.752†	2764.1	88.4	0.6580 µg/L	0.6580 ppb	08:14:45
2	Mn 257.610†	-210.5	57.4	0.2124 µg/L	0.2124 ppb	08:15:06
2	Mo 202.031†	-7.2	2.4	0.2612 µg/L	0.2612 ppb	08:15:06
2	Ni 231.604†	303.4	8.7	0.5103 µg/L	0.5103 ppb	08:15:06
2	P 214.914†	21.6	-5.4	-12.373 µg/L	-12.373 ppb	08:15:06
2	Pb 220.353†	98.3	9.2	2.6067 µg/L	2.6067 ppb	08:15:06

2	S 181.975 Axial†	12.0	-1.9	-9.3758 µg/L	-9.3758 ppb	08:15:06
2	Sb 206.836†	22.8	0.2	0.2063 µg/L	0.2063 ppb	08:15:06
2	Se 196.026†	14.2	-0.3	-0.4301 µg/L	-0.4301 ppb	08:15:06
2	SiO2†	1518.9	205.2	47.252 µg/L	47.252 ppb	08:14:45
2	Si 251.611†	376.2	120.2	10.556 µg/L	10.556 ppb	08:15:06
2	Sn 189.927†	1.8	2.9	1.4323 µg/L	1.4323 ppb	08:15:06
2	Ti 334.940†	174.9	86.0	0.2167 µg/L	0.2167 ppb	08:14:45
2	Tl 190.801†	-20.4	5.2	7.7019 µg/L	7.7019 ppb	08:15:06
2	U 409.014†	93.6	96.9	8.9763 µg/L	8.9763 ppb	08:14:45
2	V 292.402†	-3.9	37.6	0.4386 µg/L	0.4386 ppb	08:14:45
2	Zn 213.857†	455.4	0.6	0.0100 µg/L	0.0100 ppb	08:15:06
3	Sc RADIAL	52660.4	52660.4	98.1 %		08:13:37
3	Al 396.153Radial†	-15.0	0.9	0.6886 µg/L	0.6886 ppb	08:13:37
3	Ca 317.933Radial†	174.2	0.4	0.3971 µg/L	0.3971 ppb	08:13:57
3	Fe 238.204 Radial†	17.4	3.9	34.502 µg/L	34.502 ppb	08:13:57
3	K 766.490 Radial†	141.8	-6.7	-5.0259 µg/L	-5.0259 ppb	08:13:37
3	Mg 279.077 IEC†	11.8	0.6	5.2603 µg/L	5.2603 ppb	08:13:57
3	Na 589.592 Radial†	488.6	-2.6	-0.8833 µg/L	-0.8833 ppb	08:13:37
3	Sr 421.552†	34.7	-2.0	-0.0218 µg/L	-0.0218 ppb	08:13:37
3	Sc 361.383	1872499.6	1872499.6	99.441 %		08:15:12
3	Y 371.029	1285948.4	1285948.4	99.185 %		08:15:12
3	Ag 328.068†	-570.6	14.0	0.1205 µg/L	0.1205 ppb	08:15:17
3	As 188.979†	1.5	1.3	2.6419 µg/L	2.6419 ppb	08:15:38
3	B 249.677†	288.9	15.1	0.6911 µg/L	0.6911 ppb	08:15:38
3	Ba 233.527†	-29.0	1.4	0.0399 µg/L	0.0399 ppb	08:15:38
3	Be 313.107†	-3572.6	-25.7	-0.0177 µg/L	-0.0177 ppb	08:15:17
3	Cd 226.502†	-135.8	1.8	0.0493 µg/L	0.0493 ppb	08:15:38
3	Co 228.616†	-11.1	6.6	0.3480 µg/L	0.3480 ppb	08:15:38
3	Cr 267.716†	-26.3	7.3	0.1698 µg/L	0.1698 ppb	08:15:38
3	Cu 324.752†	2817.6	131.1	0.9726 µg/L	0.9726 ppb	08:15:17
3	Mn 257.610†	-201.9	66.9	0.2465 µg/L	0.2465 ppb	08:15:38
3	Mo 202.031†	-10.6	-1.0	-0.1025 µg/L	-0.1025 ppb	08:15:38
3	Ni 231.604†	294.6	-1.2	-0.0725 µg/L	-0.0725 ppb	08:15:38
3	P 214.914†	37.5	10.4	23.590 µg/L	23.590 ppb	08:15:38
3	Pb 220.353†	89.0	-0.5	-0.1477 µg/L	-0.1477 ppb	08:15:38
3	S 181.975 Axial†	15.5	1.6	7.6214 µg/L	7.6214 ppb	08:15:38
3	Sb 206.836†	25.0	2.3	2.3673 µg/L	2.3673 ppb	08:15:38
3	Se 196.026†	12.7	-1.9	-2.9736 µg/L	-2.9736 ppb	08:15:38
3	SiO2†	1456.0	135.9	31.292 µg/L	31.292 ppb	08:15:17
3	Si 251.611†	372.9	115.3	10.129 µg/L	10.129 ppb	08:15:38
3	Sn 189.927†	-2.4	-1.3	-0.6192 µg/L	-0.6192 ppb	08:15:38
3	Ti 334.940†	76.6	-13.5	-0.0348 µg/L	-0.0348 ppb	08:15:17
3	Tl 190.801†	-23.6	2.1	3.1391 µg/L	3.1391 ppb	08:15:38
3	U 409.014†	-58.5	-56.5	-5.2478 µg/L	-5.2478 ppb	08:15:17
3	V 292.402†	-22.0	19.5	0.2175 µg/L	0.2175 ppb	08:15:17
3	Zn 213.857†	462.3	5.7	0.1495 µg/L	0.1495 ppb	08:15:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1875323.3	99.591 %	0.6339			0.64%
Sc RADIAL	52221.9	97.3 %	2.04			2.10%
Y 371.029	1288184.0	99.358 %	0.6486			0.65%
Ag 328.068†	23.8	0.2035 µg/L	0.15485	0.2035 ppb	0.15485	76.09%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.7	10.139 µg/L	15.1277	10.139 ppb	15.1277	149.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.1418 µg/L	4.78845	-0.1418 ppb	4.78845	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.4	0.2386 µg/L	0.59593	0.2386 ppb	0.59593	249.77%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.1280 µg/L	0.09390	0.1280 ppb	0.09390	73.38%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-56.0	-0.0386 µg/L	0.02654	-0.0386 ppb	0.02654	68.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.5	0.4877 µg/L	0.50109	0.4877 ppb	0.50109	102.75%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	4.4	0.1257 µg/L	0.20574	0.1257 ppb	0.20574	163.74%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.1	0.1620 µg/L	0.22445	0.1620 ppb	0.22445	138.50%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
		-4.5	-0.1051 µg/L	0.35950	-0.1051 ppb	0.35950 342.15%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
		89.7	0.6662 µg/L	0.30238	0.6662 ppb	0.30238 45.39%
Fe	238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
		3.3	28.951 µg/L	15.4967	28.951 ppb	15.4967 53.53%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
		0.2	0.1650 µg/L	31.99236	0.1650 ppb	31.99236 >999.9%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
		0.8	7.6959 µg/L	14.90281	7.6959 ppb	14.90281 193.65%
Mn	257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
		65.1	0.2392 µg/L	0.02398	0.2392 ppb	0.02398 10.03%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
		1.4	0.1517 µg/L	0.22091	0.1517 ppb	0.22091 145.60%
Na	589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
		7.1	2.3637 µg/L	6.31789	2.3637 ppb	6.31789 267.29%
Ni	231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
		-2.4	-0.1428 µg/L	0.69096	-0.1428 ppb	0.69096 483.77%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
		1.1	2.3071 µg/L	18.86859	2.3071 ppb	18.86859 817.86%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
		0.7	0.2033 µg/L	2.24861	0.2033 ppb	2.24861 >999.9%
S	181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
		-1.6	-7.9676 µg/L	14.93477	-7.9676 ppb	14.93477 187.44%
Sb	206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
		2.3	2.3519 µg/L	2.13798	2.3519 ppb	2.13798 90.90%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
		-0.4	-0.5442 µg/L	2.37440	-0.5442 ppb	2.37440 436.34%
SiO2†		QC value within limits for Se 196.026	Recovery = Not calculated			
		139.2	32.055 µg/L	14.8300	32.055 ppb	14.8300 46.26%
Si	251.611†	QC value within limits for SiO2	Recovery = Not calculated			
		107.0	9.3932 µg/L	1.65847	9.3932 ppb	1.65847 17.66%
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
		-0.1	-0.0484 µg/L	1.29354	-0.0484 ppb	1.29354 >999.9%
Sr	421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
		-3.1	-0.0336 µg/L	0.15839	-0.0336 ppb	0.15839 471.50%
Ti	334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
		54.1	0.1369 µg/L	0.14881	0.1369 ppb	0.14881 108.71%
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
		2.5	3.6638 µg/L	3.80307	3.6638 ppb	3.80307 103.80%
U	409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
		-7.8	-0.7246 µg/L	8.40759	-0.7246 ppb	8.40759 >999.9%
V	292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
		29.1	0.3315 µg/L	0.11072	0.3315 ppb	0.11072 33.40%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
		1.1	0.0276 µg/L	0.11416	0.0276 ppb	0.11416 413.32%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 23

Sample ID: 244628010|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 316

Date Collected: 2/9/2010 08:15:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628010|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	55092.9	55092.9	103 %		08:16:24
1	Al 396.153Radial†	110269.9	107411.0	79690 µg/L	79690 ppb	08:16:24
1	Ca 317.933Radial†	46313.7	44929.1	43457 µg/L	43457 ppb	08:16:24
1	Fe 238.204 Radial†	11309.9	11001.2	96965 µg/L	96965 ppb	08:16:45
1	K 766.490 Radial†	16665.2	16079.5	12094 µg/L	12094 ppb	08:16:24
1	Mg 279.077 IEC†	1579.5	1526.9	14420 µg/L	14420 ppb	08:16:45
1	Na 589.592 Radial†	2115.4	1559.7	520.53 µg/L	520.53 ppb	08:16:45
1	Sr 421.552†	26498.1	25769.9	281.26 µg/L	281.26 ppb	08:16:24
1	Sc 361.383	1882799.2	1882799.2	99.988 %		08:17:49
1	Y 371.029	1337859.1	1337859.1	103.19 %		08:17:49
1	Ag 328.068†	-1504.5	-916.8	-0.5408 µg/L	-0.5408 ppb	08:17:55
1	As 188.979†	11.1	10.9	25.985 µg/L	25.985 ppb	08:18:15
1	B 249.677†	1340.1	1064.8	-0.5550 µg/L	-0.5550 ppb	08:17:55
1	Ba 233.527†	33519.2	33553.8	939.97 µg/L	939.97 ppb	08:17:55
1	Be 313.107†	11851.9	15420.3	9.5570 µg/L	9.5570 ppb	08:17:55
1	Cd 226.502†	193.6	332.0	-1.0683 µg/L	-1.0683 ppb	08:18:15
1	Co 228.616†	687.4	705.2	31.290 µg/L	31.290 ppb	08:18:15
1	Cr 267.716†	4512.0	4546.3	105.62 µg/L	105.62 ppb	08:17:55
1	Cu 324.752†	10707.5	8006.4	72.564 µg/L	72.564 ppb	08:17:55
1	Mn 257.610†	738495.5	738852.4	2687.2 µg/L	2687.2 ppb	08:17:49
1	Mo 202.031†	34.8	44.5	8.5461 µg/L	8.5461 ppb	08:18:15
1	Ni 231.604†	1433.5	1136.1	67.580 µg/L	67.580 ppb	08:18:15
1	P 214.914†	768.6	741.4	1622.4 µg/L	1622.4 ppb	08:18:15
1	Pb 220.353†	489.4	399.4	114.39 µg/L	114.39 ppb	08:18:15
1	S 181.975 Axial†	400.3	386.4	1869.4 µg/L	1869.4 ppb	08:18:15
1	Sb 206.836†	35.9	13.0	8.4342 µg/L	8.4342 ppb	08:18:15
1	Se 196.026†	-37.0	-51.7	156.53 µg/L	156.53 ppb	08:18:15
1	SiO2†	70859.5	69539.5	16013 µg/L	16013 ppb	08:17:55
1	Si 251.611†	85159.5	84909.9	7456.9 µg/L	7456.9 ppb	08:17:55
1	Sn 189.927†	-24.0	-22.9	-20.037 µg/L	-20.037 ppb	08:18:15
1	Ti 334.940†	1105913.6	1105953.4	2808.3 µg/L	2808.3 ppb	08:17:49
1	Tl 190.801†	-50.5	-24.7	14.398 µg/L	14.398 ppb	08:18:15
1	U 409.014†	-875.2	-873.0	-97.093 µg/L	-97.093 ppb	08:17:49
1	V 292.402†	13731.6	13774.7	166.88 µg/L	166.88 ppb	08:17:55
1	Zn 213.857†	12684.2	12226.5	319.48 µg/L	319.48 ppb	08:17:55
2	Sc RADIAL	54522.1	54522.1	102 %		08:16:50
2	Al 396.153Radial†	109697.6	107972.1	80106 µg/L	80106 ppb	08:16:50
2	Ca 317.933Radial†	45782.4	44878.4	43408 µg/L	43408 ppb	08:16:50
2	Fe 238.204 Radial†	11415.6	11220.6	98898 µg/L	98898 ppb	08:17:11
2	K 766.490 Radial†	16646.2	16230.7	12208 µg/L	12208 ppb	08:16:50
2	Mg 279.077 IEC†	1591.2	1554.5	14681 µg/L	14681 ppb	08:17:11
2	Na 589.592 Radial†	2106.1	1572.2	524.70 µg/L	524.70 ppb	08:17:11
2	Sr 421.552†	26314.7	25859.6	282.24 µg/L	282.24 ppb	08:16:50
2	Sc 361.383	1868886.7	1868886.7	99.249 %		08:18:23
2	Y 371.029	1328858.8	1328858.8	102.49 %		08:18:23
2	Ag 328.068†	-1534.9	-958.7	-0.7644 µg/L	-0.7644 ppb	08:18:28
2	As 188.979†	5.0	4.8	13.510 µg/L	13.510 ppb	08:18:49
2	B 249.677†	1307.3	1041.7	-2.6461 µg/L	-2.6461 ppb	08:18:28
2	Ba 233.527†	33304.9	33587.4	940.91 µg/L	940.91 ppb	08:18:28
2	Be 313.107†	11851.4	15508.0	9.5994 µg/L	9.5994 ppb	08:18:28
2	Cd 226.502†	177.7	317.4	-1.7175 µg/L	-1.7175 ppb	08:18:49
2	Co 228.616†	681.7	704.6	31.162 µg/L	31.162 ppb	08:18:49
2	Cr 267.716†	4420.2	4487.4	104.26 µg/L	104.26 ppb	08:18:28
2	Cu 324.752†	10673.5	8051.9	73.169 µg/L	73.169 ppb	08:18:28
2	Mn 257.610†	744572.1	750473.2	2729.5 µg/L	2729.5 ppb	08:18:23
2	Mo 202.031†	36.0	45.9	8.7756 µg/L	8.7756 ppb	08:18:49
2	Ni 231.604†	1434.8	1148.1	68.305 µg/L	68.305 ppb	08:18:49
2	P 214.914†	759.5	738.0	1613.0 µg/L	1613.0 ppb	08:18:49
2	Pb 220.353†	495.4	409.1	117.12 µg/L	117.12 ppb	08:18:49

2	S 181.975 Axial†	397.7	386.7	1871.0 µg/L	1871.0 ppb	08:18:49
2	Sb 206.836†	36.8	14.2	9.6154 µg/L	9.6154 ppb	08:18:49
2	Se 196.026†	-34.8	-49.8	164.78 µg/L	164.78 ppb	08:18:49
2	SiO2†	70612.5	69818.2	16077 µg/L	16077 ppb	08:18:28
2	Si 251.611†	84854.3	85236.4	7485.5 µg/L	7485.5 ppb	08:18:28
2	Sn 189.927†	-30.6	-29.7	-23.561 µg/L	-23.561 ppb	08:18:49
2	Ti 334.940†	1116192.6	1124543.8	2855.5 µg/L	2855.5 ppb	08:18:23
2	Tl 190.801†	-50.2	-24.8	15.128 µg/L	15.128 ppb	08:18:49
2	U 409.014†	-1033.7	-1039.2	-112.77 µg/L	-112.77 ppb	08:18:23
2	V 292.402†	13695.4	13840.5	167.83 µg/L	167.83 ppb	08:18:28
2	Zn 213.857†	12605.7	12241.8	319.78 µg/L	319.78 ppb	08:18:28
3	Sc RADIAL	54507.8	54507.8	102 %		08:17:16
3	Al 396.153Radial†	109711.7	108014.3	80137 µg/L	80137 ppb	08:17:16
3	Ca 317.933Radial†	45634.8	44744.9	43279 µg/L	43279 ppb	08:17:16
3	Fe 238.204 Radial†	11351.5	11160.3	98367 µg/L	98367 ppb	08:17:37
3	K 766.490 Radial†	16627.5	16216.6	12197 µg/L	12197 ppb	08:17:16
3	Mg 279.077 IEC†	1586.8	1550.6	14644 µg/L	14644 ppb	08:17:37
3	Na 589.592 Radial†	2128.6	1594.8	532.25 µg/L	532.25 ppb	08:17:37
3	Sr 421.552†	26268.1	25820.5	281.81 µg/L	281.81 ppb	08:17:16
3	Sc 361.383	1857779.0	1857779.0	98.659 %		08:18:56
3	Y 371.029	1321367.7	1321367.7	101.92 %		08:18:56
3	Ag 328.068†	-1505.3	-938.0	-0.6424 µg/L	-0.6424 ppb	08:19:02
3	As 188.979†	8.8	8.7	21.528 µg/L	21.528 ppb	08:19:22
3	B 249.677†	1309.0	1051.4	-1.9208 µg/L	-1.9208 ppb	08:19:02
3	Ba 233.527†	32703.0	33177.9	929.44 µg/L	929.44 ppb	08:19:02
3	Be 313.107†	11492.2	15215.3	9.4157 µg/L	9.4157 ppb	08:19:02
3	Cd 226.502†	153.4	293.9	-2.3570 µg/L	-2.3570 ppb	08:19:22
3	Co 228.616†	647.3	673.8	29.638 µg/L	29.638 ppb	08:19:22
3	Cr 267.716†	4332.5	4425.2	102.81 µg/L	102.81 ppb	08:19:02
3	Cu 324.752†	10493.2	7933.5	72.221 µg/L	72.221 ppb	08:19:02
3	Mn 257.610†	729815.8	740001.9	2691.5 µg/L	2691.5 ppb	08:18:56
3	Mo 202.031†	35.6	45.7	8.7306 µg/L	8.7306 ppb	08:19:22
3	Ni 231.604†	1385.7	1107.0	65.898 µg/L	65.898 ppb	08:19:22
3	P 214.914†	727.8	710.4	1551.0 µg/L	1551.0 ppb	08:19:22
3	Pb 220.353†	489.2	405.9	116.21 µg/L	116.21 ppb	08:19:22
3	S 181.975 Axial†	384.4	375.6	1817.5 µg/L	1817.5 ppb	08:19:22
3	Sb 206.836†	37.6	15.3	10.781 µg/L	10.781 ppb	08:19:22
3	Se 196.026†	-22.4	-37.4	183.30 µg/L	183.30 ppb	08:19:22
3	SiO2†	68354.3	67954.8	15648 µg/L	15648 ppb	08:19:02
3	Si 251.611†	82042.5	82897.6	7280.1 µg/L	7280.1 ppb	08:19:02
3	Sn 189.927†	-27.7	-27.0	-22.159 µg/L	-22.159 ppb	08:19:22
3	Ti 334.940†	1091271.1	1106007.9	2808.4 µg/L	2808.4 ppb	08:18:56
3	Tl 190.801†	-53.7	-28.6	8.7379 µg/L	8.7379 ppb	08:19:22
3	U 409.014†	-978.6	-989.6	-108.09 µg/L	-108.09 ppb	08:18:56
3	V 292.402†	13371.5	13594.7	165.00 µg/L	165.00 ppb	08:19:02
3	Zn 213.857†	12440.5	12150.3	317.38 µg/L	317.38 ppb	08:19:02

Mean Data: 244628010|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1869821.6	99.299 %	0.6658			0.67%
Sc RADIAL	54707.6	102 %	0.6			0.61%
Y 371.029	1329361.9	102.53 %	0.637			0.62%
Ag 328.068†	-937.8	-0.6492 µg/L	0.11196	-0.6492 ppb	0.11196	17.25%
Al 396.153Radial†	107799.2	79978 µg/L	249.9	79978 ppb	249.9	0.31%
As 188.979†	8.1	20.341 µg/L	6.3218	20.341 ppb	6.3218	31.08%
B 249.677†	1052.6	-1.7073 µg/L	1.06174	-1.7073 ppb	1.06174	62.19%
Ba 233.527†	33439.7	936.77 µg/L	6.369	936.77 ppb	6.369	0.68%
Be 313.107†	15381.2	9.5240 µg/L	0.09621	9.5240 ppb	0.09621	1.01%
Ca 317.933Radial†	44850.8	43381 µg/L	92.0	43381 ppb	92.0	0.21%
Cd 226.502†	314.4	-1.7142 µg/L	0.64436	-1.7142 ppb	0.64436	37.59%
Co 228.616†	694.6	30.697 µg/L	0.9190	30.697 ppb	0.9190	2.99%
Cr 267.716†	4486.3	104.23 µg/L	1.406	104.23 ppb	1.406	1.35%
Cu 324.752†	7997.3	72.651 µg/L	0.4800	72.651 ppb	0.4800	0.66%
Fe 238.204 Radial†	11127.4	98077 µg/L	999.0	98077 ppb	999.0	1.02%
K 766.490 Radial†	16175.6	12166 µg/L	62.8	12166 ppb	62.8	0.52%
Mg 279.077 IEC†	1544.0	14582 µg/L	141.3	14582 ppb	141.3	0.97%
Mn 257.610†	743109.2	2702.7 µg/L	23.28	2702.7 ppb	23.28	0.86%
Mo 202.031†	45.4	8.6841 µg/L	0.12159	8.6841 ppb	0.12159	1.40%
Na 589.592 Radial†	1575.6	525.83 µg/L	5.943	525.83 ppb	5.943	1.13%

Ni 231.604†	1130.4	67.261 µg/L	1.2350	67.261 ppb	1.2350	1.84%
P 214.914†	729.9	1595.5 µg/L	38.83	1595.5 ppb	38.83	2.43%
Pb 220.353†	404.8	115.91 µg/L	1.388	115.91 ppb	1.388	1.20%
S 181.975 Axial†	382.9	1852.6 µg/L	30.46	1852.6 ppb	30.46	1.64%
Sb 206.836†	14.2	9.6103 µg/L	1.17358	9.6103 ppb	1.17358	12.21%
Se 196.026†	-46.3	168.21 µg/L	13.710	168.21 ppb	13.710	8.15%
SiO2†	69104.2	15913 µg/L	231.5	15913 ppb	231.5	1.45%
Si 251.611†	84347.9	7407.5 µg/L	111.24	7407.5 ppb	111.24	1.50%
Sn 189.927†	-26.5	-21.919 µg/L	1.7742	-21.919 ppb	1.7742	8.09%
Sr 421.552†	25816.7	281.77 µg/L	0.491	281.77 ppb	0.491	0.17%
Ti 334.940†	1112168.4	2824.1 µg/L	27.21	2824.1 ppb	27.21	0.96%
Tl 190.801†	-26.0	12.755 µg/L	3.4979	12.755 ppb	3.4979	27.42%
U 409.014†	-967.3	-105.98 µg/L	8.047	-105.98 ppb	8.047	7.59%
V 292.402†	13736.6	166.57 µg/L	1.441	166.57 ppb	1.441	0.87%
Zn 213.857†	12206.2	318.88 µg/L	1.306	318.88 ppb	1.306	0.41%

Sequence No.: 24

Sample ID: 244628011|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 317

Date Collected: 2/9/2010 08:19:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628011|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52160.6	52160.6	97.2 %		08:20:04
1	Al 396.153Radial†	35995.9	37044.3	27484 µg/L	27484 ppb	08:20:04
1	Ca 317.933Radial†	7337.5	7370.7	7129.2 µg/L	7129.2 ppb	08:20:04
1	Fe 238.204 Radial†	10409.2	10693.9	94255 µg/L	94255 ppb	08:20:04
1	K 766.490 Radial†	6025.7	6047.3	4548.3 µg/L	4548.3 ppb	08:20:04
1	Mg 279.077 IEC†	495.0	497.8	4634.0 µg/L	4634.0 ppb	08:20:24
1	Na 589.592 Radial†	2731.1	2308.9	770.55 µg/L	770.55 ppb	08:20:04
1	Sr 421.552†	4601.6	4696.2	51.255 µg/L	51.255 ppb	08:20:04
1	Sc 361.383	1907555.0	1907555.0	101.30 %		08:21:28
1	Y 371.029	1387094.4	1387094.4	106.99 %		08:21:28
1	Ag 328.068†	-1694.3	-1084.7	-2.7692 µg/L	-2.7692 ppb	08:21:33
1	As 188.979†	8.7	8.4	22.500 µg/L	22.500 ppb	08:21:54
1	B 249.677†	739.9	455.0	-27.793 µg/L	-27.793 ppb	08:21:33
1	Ba 233.527†	9249.9	9161.6	256.67 µg/L	256.67 ppb	08:21:33
1	Be 313.107†	7606.2	11075.3	6.5354 µg/L	6.5354 ppb	08:21:33
1	Cd 226.502†	156.7	293.0	-1.9555 µg/L	-1.9555 ppb	08:21:54
1	Co 228.616†	332.6	346.1	12.226 µg/L	12.226 ppb	08:21:54
1	Cr 267.716†	2142.7	2148.9	49.915 µg/L	49.915 ppb	08:21:54
1	Cu 324.752†	4458.9	1699.3	25.642 µg/L	25.642 ppb	08:21:33
1	Mn 257.610†	705074.6	696276.3	2533.1 µg/L	2533.1 ppb	08:21:28
1	Mo 202.031†	54.3	63.2	10.490 µg/L	10.490 ppb	08:21:54
1	Ni 231.604†	783.1	475.5	28.978 µg/L	28.978 ppb	08:21:54
1	P 214.914†	267.8	237.1	468.77 µg/L	468.77 ppb	08:21:54
1	Pb 220.353†	254.8	161.5	44.063 µg/L	44.063 ppb	08:21:54
1	S 181.975 Axial†	59.6	44.8	216.74 µg/L	216.74 ppb	08:21:54
1	Sb 206.836†	23.6	0.5	-0.5917 µg/L	-0.5917 ppb	08:21:54
1	Se 196.026†	-34.1	-48.3	173.44 µg/L	173.44 ppb	08:21:54
1	SiO2†	77927.2	75596.6	17408 µg/L	17408 ppb	08:21:33
1	Si 251.611†	93826.8	92360.4	8111.2 µg/L	8111.2 ppb	08:21:33
1	Sn 189.927†	-11.4	-10.2	-14.499 µg/L	-14.499 ppb	08:21:54
1	Ti 334.940†	1148962.3	1134094.4	2880.0 µg/L	2880.0 ppb	08:21:28
1	Tl 190.801†	-54.0	-27.5	9.0554 µg/L	9.0554 ppb	08:21:54
1	U 409.014†	-1739.6	-1714.9	-172.58 µg/L	-172.58 ppb	08:21:28
1	V 292.402†	5019.6	4996.6	67.419 µg/L	67.419 ppb	08:21:33
1	Zn 213.857†	17939.8	17249.9	454.06 µg/L	454.06 ppb	08:21:33
2	Sc RADIAL	52055.3	52055.3	97.0 %		08:20:30
2	Al 396.153Radial†	36085.0	37211.2	27607 µg/L	27607 ppb	08:20:30
2	Ca 317.933Radial†	7349.9	7398.8	7156.4 µg/L	7156.4 ppb	08:20:30
2	Fe 238.204 Radial†	10407.5	10713.9	94432 µg/L	94432 ppb	08:20:30
2	K 766.490 Radial†	5990.8	6023.9	4530.7 µg/L	4530.7 ppb	08:20:30
2	Mg 279.077 IEC†	495.1	498.9	4644.5 µg/L	4644.5 ppb	08:20:50
2	Na 589.592 Radial†	2685.9	2268.0	756.90 µg/L	756.90 ppb	08:20:30
2	Sr 421.552†	4635.9	4741.2	51.746 µg/L	51.746 ppb	08:20:30
2	Sc 361.383	1832998.2	1832998.2	97.343 %		08:22:01
2	Y 371.029	1340699.4	1340699.4	103.41 %		08:22:01
2	Ag 328.068†	-1666.5	-1124.2	-3.0488 µg/L	-3.0488 ppb	08:22:07
2	As 188.979†	13.2	13.4	32.948 µg/L	32.948 ppb	08:22:27
2	B 249.677†	754.2	499.4	-25.802 µg/L	-25.802 ppb	08:22:07
2	Ba 233.527†	9741.6	10038.1	281.23 µg/L	281.23 ppb	08:22:07
2	Be 313.107†	8168.2	11958.1	7.0510 µg/L	7.0510 ppb	08:22:07
2	Cd 226.502†	171.8	314.8	-1.3270 µg/L	-1.3270 ppb	08:22:27
2	Co 228.616†	344.0	371.1	13.034 µg/L	13.034 ppb	08:22:27
2	Cr 267.716†	2163.0	2255.8	52.399 µg/L	52.399 ppb	08:22:27
2	Cu 324.752†	4502.0	1922.6	27.314 µg/L	27.314 ppb	08:22:07
2	Mn 257.610†	735364.2	755702.4	2748.3 µg/L	2748.3 ppb	08:22:01
2	Mo 202.031†	46.3	57.2	9.8365 µg/L	9.8365 ppb	08:22:27
2	Ni 231.604†	790.7	514.7	31.270 µg/L	31.270 ppb	08:22:27
2	P 214.914†	275.6	255.8	510.99 µg/L	510.99 ppb	08:22:27
2	Pb 220.353†	259.8	176.9	48.450 µg/L	48.450 ppb	08:22:27

2	S 181.975 Axial†	56.3	43.8	211.78 µg/L	211.78 ppb	08:22:27
2	Sb 206.836†	35.3	13.4	12.559 µg/L	12.559 ppb	08:22:27
2	Se 196.026†	-43.7	-59.6	155.70 µg/L	155.70 ppb	08:22:27
2	SiO2†	81756.1	82658.9	19034 µg/L	19034 ppb	08:22:07
2	Si 251.611†	98409.0	100834.9	8855.4 µg/L	8855.4 ppb	08:22:07
2	Sn 189.927†	-9.6	-8.7	-13.823 µg/L	-13.823 ppb	08:22:27
2	Ti 334.940†	1197397.7	1229984.3	3123.5 µg/L	3123.5 ppb	08:22:01
2	Tl 190.801†	-51.4	-27.0	12.795 µg/L	12.795 ppb	08:22:27
2	U 409.014†	-1793.3	-1839.9	-184.20 µg/L	-184.20 ppb	08:22:01
2	V 292.402†	5342.5	5529.9	73.439 µg/L	73.439 ppb	08:22:07
2	Zn 213.857†	18856.8	18912.2	498.27 µg/L	498.27 ppb	08:22:07
3	Sc RADIAL	52593.1	52593.1	98.0 %		08:20:55
3	Al 396.153Radial†	35446.3	36179.2	26842 µg/L	26842 ppb	08:20:55
3	Ca 317.933Radial†	7210.2	7178.9	6943.7 µg/L	6943.7 ppb	08:20:55
3	Fe 238.204 Radial†	10258.8	10452.5	92128 µg/L	92128 ppb	08:20:55
3	K 766.490 Radial†	5904.8	5873.0	4417.3 µg/L	4417.3 ppb	08:20:55
3	Mg 279.077 IEC†	486.3	484.8	4512.4 µg/L	4512.4 ppb	08:21:16
3	Na 589.592 Radial†	2607.0	2159.2	720.60 µg/L	720.60 ppb	08:20:55
3	Sr 421.552†	4590.7	4646.2	50.709 µg/L	50.709 ppb	08:20:55
3	Sc 361.383	1807959.4	1807959.4	96.014 %		08:22:35
3	Y 371.029	1323828.8	1323828.8	102.11 %		08:22:35
3	Ag 328.068†	-1633.8	-1113.8	-3.1144 µg/L	-3.1144 ppb	08:22:40
3	As 188.979†	-0.2	-0.4	4.0776 µg/L	4.0776 ppb	08:23:01
3	B 249.677†	753.3	509.2	-24.146 µg/L	-24.146 ppb	08:22:40
3	Ba 233.527†	9382.7	9802.9	274.64 µg/L	274.64 ppb	08:22:40
3	Be 313.107†	7644.3	11528.6	6.7518 µg/L	6.7518 ppb	08:22:40
3	Cd 226.502†	135.7	279.6	-2.1089 µg/L	-2.1089 ppb	08:23:01
3	Co 228.616†	304.7	335.1	11.118 µg/L	11.118 ppb	08:23:01
3	Cr 267.716†	1967.8	2083.2	48.394 µg/L	48.394 ppb	08:23:01
3	Cu 324.752†	4435.8	1917.7	26.958 µg/L	26.958 ppb	08:22:40
3	Mn 257.610†	725691.9	756090.7	2749.4 µg/L	2749.4 ppb	08:22:35
3	Mo 202.031†	31.6	42.5	8.1472 µg/L	8.1472 ppb	08:23:01
3	Ni 231.604†	744.6	477.9	29.094 µg/L	29.094 ppb	08:23:01
3	P 214.914†	254.5	237.8	471.56 µg/L	471.56 ppb	08:23:01
3	Pb 220.353†	240.8	160.8	43.903 µg/L	43.903 ppb	08:23:01
3	S 181.975 Axial†	54.3	42.5	205.57 µg/L	205.57 ppb	08:23:01
3	Sb 206.836†	26.5	4.7	3.7677 µg/L	3.7677 ppb	08:23:01
3	Se 196.026†	-29.2	-45.2	172.93 µg/L	172.93 ppb	08:23:01
3	SiO2†	74372.7	76132.1	17531 µg/L	17531 ppb	08:22:40
3	Si 251.611†	89417.7	92870.5	8156.0 µg/L	8156.0 ppb	08:22:40
3	Sn 189.927†	-13.6	-13.0	-15.678 µg/L	-15.678 ppb	08:23:01
3	Ti 334.940†	1184179.6	1233253.0	3131.8 µg/L	3131.8 ppb	08:22:35
3	Tl 190.801†	-53.3	-29.7	8.5000 µg/L	8.5000 ppb	08:23:01
3	U 409.014†	-1750.5	-1820.8	-182.10 µg/L	-182.10 ppb	08:22:35
3	V 292.402†	5175.4	5431.8	72.043 µg/L	72.043 ppb	08:22:40
3	Zn 213.857†	18313.9	18615.0	490.49 µg/L	490.49 ppb	08:22:40

Mean Data: 244628011|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1849504.2	98.220 %	2.7514			2.80%
Sc RADIAL	52269.7	97.4 %	0.53			0.55%
Y 371.029	1350540.9	104.17 %	2.527			2.43%
Ag 328.068†	-1107.6	-2.9775 µg/L	0.18333	-2.9775 ppb	0.18333	6.16%
Al 396.153Radial†	36811.6	27311 µg/L	411.0	27311 ppb	411.0	1.50%
As 188.979†	7.1	19.842 µg/L	14.6178	19.842 ppb	14.6178	73.67%
B 249.677†	487.8	-25.913 µg/L	1.8261	-25.913 ppb	1.8261	7.05%
Ba 233.527†	9667.5	270.85 µg/L	12.711	270.85 ppb	12.711	4.69%
Be 313.107†	11520.7	6.7794 µg/L	0.25890	6.7794 ppb	0.25890	3.82%
Ca 317.933Radial†	7316.2	7076.4 µg/L	115.77	7076.4 ppb	115.77	1.64%
Cd 226.502†	295.8	-1.7971 µg/L	0.41429	-1.7971 ppb	0.41429	23.05%
Co 228.616†	350.8	12.126 µg/L	0.9615	12.126 ppb	0.9615	7.93%
Cr 267.716†	2162.7	50.236 µg/L	2.0220	50.236 ppb	2.0220	4.03%
Cu 324.752†	1846.5	26.638 µg/L	0.8810	26.638 ppb	0.8810	3.31%
Fe 238.204 Radial†	10620.1	93605 µg/L	1282.4	93605 ppb	1282.4	1.37%
K 766.490 Radial†	5981.4	4498.8 µg/L	71.14	4498.8 ppb	71.14	1.58%
Mg 279.077 IEC†	493.8	4597.0 µg/L	73.46	4597.0 ppb	73.46	1.60%
Mn 257.610†	736023.1	2676.9 µg/L	124.55	2676.9 ppb	124.55	4.65%
Mo 202.031†	54.3	9.4913 µg/L	1.20894	9.4913 ppb	1.20894	12.74%
Na 589.592 Radial†	2245.3	749.35 µg/L	25.816	749.35 ppb	25.816	3.45%

Ni 231.604†	489.4	29.781 µg/L	1.2913	29.781 ppb	1.2913	4.34%
P 214.914†	243.6	483.77 µg/L	23.615	483.77 ppb	23.615	4.88%
Pb 220.353†	166.4	45.472 µg/L	2.5804	45.472 ppb	2.5804	5.67%
S 181.975 Axial†	43.7	211.37 µg/L	5.595	211.37 ppb	5.595	2.65%
Sb 206.836†	6.2	5.2452 µg/L	6.69887	5.2452 ppb	6.69887	127.72%
Se 196.026†	-51.0	167.36 µg/L	10.096	167.36 ppb	10.096	6.03%
SiO2†	78129.2	17991 µg/L	905.4	17991 ppb	905.4	5.03%
Si 251.611†	95355.3	8374.2 µg/L	417.36	8374.2 ppb	417.36	4.98%
Sn 189.927†	-10.6	-14.667 µg/L	0.9389	-14.667 ppb	0.9389	6.40%
Sr 421.552†	4694.5	51.237 µg/L	0.5185	51.237 ppb	0.5185	1.01%
Ti 334.940†	1199110.6	3045.1 µg/L	143.06	3045.1 ppb	143.06	4.70%
Tl 190.801†	-28.1	10.117 µg/L	2.3361	10.117 ppb	2.3361	23.09%
U 409.014†	-1791.9	-179.62 µg/L	6.192	-179.62 ppb	6.192	3.45%
V 292.402†	5319.4	70.967 µg/L	3.1512	70.967 ppb	3.1512	4.44%
Zn 213.857†	18259.0	480.94 µg/L	23.600	480.94 ppb	23.600	4.91%

Sequence No.: 25

Sample ID: 244628012|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 318

Date Collected: 2/9/2010 08:23:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628012|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	53093.4	53093.4	99.0 %		08:23:43
1	Al 396.153Radial†	22420.9	22674.8	16823 µg/L	16823 ppb	08:23:43
1	Ca 317.933Radial†	9470.7	9394.0	9086.2 µg/L	9086.2 ppb	08:23:43
1	Fe 238.204 Radial†	6445.0	6499.5	57287 µg/L	57287 ppb	08:23:43
1	K 766.490 Radial†	5183.9	5087.7	3826.6 µg/L	3826.6 ppb	08:23:43
1	Mg 279.077 IEC†	355.8	348.1	3250.0 µg/L	3250.0 ppb	08:24:03
1	Na 589.592 Radial†	3203.9	2737.4	913.56 µg/L	913.56 ppb	08:23:43
1	Sr 421.552†	4775.6	4788.9	52.267 µg/L	52.267 ppb	08:23:43
1	Sc 361.383	1879060.3	1879060.3	99.790 %		08:25:08
1	Y 371.029	1340935.5	1340935.5	103.43 %		08:25:08
1	Ag 328.068†	-1293.9	-708.8	-2.1308 µg/L	-2.1308 ppb	08:25:13
1	As 188.979†	1.4	1.2	5.2938 µg/L	5.2938 ppb	08:25:34
1	B 249.677†	680.3	406.3	-10.836 µg/L	-10.836 ppb	08:25:13
1	Ba 233.527†	6555.4	6599.9	184.88 µg/L	184.88 ppb	08:25:13
1	Be 313.107†	5263.3	8841.4	5.4062 µg/L	5.4062 ppb	08:25:13
1	Cd 226.502†	55.1	193.6	-0.7371 µg/L	-0.7371 ppb	08:25:34
1	Co 228.616†	181.8	199.9	6.7703 µg/L	6.7703 ppb	08:25:34
1	Cr 267.716†	653.2	688.4	15.997 µg/L	15.997 ppb	08:25:34
1	Cu 324.752†	5058.9	2367.2	25.432 µg/L	25.432 ppb	08:25:13
1	Mn 257.610†	579216.3	580707.1	2109.8 µg/L	2109.8 ppb	08:25:08
1	Mo 202.031†	28.5	38.2	6.3546 µg/L	6.3546 ppb	08:25:34
1	Ni 231.604†	457.4	160.9	10.128 µg/L	10.128 ppb	08:25:34
1	P 214.914†	370.7	344.3	738.59 µg/L	738.59 ppb	08:25:34
1	Pb 220.353†	268.2	178.7	49.727 µg/L	49.727 ppb	08:25:34
1	S 181.975 Axial†	133.1	119.3	577.36 µg/L	577.36 ppb	08:25:34
1	Sb 206.836†	28.5	5.7	4.9667 µg/L	4.9667 ppb	08:25:34
1	Se 196.026†	-19.4	-34.2	95.994 µg/L	95.994 ppb	08:25:34
1	SiO2†	89510.0	88370.4	20349 µg/L	20349 ppb	08:25:13
1	Si 251.611†	108205.8	108174.3	9500.0 µg/L	9500.0 ppb	08:25:13
1	Sn 189.927†	-13.2	-12.1	-11.667 µg/L	-11.667 ppb	08:25:34
1	Ti 334.940†	708610.8	710013.9	1803.1 µg/L	1803.1 ppb	08:25:08
1	Tl 190.801†	-43.9	-18.2	5.5297 µg/L	5.5297 ppb	08:25:34
1	U 409.014†	-1200.3	-1200.5	-119.85 µg/L	-119.85 ppb	08:25:08
1	V 292.402†	2543.5	2590.4	35.895 µg/L	35.895 ppb	08:25:13
1	Zn 213.857†	14075.3	13645.8	360.08 µg/L	360.08 ppb	08:25:13
2	Sc RADIAL	52516.5	52516.5	97.9 %		08:24:09
2	Al 396.153Radial†	22693.5	23202.3	17214 µg/L	17214 ppb	08:24:09
2	Ca 317.933Radial†	9506.4	9535.7	9223.2 µg/L	9223.2 ppb	08:24:09
2	Fe 238.204 Radial†	6499.2	6626.5	58406 µg/L	58406 ppb	08:24:09
2	K 766.490 Radial†	5153.7	5114.4	3846.7 µg/L	3846.7 ppb	08:24:09
2	Mg 279.077 IEC†	358.6	355.0	3313.9 µg/L	3313.9 ppb	08:24:29
2	Na 589.592 Radial†	3247.3	2817.3	940.24 µg/L	940.24 ppb	08:24:09
2	Sr 421.552†	4810.0	4877.0	53.229 µg/L	53.229 ppb	08:24:09
2	Sc 361.383	1876091.7	1876091.7	99.632 %		08:25:41
2	Y 371.029	1338950.1	1338950.1	103.27 %		08:25:41
2	Ag 328.068†	-1342.3	-759.5	-2.4842 µg/L	-2.4842 ppb	08:25:47
2	As 188.979†	1.4	1.2	5.3075 µg/L	5.3075 ppb	08:26:07
2	B 249.677†	701.3	428.5	-10.381 µg/L	-10.381 ppb	08:25:47
2	Ba 233.527†	6535.9	6590.6	184.63 µg/L	184.63 ppb	08:25:47
2	Be 313.107†	5222.6	8808.9	5.3882 µg/L	5.3882 ppb	08:25:47
2	Cd 226.502†	56.9	195.5	-0.8075 µg/L	-0.8075 ppb	08:26:07
2	Co 228.616†	178.6	197.0	6.6427 µg/L	6.6427 ppb	08:26:07
2	Cr 267.716†	640.6	676.8	15.728 µg/L	15.728 ppb	08:26:07
2	Cu 324.752†	4980.6	2296.7	25.068 µg/L	25.068 ppb	08:25:47
2	Mn 257.610†	575039.4	577433.2	2098.1 µg/L	2098.1 ppb	08:25:41
2	Mo 202.031†	33.2	43.0	6.9136 µg/L	6.9136 ppb	08:26:07
2	Ni 231.604†	462.2	166.4	10.465 µg/L	10.465 ppb	08:26:07
2	P 214.914†	373.6	347.7	745.66 µg/L	745.66 ppb	08:26:07
2	Pb 220.353†	257.1	168.0	46.645 µg/L	46.645 ppb	08:26:07

2	S 181.975 Axial†	136.9	123.4	597.05 µg/L	597.05 ppb	08:26:07
2	Sb 206.836†	28.1	5.4	4.5764 µg/L	4.5764 ppb	08:26:07
2	Se 196.026†	-18.3	-33.1	100.66 µg/L	100.66 ppb	08:26:07
2	SiO2†	86778.6	85770.8	19751 µg/L	19751 ppb	08:25:47
2	Si 251.611†	104753.0	104880.3	9210.7 µg/L	9210.7 ppb	08:25:47
2	Sn 189.927†	-11.8	-10.8	-11.137 µg/L	-11.137 ppb	08:26:07
2	Ti 334.940†	702968.2	705474.1	1791.6 µg/L	1791.6 ppb	08:25:41
2	Tl 190.801†	-38.1	-12.4	14.271 µg/L	14.271 ppb	08:26:07
2	U 409.014†	-1141.8	-1143.7	-114.75 µg/L	-114.75 ppb	08:25:41
2	V 292.402†	2544.1	2595.1	36.088 µg/L	36.088 ppb	08:25:47
2	Zn 213.857†	13943.3	13535.6	357.09 µg/L	357.09 ppb	08:25:47
3	Sc RADIAL	53249.8	53249.8	99.2 %		08:24:35
3	Al 396.153Radial†	22539.7	22728.0	16862 µg/L	16862 ppb	08:24:35
3	Ca 317.933Radial†	9527.5	9423.1	9114.3 µg/L	9114.3 ppb	08:24:35
3	Fe 238.204 Radial†	6472.3	6507.9	57361 µg/L	57361 ppb	08:24:35
3	K 766.490 Radial†	5174.3	5062.6	3807.7 µg/L	3807.7 ppb	08:24:35
3	Mg 279.077 IEC†	356.0	347.3	3242.0 µg/L	3242.0 ppb	08:24:55
3	Na 589.592 Radial†	3132.7	2656.1	886.42 µg/L	886.42 ppb	08:24:35
3	Sr 421.552†	4798.7	4797.9	52.366 µg/L	52.366 ppb	08:24:35
3	Sc 361.383	1880642.5	1880642.5	99.874 %		08:26:14
3	Y 371.029	1340434.2	1340434.2	103.39 %		08:26:14
3	Ag 328.068†	-1262.2	-676.0	-1.8602 µg/L	-1.8602 ppb	08:26:20
3	As 188.979†	5.8	5.6	14.467 µg/L	14.467 ppb	08:26:40
3	B 249.677†	687.0	412.5	-10.589 µg/L	-10.589 ppb	08:26:20
3	Ba 233.527†	6357.1	6395.8	179.17 µg/L	179.17 ppb	08:26:20
3	Be 313.107†	4890.7	8463.9	5.1584 µg/L	5.1584 ppb	08:26:20
3	Cd 226.502†	29.7	168.1	-1.5003 µg/L	-1.5003 ppb	08:26:40
3	Co 228.616†	167.6	185.6	6.0855 µg/L	6.0855 ppb	08:26:40
3	Cr 267.716†	571.5	605.9	14.083 µg/L	14.083 ppb	08:26:40
3	Cu 324.752†	4972.7	2276.7	24.775 µg/L	24.775 ppb	08:26:20
3	Mn 257.610†	571594.2	572587.1	2080.4 µg/L	2080.4 ppb	08:26:14
3	Mo 202.031†	30.4	40.1	6.5572 µg/L	6.5572 ppb	08:26:40
3	Ni 231.604†	451.8	154.8	9.7767 µg/L	9.7767 ppb	08:26:40
3	P 214.914†	358.7	331.9	710.54 µg/L	710.54 ppb	08:26:40
3	Pb 220.353†	270.1	180.4	50.209 µg/L	50.209 ppb	08:26:40
3	S 181.975 Axial†	132.1	118.2	572.11 µg/L	572.11 ppb	08:26:40
3	Sb 206.836†	32.3	9.5	8.8106 µg/L	8.8106 ppb	08:26:40
3	Se 196.026†	-11.7	-26.4	108.70 µg/L	108.70 ppb	08:26:40
3	SiO2†	81142.0	79916.3	18403 µg/L	18403 ppb	08:26:20
3	Si 251.611†	97627.8	97491.7	8561.8 µg/L	8561.8 ppb	08:26:20
3	Sn 189.927†	-12.7	-11.6	-11.454 µg/L	-11.454 ppb	08:26:40
3	Ti 334.940†	696367.1	697157.3	1770.4 µg/L	1770.4 ppb	08:26:14
3	Tl 190.801†	-47.4	-21.6	0.0942 µg/L	0.0942 ppb	08:26:40
3	U 409.014†	-1168.7	-1167.9	-116.84 µg/L	-116.84 ppb	08:26:14
3	V 292.402†	2428.0	2472.6	34.576 µg/L	34.576 ppb	08:26:20
3	Zn 213.857†	13607.6	13165.7	347.31 µg/L	347.31 ppb	08:26:20

Mean Data: 244628012|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1878598.2	99.765 %	0.1227			0.12%
Sc RADIAL	52953.2	98.7 %	0.72			0.73%
Y 371.029	1340106.6	103.36 %	0.080			0.08%
Ag 328.068†	-714.7	-2.1584 µg/L	0.31291	-2.1584 ppb	0.31291	14.50%
Al 396.153Radial†	22868.4	16966 µg/L	215.4	16966 ppb	215.4	1.27%
As 188.979†	2.6	8.3560 µg/L	5.29211	8.3560 ppb	5.29211	63.33%
B 249.677†	415.8	-10.602 µg/L	0.2276	-10.602 ppb	0.2276	2.15%
Ba 233.527†	6528.8	182.89 µg/L	3.229	182.89 ppb	3.229	1.77%
Be 313.107†	8704.7	5.3176 µg/L	0.13814	5.3176 ppb	0.13814	2.60%
Ca 317.933Radial†	9450.9	9141.2 µg/L	72.36	9141.2 ppb	72.36	0.79%
Cd 226.502†	185.7	-1.0150 µg/L	0.42178	-1.0150 ppb	0.42178	41.56%
Co 228.616†	194.2	6.4995 µg/L	0.36420	6.4995 ppb	0.36420	5.60%
Cr 267.716†	657.0	15.269 µg/L	1.0364	15.269 ppb	1.0364	6.79%
Cu 324.752†	2313.5	25.092 µg/L	0.3296	25.092 ppb	0.3296	1.31%
Fe 238.204 Radial†	6544.7	57684 µg/L	625.7	57684 ppb	625.7	1.08%
K 766.490 Radial†	5088.3	3827.0 µg/L	19.49	3827.0 ppb	19.49	0.51%
Mg 279.077 IEC†	350.1	3268.6 µg/L	39.38	3268.6 ppb	39.38	1.20%
Mn 257.610†	576909.1	2096.1 µg/L	14.79	2096.1 ppb	14.79	0.71%
Mo 202.031†	40.4	6.6085 µg/L	0.28303	6.6085 ppb	0.28303	4.28%
Na 589.592 Radial†	2736.9	913.41 µg/L	26.908	913.41 ppb	26.908	2.95%

Ni 231.604†	160.7	10.123 µg/L	0.3441	10.123 ppb	0.3441	3.40%
P 214.914†	341.3	731.60 µg/L	18.572	731.60 ppb	18.572	2.54%
Pb 220.353†	175.7	48.860 µg/L	1.9333	48.860 ppb	1.9333	3.96%
S 181.975 Axial†	120.3	582.17 µg/L	13.151	582.17 ppb	13.151	2.26%
Sb 206.836†	6.9	6.1179 µg/L	2.34010	6.1179 ppb	2.34010	38.25%
Se 196.026†	-31.2	101.78 µg/L	6.427	101.78 ppb	6.427	6.31%
SiO2†	84685.8	19501 µg/L	997.1	19501 ppb	997.1	5.11%
Si 251.611†	103515.4	9090.8 µg/L	480.43	9090.8 ppb	480.43	5.28%
Sn 189.927†	-11.5	-11.420 µg/L	0.2665	-11.420 ppb	0.2665	2.33%
Sr 421.552†	4821.3	52.620 µg/L	0.5291	52.620 ppb	0.5291	1.01%
Ti 334.940†	704215.1	1788.4 µg/L	16.56	1788.4 ppb	16.56	0.93%
Tl 190.801†	-17.4	6.6315 µg/L	7.15218	6.6315 ppb	7.15218	107.85%
U 409.014†	-1170.7	-117.15 µg/L	2.566	-117.15 ppb	2.566	2.19%
V 292.402†	2552.7	35.520 µg/L	0.8229	35.520 ppb	0.8229	2.32%
Zn 213.857†	13449.0	354.83 µg/L	6.682	354.83 ppb	6.682	1.88%

Sequence No.: 26

Sample ID: 244628013|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 319

Date Collected: 2/9/2010 08:26:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628013|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	51744.6	51744.6	96.4 %		08:27:23
1	Al 396.153Radial†	47030.1	48784.0	36193 µg/L	36193 ppb	08:27:23
1	Ca 317.933Radial†	10370.9	10577.0	10230 µg/L	10230 ppb	08:27:43
1	Fe 238.204 Radial†	8904.9	9220.1	81266 µg/L	81266 ppb	08:27:43
1	K 766.490 Radial†	7766.2	7902.0	5943.3 µg/L	5943.3 ppb	08:27:23
1	Mg 279.077 IEC†	639.6	651.8	6113.0 µg/L	6113.0 ppb	08:27:43
1	Na 589.592 Radial†	2440.3	2029.9	677.45 µg/L	677.45 ppb	08:27:23
1	Sr 421.552†	6912.6	7130.7	77.826 µg/L	77.826 ppb	08:27:23
1	Sc 361.383	1868917.4	1868917.4	99.251 %		08:28:47
1	Y 371.029	1342075.0	1342075.0	103.51 %		08:28:47
1	Ag 328.068†	-1492.3	-915.8	-2.1038 µg/L	-2.1038 ppb	08:28:53
1	As 188.979†	5.3	5.1	14.722 µg/L	14.722 ppb	08:29:13
1	B 249.677†	768.2	498.6	-18.941 µg/L	-18.941 ppb	08:28:53
1	Ba 233.527†	14138.8	14276.1	399.93 µg/L	399.93 ppb	08:28:53
1	Be 313.107†	9211.0	12847.5	7.9647 µg/L	7.9647 ppb	08:28:53
1	Cd 226.502†	128.2	267.5	-1.2227 µg/L	-1.2227 ppb	08:29:13
1	Co 228.616†	338.5	358.8	14.036 µg/L	14.036 ppb	08:29:13
1	Cr 267.716†	2981.9	3038.1	70.562 µg/L	70.562 ppb	08:29:13
1	Cu 324.752†	7136.8	4488.4	44.419 µg/L	44.419 ppb	08:28:53
1	Mn 257.610†	751652.4	757594.6	2753.3 µg/L	2753.3 ppb	08:28:47
1	Mo 202.031†	69.6	79.8	11.807 µg/L	11.807 ppb	08:29:13
1	Ni 231.604†	1066.4	776.9	46.413 µg/L	46.413 ppb	08:29:13
1	P 214.914†	407.5	383.3	811.79 µg/L	811.79 ppb	08:29:13
1	Pb 220.353†	373.4	286.2	80.446 µg/L	80.446 ppb	08:29:13
1	S 181.975 Axial†	102.1	88.9	429.95 µg/L	429.95 ppb	08:29:13
1	Sb 206.836†	32.4	9.8	8.4905 µg/L	8.4905 ppb	08:29:13
1	Se 196.026†	-25.8	-40.7	148.04 µg/L	148.04 ppb	08:29:13
1	SiO2†	95280.1	94670.9	21800 µg/L	21800 ppb	08:28:53
1	Si 251.611†	115176.7	115786.2	10168 µg/L	10168 ppb	08:28:53
1	Sn 189.927†	-10.1	-9.1	-12.415 µg/L	-12.415 ppb	08:29:13
1	Ti 334.940†	912263.7	919057.5	2333.8 µg/L	2333.8 ppb	08:28:47
1	Tl 190.801†	-47.7	-22.2	11.716 µg/L	11.716 ppb	08:29:13
1	U 409.014†	-1050.6	-1056.2	-109.88 µg/L	-109.88 ppb	08:28:47
1	V 292.402†	5847.4	5933.1	76.571 µg/L	76.571 ppb	08:28:53
1	Zn 213.857†	14896.8	14550.0	382.65 µg/L	382.65 ppb	08:28:53
2	Sc RADIAL	52757.8	52757.8	98.3 %		08:27:48
2	Al 396.153Radial†	46067.2	46868.0	34772 µg/L	34772 ppb	08:27:48
2	Ca 317.933Radial†	10281.3	10279.3	9942.4 µg/L	9942.4 ppb	08:28:09
2	Fe 238.204 Radial†	8834.7	8971.4	79074 µg/L	79074 ppb	08:28:09
2	K 766.490 Radial†	7735.6	7716.2	5803.5 µg/L	5803.5 ppb	08:27:48
2	Mg 279.077 IEC†	636.4	635.8	5963.1 µg/L	5963.1 ppb	08:28:09
2	Na 589.592 Radial†	2336.3	1875.5	625.94 µg/L	625.94 ppb	08:27:48
2	Sr 421.552†	6777.1	6855.2	74.819 µg/L	74.819 ppb	08:27:48
2	Sc 361.383	1866353.3	1866353.3	99.115 %		08:29:21
2	Y 371.029	1343207.3	1343207.3	103.60 %		08:29:21
2	Ag 328.068†	-1495.9	-921.5	-2.2872 µg/L	-2.2872 ppb	08:29:26
2	As 188.979†	11.8	11.7	28.388 µg/L	28.388 ppb	08:29:47
2	B 249.677†	796.0	527.7	-16.433 µg/L	-16.433 ppb	08:29:26
2	Ba 233.527†	14373.7	14532.7	407.11 µg/L	407.11 ppb	08:29:26
2	Be 313.107†	9362.8	13013.4	8.0664 µg/L	8.0664 ppb	08:29:26
2	Cd 226.502†	137.3	276.9	-0.6976 µg/L	-0.6976 ppb	08:29:47
2	Co 228.616†	351.5	372.4	14.684 µg/L	14.684 ppb	08:29:47
2	Cr 267.716†	3003.8	3064.4	71.171 µg/L	71.171 ppb	08:29:47
2	Cu 324.752†	7238.6	4601.0	44.946 µg/L	44.946 ppb	08:29:26
2	Mn 257.610†	762085.7	769161.6	2794.9 µg/L	2794.9 ppb	08:29:21
2	Mo 202.031†	63.0	73.3	11.007 µg/L	11.007 ppb	08:29:47
2	Ni 231.604†	1070.0	782.0	46.685 µg/L	46.685 ppb	08:29:47
2	P 214.914†	413.1	389.5	827.06 µg/L	827.06 ppb	08:29:47
2	Pb 220.353†	389.8	303.2	85.303 µg/L	85.303 ppb	08:29:47

2	S 181.975 Axial†	104.0	90.9	439.65 µg/L	439.65 ppb	08:29:47
2	Sb 206.836†	27.7	5.1	3.6661 µg/L	3.6661 ppb	08:29:47
2	Se 196.026†	-19.5	-34.3	152.58 µg/L	152.58 ppb	08:29:47
2	SiO2†	97196.9	96736.6	22276 µg/L	22276 ppb	08:29:26
2	Si 251.611†	117718.9	118510.6	10408 µg/L	10408 ppb	08:29:26
2	Sn 189.927†	-16.8	-15.8	-15.492 µg/L	-15.492 ppb	08:29:47
2	Ti 334.940†	924027.8	932189.5	2367.2 µg/L	2367.2 ppb	08:29:21
2	Tl 190.801†	-46.2	-20.8	13.944 µg/L	13.944 ppb	08:29:47
2	U 409.014†	-1155.1	-1163.1	-119.46 µg/L	-119.46 ppb	08:29:21
2	V 292.402†	5876.7	5970.7	76.723 µg/L	76.723 ppb	08:29:26
2	Zn 213.857†	15033.8	14708.8	386.99 µg/L	386.99 ppb	08:29:26
3	Sc RADIAL	52521.5	52521.5	97.9 %		08:28:14
3	Al 396.153Radial†	46766.3	47793.0	35458 µg/L	35458 ppb	08:28:14
3	Ca 317.933Radial†	10436.0	10484.4	10141 µg/L	10141 ppb	08:28:35
3	Fe 238.204 Radial†	8966.1	9146.0	80613 µg/L	80613 ppb	08:28:35
3	K 766.490 Radial†	7819.4	7837.2	5894.6 µg/L	5894.6 ppb	08:28:14
3	Mg 279.077 IEC†	642.7	645.1	6050.3 µg/L	6050.3 ppb	08:28:35
3	Na 589.592 Radial†	2372.4	1923.2	641.83 µg/L	641.83 ppb	08:28:14
3	Sr 421.552†	6848.1	6958.8	75.949 µg/L	75.949 ppb	08:28:14
3	Sc 361.383	1836794.2	1836794.2	97.545 %		08:29:54
3	Y 371.029	1321864.5	1321864.5	101.96 %		08:29:54
3	Ag 328.068†	-1421.2	-869.1	-1.7607 µg/L	-1.7607 ppb	08:30:00
3	As 188.979†	5.7	5.7	15.892 µg/L	15.892 ppb	08:30:20
3	B 249.677†	758.0	501.6	-18.462 µg/L	-18.462 ppb	08:30:00
3	Ba 233.527†	13940.2	14321.6	401.20 µg/L	401.20 ppb	08:30:00
3	Be 313.107†	8975.8	12768.7	7.8855 µg/L	7.8855 ppb	08:30:00
3	Cd 226.502†	120.3	261.6	-1.3258 µg/L	-1.3258 ppb	08:30:20
3	Co 228.616†	325.0	350.9	13.484 µg/L	13.484 ppb	08:30:20
3	Cr 267.716†	2788.5	2892.4	67.178 µg/L	67.178 ppb	08:30:20
3	Cu 324.752†	7124.8	4601.8	45.166 µg/L	45.166 ppb	08:30:00
3	Mn 257.610†	762469.1	781928.2	2841.3 µg/L	2841.3 ppb	08:29:54
3	Mo 202.031†	66.3	77.6	11.538 µg/L	11.538 ppb	08:30:20
3	Ni 231.604†	1019.8	747.9	44.713 µg/L	44.713 ppb	08:30:20
3	P 214.914†	388.4	370.9	783.87 µg/L	783.87 ppb	08:30:20
3	Pb 220.353†	363.6	282.7	79.424 µg/L	79.424 ppb	08:30:20
3	S 181.975 Axial†	95.4	83.7	405.10 µg/L	405.10 ppb	08:30:20
3	Sb 206.836†	31.1	9.0	7.7136 µg/L	7.7136 ppb	08:30:20
3	Se 196.026†	-22.6	-37.9	151.00 µg/L	151.00 ppb	08:30:20
3	SiO2†	90241.8	91184.6	20998 µg/L	20998 ppb	08:30:00
3	Si 251.611†	109193.4	111681.9	9808.0 µg/L	9808.0 ppb	08:30:00
3	Sn 189.927†	-9.7	-8.9	-12.266 µg/L	-12.266 ppb	08:30:20
3	Ti 334.940†	921684.5	944790.1	2399.2 µg/L	2399.2 ppb	08:29:54
3	Tl 190.801†	-47.1	-22.5	12.065 µg/L	12.065 ppb	08:30:20
3	U 409.014†	-1101.1	-1126.5	-116.30 µg/L	-116.30 ppb	08:29:54
3	V 292.402†	5665.7	5849.8	75.539 µg/L	75.539 ppb	08:30:00
3	Zn 213.857†	14672.3	14582.3	383.55 µg/L	383.55 ppb	08:30:00

Mean Data: 244628013|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1857355.0	98.637 %	0.9481			0.96%
Sc RADIAL	52341.3	97.5 %	0.99			1.01%
Y 371.029	1335715.6	103.02 %	0.926			0.90%
Ag 328.068†	-902.1	-2.0506 µg/L	0.26726	-2.0506 ppb	0.26726	13.03%
Al 396.153Radial†	47815.0	35474 µg/L	710.9	35474 ppb	710.9	2.00%
As 188.979†	7.5	19.667 µg/L	7.5747	19.667 ppb	7.5747	38.51%
B 249.677†	509.3	-17.945 µg/L	1.3315	-17.945 ppb	1.3315	7.42%
Ba 233.527†	14376.8	402.75 µg/L	3.835	402.75 ppb	3.835	0.95%
Be 313.107†	12876.5	7.9722 µg/L	0.09066	7.9722 ppb	0.09066	1.14%
Ca 317.933Radial†	10446.9	10105 µg/L	147.4	10105 ppb	147.4	1.46%
Cd 226.502†	268.7	-1.0820 µg/L	0.33692	-1.0820 ppb	0.33692	31.14%
Co 228.616†	360.7	14.068 µg/L	0.6010	14.068 ppb	0.6010	4.27%
Cr 267.716†	2998.3	69.637 µg/L	2.1509	69.637 ppb	2.1509	3.09%
Cu 324.752†	4563.7	44.844 µg/L	0.3836	44.844 ppb	0.3836	0.86%
Fe 238.204 Radial†	9112.5	80318 µg/L	1125.5	80318 ppb	1125.5	1.40%
K 766.490 Radial†	7818.4	5880.4 µg/L	70.93	5880.4 ppb	70.93	1.21%
Mg 279.077 IEC†	644.2	6042.1 µg/L	75.30	6042.1 ppb	75.30	1.25%
Mn 257.610†	769561.5	2796.5 µg/L	44.03	2796.5 ppb	44.03	1.57%
Mo 202.031†	76.9	11.451 µg/L	0.4072	11.451 ppb	0.4072	3.56%
Na 589.592 Radial†	1942.9	648.40 µg/L	26.378	648.40 ppb	26.378	4.07%

Ni 231.604†	768.9	45.937 µg/L	1.0686	45.937 ppb	1.0686	2.33%
P 214.914†	381.2	807.58 µg/L	21.900	807.58 ppb	21.900	2.71%
Pb 220.353†	290.7	81.724 µg/L	3.1411	81.724 ppb	3.1411	3.84%
S 181.975 Axial†	87.8	424.90 µg/L	17.817	424.90 ppb	17.817	4.19%
Sb 206.836†	8.0	6.6234 µg/L	2.59043	6.6234 ppb	2.59043	39.11%
Se 196.026†	-37.6	150.54 µg/L	2.304	150.54 ppb	2.304	1.53%
SiO2†	94197.4	21691 µg/L	646.2	21691 ppb	646.2	2.98%
Si 251.611†	115326.3	10128 µg/L	301.9	10128 ppb	301.9	2.98%
Sn 189.927†	-11.2	-13.391 µg/L	1.8209	-13.391 ppb	1.8209	13.60%
Sr 421.552†	6981.5	76.198 µg/L	1.5187	76.198 ppb	1.5187	1.99%
Ti 334.940†	932012.4	2366.7 µg/L	32.68	2366.7 ppb	32.68	1.38%
Tl 190.801†	-21.8	12.575 µg/L	1.1984	12.575 ppb	1.1984	9.53%
U 409.014†	-1115.3	-115.21 µg/L	4.885	-115.21 ppb	4.885	4.24%
V 292.402†	5917.9	76.278 µg/L	0.6440	76.278 ppb	0.6440	0.84%
Zn 213.857†	14613.7	384.40 µg/L	2.287	384.40 ppb	2.287	0.60%

Sequence No.: 27

Sample ID: 244628014|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 320

Date Collected: 2/9/2010 08:30:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628014|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52539.6	52539.6	97.9 %		08:31:03
1	Al 396.153Radial†	21468.1	21940.7	16277 µg/L	16277 ppb	08:31:03
1	Ca 317.933Radial†	3140.9	3030.5	2931.2 µg/L	2931.2 ppb	08:31:24
1	Fe 238.204 Radial†	8080.1	8238.0	72610 µg/L	72610 ppb	08:31:03
1	K 766.490 Radial†	3331.7	3251.3	2445.4 µg/L	2445.4 ppb	08:31:03
1	Mg 279.077 IEC†	288.4	283.1	2615.7 µg/L	2615.7 ppb	08:31:24
1	Na 589.592 Radial†	3137.8	2704.0	902.42 µg/L	902.42 ppb	08:31:03
1	Sr 421.552†	1941.6	1945.5	21.233 µg/L	21.233 ppb	08:31:03
1	Sc 361.383	1876146.9	1876146.9	99.635 %		08:32:28
1	Y 371.029	1406566.1	1406566.1	108.49 %		08:32:28
1	Ag 328.068†	-1465.2	-882.8	-2.6478 µg/L	-2.6478 ppb	08:32:33
1	As 188.979†	13.4	13.3	31.621 µg/L	31.621 ppb	08:32:54
1	B 249.677†	558.9	285.6	-24.207 µg/L	-24.207 ppb	08:32:33
1	Ba 233.527†	5374.8	5425.1	151.98 µg/L	151.98 ppb	08:32:33
1	Be 313.107†	13978.6	17596.8	11.151 µg/L	11.151 ppb	08:32:33
1	Cd 226.502†	96.2	234.9	-1.1628 µg/L	-1.1628 ppb	08:32:33
1	Co 228.616†	202.5	221.0	6.3246 µg/L	6.3246 ppb	08:32:54
1	Cr 267.716†	8164.2	8227.9	191.00 µg/L	191.00 ppb	08:32:33
1	Cu 324.752†	5258.7	2575.6	29.100 µg/L	29.100 ppb	08:32:33
1	Mn 257.610†	858715.2	862131.4	3130.7 µg/L	3130.7 ppb	08:32:28
1	Mo 202.031†	313.3	324.2	38.164 µg/L	38.164 ppb	08:32:54
1	Ni 231.604†	1879.4	1588.7	93.731 µg/L	93.731 ppb	08:32:33
1	P 214.914†	216.3	189.9	375.02 µg/L	375.02 ppb	08:32:54
1	Pb 220.353†	266.4	177.3	48.849 µg/L	48.849 ppb	08:32:54
1	S 181.975 Axial†	17.3	3.3	16.124 µg/L	16.124 ppb	08:32:54
1	Sb 206.836†	29.2	6.5	4.7620 µg/L	4.7620 ppb	08:32:54
1	Se 196.026†	-13.1	-27.8	150.35 µg/L	150.35 ppb	08:32:54
1	SiO2†	63951.7	62857.7	14475 µg/L	14475 ppb	08:32:33
1	Si 251.611†	76602.6	76623.7	6729.2 µg/L	6729.2 ppb	08:32:33
1	Sn 189.927†	-14.2	-13.1	-13.842 µg/L	-13.842 ppb	08:32:54
1	Ti 334.940†	1005428.3	1009021.6	2562.4 µg/L	2562.4 ppb	08:32:28
1	Tl 190.801†	-48.0	-22.4	12.810 µg/L	12.810 ppb	08:32:54
1	U 409.014†	-1823.6	-1828.0	-179.80 µg/L	-179.80 ppb	08:32:28
1	V 292.402†	2189.6	2239.2	34.324 µg/L	34.324 ppb	08:32:33
1	Zn 213.857†	16295.9	15896.5	418.90 µg/L	418.90 ppb	08:32:33
2	Sc RADIAL	52446.9	52446.9	97.7 %		08:31:29
2	Al 396.153Radial†	21450.7	21961.6	16293 µg/L	16293 ppb	08:31:29
2	Ca 317.933Radial†	3172.3	3068.4	2967.8 µg/L	2967.8 ppb	08:31:50
2	Fe 238.204 Radial†	7992.7	8163.2	71950 µg/L	71950 ppb	08:31:29
2	K 766.490 Radial†	3181.2	3103.4	2334.1 µg/L	2334.1 ppb	08:31:29
2	Mg 279.077 IEC†	293.0	288.3	2665.8 µg/L	2665.8 ppb	08:31:50
2	Na 589.592 Radial†	3219.9	2793.6	932.33 µg/L	932.33 ppb	08:31:29
2	Sr 421.552†	1939.4	1946.7	21.247 µg/L	21.247 ppb	08:31:29
2	Sc 361.383	1849394.1	1849394.1	98.214 %		08:33:01
2	Y 371.029	1388364.5	1388364.5	107.08 %		08:33:01
2	Ag 328.068†	-1478.0	-917.1	-2.9682 µg/L	-2.9682 ppb	08:33:07
2	As 188.979†	8.3	8.2	21.067 µg/L	21.067 ppb	08:33:27
2	B 249.677†	595.5	330.9	-21.732 µg/L	-21.732 ppb	08:33:07
2	Ba 233.527†	5441.4	5571.0	156.07 µg/L	156.07 ppb	08:33:07
2	Be 313.107†	14225.8	18051.4	11.447 µg/L	11.447 ppb	08:33:07
2	Cd 226.502†	117.9	258.4	-0.3883 µg/L	-0.3883 ppb	08:33:07
2	Co 228.616†	202.5	223.9	6.3844 µg/L	6.3844 ppb	08:33:27
2	Cr 267.716†	8295.0	8479.6	196.84 µg/L	196.84 ppb	08:33:07
2	Cu 324.752†	5308.1	2702.3	29.943 µg/L	29.943 ppb	08:33:07
2	Mn 257.610†	860778.8	876700.0	3183.4 µg/L	3183.4 ppb	08:33:01
2	Mo 202.031†	315.3	330.7	38.859 µg/L	38.859 ppb	08:33:27
2	Ni 231.604†	1924.8	1662.2	98.015 µg/L	98.015 ppb	08:33:07
2	P 214.914†	229.2	206.1	412.41 µg/L	412.41 ppb	08:33:27
2	Pb 220.353†	267.1	182.0	50.216 µg/L	50.216 ppb	08:33:27

2	S 181.975 Axial†	19.4	5.7	27.510 µg/L	27.510 ppb	08:33:27
2	Sb 206.836†	28.3	6.0	4.1998 µg/L	4.1998 ppb	08:33:27
2	Se 196.026†	-21.5	-36.6	134.30 µg/L	134.30 ppb	08:33:27
2	SiO2†	63664.9	63494.2	14621 µg/L	14621 ppb	08:33:07
2	Si 251.611†	76371.3	77500.3	6806.1 µg/L	6806.1 ppb	08:33:07
2	Sn 189.927†	-12.0	-11.1	-12.787 µg/L	-12.787 ppb	08:33:27
2	Ti 334.940†	1008540.2	1026787.6	2607.6 µg/L	2607.6 ppb	08:33:01
2	Tl 190.801†	-45.7	-20.7	15.811 µg/L	15.811 ppb	08:33:27
2	U 409.014†	-1896.8	-1929.0	-189.08 µg/L	-189.08 ppb	08:33:01
2	V 292.402†	2271.8	2354.6	35.556 µg/L	35.556 ppb	08:33:07
2	Zn 213.857†	16542.9	16384.5	431.89 µg/L	431.89 ppb	08:33:07
3	Sc RADIAL	51395.3	51395.3	95.8 %		08:31:55
3	Al 396.153Radial†	21829.0	22805.6	16919 µg/L	16919 ppb	08:31:55
3	Ca 317.933Radial†	3144.1	3105.3	3003.5 µg/L	3003.5 ppb	08:32:15
3	Fe 238.204 Radial†	8124.8	8468.5	74641 µg/L	74641 ppb	08:31:55
3	K 766.490 Radial†	3269.4	3262.1	2453.5 µg/L	2453.5 ppb	08:31:55
3	Mg 279.077 IEC†	292.3	293.8	2714.9 µg/L	2714.9 ppb	08:32:15
3	Na 589.592 Radial†	3172.6	2811.6	938.34 µg/L	938.34 ppb	08:31:55
3	Sr 421.552†	1974.4	2023.9	22.089 µg/L	22.089 ppb	08:31:55
3	Sc 361.383	1873538.4	1873538.4	99.496 %		08:33:35
3	Y 371.029	1402201.4	1402201.4	108.15 %		08:33:35
3	Ag 328.068†	-1418.5	-837.8	-2.1450 µg/L	-2.1450 ppb	08:33:40
3	As 188.979†	10.2	10.0	24.967 µg/L	24.967 ppb	08:34:01
3	B 249.677†	560.8	288.3	-25.153 µg/L	-25.153 ppb	08:33:40
3	Ba 233.527†	5193.3	5250.2	147.08 µg/L	147.08 ppb	08:33:40
3	Be 313.107†	13265.1	16899.2	10.697 µg/L	10.697 ppb	08:33:40
3	Cd 226.502†	86.2	225.0	-1.6883 µg/L	-1.6883 ppb	08:33:40
3	Co 228.616†	183.0	201.6	5.4512 µg/L	5.4512 ppb	08:34:01
3	Cr 267.716†	7825.6	7898.9	183.36 µg/L	183.36 ppb	08:33:40
3	Cu 324.752†	5214.6	2538.7	29.110 µg/L	29.110 ppb	08:33:40
3	Mn 257.610†	834076.9	838568.3	3045.7 µg/L	3045.7 ppb	08:33:35
3	Mo 202.031†	293.0	304.2	36.057 µg/L	36.057 ppb	08:34:01
3	Ni 231.604†	1839.6	1551.4	91.577 µg/L	91.577 ppb	08:33:40
3	P 214.914†	205.7	179.5	350.08 µg/L	350.08 ppb	08:34:01
3	Pb 220.353†	261.5	172.8	47.526 µg/L	47.526 ppb	08:34:01
3	S 181.975 Axial†	18.9	5.0	24.148 µg/L	24.148 ppb	08:34:01
3	Sb 206.836†	32.4	9.7	8.1038 µg/L	8.1038 ppb	08:34:01
3	Se 196.026†	-16.8	-31.6	149.69 µg/L	149.69 ppb	08:34:01
3	SiO2†	60246.2	59222.8	13638 µg/L	13638 ppb	08:33:40
3	Si 251.611†	72150.7	72256.3	6345.6 µg/L	6345.6 ppb	08:33:40
3	Sn 189.927†	-11.0	-9.9	-12.495 µg/L	-12.495 ppb	08:34:01
3	Ti 334.940†	976281.8	981132.6	2491.6 µg/L	2491.6 ppb	08:33:35
3	Tl 190.801†	-49.4	-23.9	9.9598 µg/L	9.9598 ppb	08:34:01
3	U 409.014†	-1910.6	-1918.0	-188.43 µg/L	-188.43 ppb	08:33:35
3	V 292.402†	2170.0	2222.5	34.331 µg/L	34.331 ppb	08:33:40
3	Zn 213.857†	15899.9	15521.2	408.82 µg/L	408.82 ppb	08:33:40

Mean Data: 244628014|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1866359.8	99.115 %	0.7833			0.79%
Sc RADIAL	52127.3	97.2 %	1.18			1.22%
Y 371.029	1399044.0	107.91 %	0.733			0.68%
Ag 328.068†	-879.2	-2.5870 µg/L	0.41493	-2.5870 ppb	0.41493	16.04%
Al 396.153Radial†	22236.0	16496 µg/L	366.1	16496 ppb	366.1	2.22%
As 188.979†	10.5	25.885 µg/L	5.3365	25.885 ppb	5.3365	20.62%
B 249.677†	301.6	-23.697 µg/L	1.7665	-23.697 ppb	1.7665	7.45%
Ba 233.527†	5415.4	151.71 µg/L	4.500	151.71 ppb	4.500	2.97%
Be 313.107†	17515.8	11.098 µg/L	0.3777	11.098 ppb	0.3777	3.40%
Ca 317.933Radial†	3068.0	2967.5 µg/L	36.14	2967.5 ppb	36.14	1.22%
Cd 226.502†	239.4	-1.0798 µg/L	0.65400	-1.0798 ppb	0.65400	60.57%
Co 228.616†	215.5	6.0534 µg/L	0.52238	6.0534 ppb	0.52238	8.63%
Cr 267.716†	8202.1	190.40 µg/L	6.759	190.40 ppb	6.759	3.55%
Cu 324.752†	2605.5	29.385 µg/L	0.4840	29.385 ppb	0.4840	1.65%
Fe 238.204 Radial†	8289.9	73067 µg/L	1402.3	73067 ppb	1402.3	1.92%
K 766.490 Radial†	3205.6	2411.0 µg/L	66.71	2411.0 ppb	66.71	2.77%
Mg 279.077 IEC†	288.4	2665.5 µg/L	49.56	2665.5 ppb	49.56	1.86%
Mn 257.610†	859133.2	3119.9 µg/L	69.48	3119.9 ppb	69.48	2.23%
Mo 202.031†	319.7	37.693 µg/L	1.4590	37.693 ppb	1.4590	3.87%
Na 589.592 Radial†	2769.7	924.36 µg/L	19.243	924.36 ppb	19.243	2.08%

Ni 231.604†	1600.8	94.441 µg/L	3.2770	94.441 ppb	3.2770	3.47%
P 214.914†	191.8	379.17 µg/L	31.373	379.17 ppb	31.373	8.27%
Pb 220.353†	177.3	48.864 µg/L	1.3451	48.864 ppb	1.3451	2.75%
S 181.975 Axial†	4.7	22.594 µg/L	5.8500	22.594 ppb	5.8500	25.89%
Sb 206.836†	7.4	5.6885 µg/L	2.11047	5.6885 ppb	2.11047	37.10%
Se 196.026†	-32.0	144.78 µg/L	9.080	144.78 ppb	9.080	6.27%
SiO2†	61858.2	14244 µg/L	530.6	14244 ppb	530.6	3.73%
Si 251.611†	75460.1	6627.0 µg/L	246.69	6627.0 ppb	246.69	3.72%
Sn 189.927†	-11.4	-13.041 µg/L	0.7089	-13.041 ppb	0.7089	5.44%
Sr 421.552†	1972.0	21.523 µg/L	0.4900	21.523 ppb	0.4900	2.28%
Ti 334.940†	1005647.3	2553.9 µg/L	58.45	2553.9 ppb	58.45	2.29%
Tl 190.801†	-22.3	12.860 µg/L	2.9260	12.860 ppb	2.9260	22.75%
U 409.014†	-1891.7	-185.77 µg/L	5.178	-185.77 ppb	5.178	2.79%
V 292.402†	2272.1	34.737 µg/L	0.7095	34.737 ppb	0.7095	2.04%
Zn 213.857†	15934.0	419.87 µg/L	11.565	419.87 ppb	11.565	2.75%

Sequence No.: 28

Sample ID: 244628015|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 321

Date Collected: 2/9/2010 08:34:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628015|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54214.1	54214.1	101 %		08:34:43
1	Al 396.153Radial†	108937.9	107833.5	80003 µg/L	80003 ppb	08:34:43
1	Ca 317.933Radial†	30394.0	29904.2	28924 µg/L	28924 ppb	08:35:03
1	Fe 238.204 Radial†	11925.5	11789.0	103910 µg/L	103910 ppb	08:35:03
1	K 766.490 Radial†	15700.3	15387.7	11573 µg/L	11573 ppb	08:34:43
1	Mg 279.077 IEC†	1513.3	1486.3	14026 µg/L	14026 ppb	08:35:03
1	Na 589.592 Radial†	2259.7	1735.9	579.33 µg/L	579.33 ppb	08:35:03
1	Sr 421.552†	21339.0	21082.1	230.09 µg/L	230.09 ppb	08:34:43
1	Sc 361.383	1875258.5	1875258.5	99.588 %		08:36:08
1	Y 371.029	1343723.4	1343723.4	103.64 %		08:36:08
1	Ag 328.068†	-1741.8	-1161.2	-2.1248 µg/L	-2.1248 ppb	08:36:13
1	As 188.979†	14.1	14.0	33.592 µg/L	33.592 ppb	08:36:34
1	B 249.677†	1195.4	925.0	-10.696 µg/L	-10.696 ppb	08:36:13
1	Ba 233.527†	31882.4	32045.0	897.72 µg/L	897.72 ppb	08:36:13
1	Be 313.107†	12404.8	16023.1	9.9216 µg/L	9.9216 ppb	08:36:13
1	Cd 226.502†	196.3	335.5	-1.7384 µg/L	-1.7384 ppb	08:36:34
1	Co 228.616†	693.5	714.1	31.483 µg/L	31.483 ppb	08:36:34
1	Cr 267.716†	5341.4	5397.3	125.38 µg/L	125.38 ppb	08:36:13
1	Cu 324.752†	10132.6	7472.3	69.587 µg/L	69.587 ppb	08:36:13
1	Mn 257.610†	733854.0	737161.7	2682.0 µg/L	2682.0 ppb	08:36:08
1	Mo 202.031†	41.5	51.4	9.5587 µg/L	9.5587 ppb	08:36:34
1	Ni 231.604†	1633.1	1342.4	79.716 µg/L	79.716 ppb	08:36:34
1	P 214.914†	637.2	612.6	1324.5 µg/L	1324.5 ppb	08:36:34
1	Pb 220.353†	477.9	389.9	111.46 µg/L	111.46 ppb	08:36:34
1	S 181.975 Axial†	305.8	293.1	1418.1 µg/L	1418.1 ppb	08:36:34
1	Sb 206.836†	40.9	18.2	14.766 µg/L	14.766 ppb	08:36:34
1	Se 196.026†	-36.0	-50.8	181.43 µg/L	181.43 ppb	08:36:34
1	SiO2†	66236.2	65182.1	15010 µg/L	15010 ppb	08:36:13
1	Si 251.611†	79432.5	79501.7	6981.9 µg/L	6981.9 ppb	08:36:13
1	Sn 189.927†	-20.0	-19.0	-18.855 µg/L	-18.855 ppb	08:36:34
1	Ti 334.940†	1153845.3	1158531.1	2941.7 µg/L	2941.7 ppb	08:36:08
1	Tl 190.801†	-49.1	-23.5	19.710 µg/L	19.710 ppb	08:36:34
1	U 409.014†	-1101.2	-1103.5	-118.54 µg/L	-118.54 ppb	08:36:08
1	V 292.402†	13998.4	14097.9	171.37 µg/L	171.37 ppb	08:36:13
1	Zn 213.857†	12573.2	12166.1	317.52 µg/L	317.52 ppb	08:36:13
2	Sc RADIAL	53613.5	53613.5	99.9 %		08:35:09
2	Al 396.153Radial†	110275.4	110380.0	81892 µg/L	81892 ppb	08:35:09
2	Ca 317.933Radial†	30103.0	29950.0	28969 µg/L	28969 ppb	08:35:29
2	Fe 238.204 Radial†	11847.7	11843.4	104390 µg/L	104390 ppb	08:35:29
2	K 766.490 Radial†	15784.1	15645.6	11767 µg/L	11767 ppb	08:35:09
2	Mg 279.077 IEC†	1499.0	1488.8	14050 µg/L	14050 ppb	08:35:29
2	Na 589.592 Radial†	2263.5	1764.8	588.98 µg/L	588.98 ppb	08:35:29
2	Sr 421.552†	21600.4	21580.3	235.53 µg/L	235.53 ppb	08:35:09
2	Sc 361.383	1889110.1	1889110.1	100.32 %		08:36:41
2	Y 371.029	1351699.2	1351699.2	104.26 %		08:36:41
2	Ag 328.068†	-1823.9	-1230.2	-2.6906 µg/L	-2.6906 ppb	08:36:47
2	As 188.979†	7.5	7.3	19.656 µg/L	19.656 ppb	08:37:07
2	B 249.677†	1199.9	920.6	-11.155 µg/L	-11.155 ppb	08:36:47
2	Ba 233.527†	31476.9	31406.1	879.82 µg/L	879.82 ppb	08:36:47
2	Be 313.107†	12191.3	15718.9	9.7335 µg/L	9.7335 ppb	08:36:47
2	Cd 226.502†	207.6	345.3	-1.5041 µg/L	-1.5041 ppb	08:37:07
2	Co 228.616†	685.2	700.7	30.897 µg/L	30.897 ppb	08:37:07
2	Cr 267.716†	5273.9	5290.6	122.90 µg/L	122.90 ppb	08:36:47
2	Cu 324.752†	10016.8	7282.2	68.251 µg/L	68.251 ppb	08:36:47
2	Mn 257.610†	725085.3	723018.2	2630.9 µg/L	2630.9 ppb	08:36:41
2	Mo 202.031†	54.6	64.1	10.965 µg/L	10.965 ppb	08:37:07
2	Ni 231.604†	1605.2	1302.4	77.391 µg/L	77.391 ppb	08:37:07
2	P 214.914†	632.1	602.8	1302.6 µg/L	1302.6 ppb	08:37:07
2	Pb 220.353†	472.7	381.1	109.07 µg/L	109.07 ppb	08:37:07

2	S 181.975 Axial†	305.8	290.8	1407.2 µg/L	1407.2 ppb	08:37:07
2	Sb 206.836†	27.1	4.2	0.4834 µg/L	0.4834 ppb	08:37:07
2	Se 196.026†	-31.8	-46.4	189.76 µg/L	189.76 ppb	08:37:07
2	SiO2†	65414.2	63875.1	14709 µg/L	14709 ppb	08:36:47
2	Si 251.611†	78439.4	77927.0	6843.6 µg/L	6843.6 ppb	08:36:47
2	Sn 189.927†	-27.3	-26.1	-22.375 µg/L	-22.375 ppb	08:37:07
2	Ti 334.940†	1140034.0	1136268.9	2885.1 µg/L	2885.1 ppb	08:36:41
2	Tl 190.801†	-54.6	-28.7	11.541 µg/L	11.541 ppb	08:37:07
2	U 409.014†	-1170.7	-1164.7	-124.29 µg/L	-124.29 ppb	08:36:41
2	V 292.402†	13848.1	13845.0	168.57 µg/L	168.57 ppb	08:36:47
2	Zn 213.857†	12441.3	11942.0	311.55 µg/L	311.55 ppb	08:36:47
3	Sc RADIAL	54145.8	54145.8	101 %		08:35:35
3	Al 396.153Radial†	108230.3	107268.4	79584 µg/L	79584 ppb	08:35:35
3	Ca 317.933Radial†	30056.8	29608.1	28638 µg/L	28638 ppb	08:35:55
3	Fe 238.204 Radial†	11857.3	11736.3	103440 µg/L	103440 ppb	08:35:55
3	K 766.490 Radial†	15619.2	15326.9	11528 µg/L	11528 ppb	08:35:35
3	Mg 279.077 IEC†	1501.7	1476.7	13936 µg/L	13936 ppb	08:35:55
3	Na 589.592 Radial†	2266.7	1745.7	582.59 µg/L	582.59 ppb	08:35:55
3	Sr 421.552†	21202.5	20973.6	228.91 µg/L	228.91 ppb	08:35:35
3	Sc 361.383	1886284.5	1886284.5	100.17 %		08:37:15
3	Y 371.029	1348834.4	1348834.4	104.04 %		08:37:15
3	Ag 328.068†	-1781.5	-1190.6	-2.4454 µg/L	-2.4454 ppb	08:37:20
3	As 188.979†	8.0	7.8	20.633 µg/L	20.633 ppb	08:37:41
3	B 249.677†	1180.6	903.1	-11.488 µg/L	-11.488 ppb	08:37:20
3	Ba 233.527†	30738.9	30716.3	860.50 µg/L	860.50 ppb	08:37:20
3	Be 313.107†	11696.9	15243.7	9.4121 µg/L	9.4121 ppb	08:37:20
3	Cd 226.502†	174.7	312.8	-2.3634 µg/L	-2.3634 ppb	08:37:41
3	Co 228.616†	659.0	675.6	29.607 µg/L	29.607 ppb	08:37:41
3	Cr 267.716†	5117.9	5142.8	119.47 µg/L	119.47 ppb	08:37:20
3	Cu 324.752†	9839.9	7120.5	66.927 µg/L	66.927 ppb	08:37:20
3	Mn 257.610†	720540.3	719563.6	2618.2 µg/L	2618.2 ppb	08:37:15
3	Mo 202.031†	46.9	56.5	10.096 µg/L	10.096 ppb	08:37:41
3	Ni 231.604†	1541.1	1240.8	73.783 µg/L	73.783 ppb	08:37:41
3	P 214.914†	593.7	565.4	1218.0 µg/L	1218.0 ppb	08:37:41
3	Pb 220.353†	458.6	367.7	105.16 µg/L	105.16 ppb	08:37:41
3	S 181.975 Axial†	294.7	280.2	1355.6 µg/L	1355.6 ppb	08:37:41
3	Sb 206.836†	34.9	11.9	8.4793 µg/L	8.4793 ppb	08:37:41
3	Se 196.026†	-20.4	-35.1	205.66 µg/L	205.66 ppb	08:37:41
3	SiO2†	63145.5	61708.0	14210 µg/L	14210 ppb	08:37:20
3	Si 251.611†	75682.3	75291.8	6612.2 µg/L	6612.2 ppb	08:37:20
3	Sn 189.927†	-20.4	-19.3	-18.940 µg/L	-18.940 ppb	08:37:41
3	Ti 334.940†	1131886.7	1129837.9	2868.8 µg/L	2868.8 ppb	08:37:15
3	Tl 190.801†	-55.6	-29.7	9.5181 µg/L	9.5181 ppb	08:37:41
3	U 409.014†	-1090.8	-1086.6	-116.90 µg/L	-116.90 ppb	08:37:15
3	V 292.402†	13472.5	13490.7	164.46 µg/L	164.46 ppb	08:37:20
3	Zn 213.857†	12147.0	11666.8	304.29 µg/L	304.29 ppb	08:37:20

Mean Data: 244628015|950667|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1883551.0	100.03 %	0.389			0.39%
Sc RADIAL	53991.1	101 %	0.6			0.61%
Y 371.029	1348085.7	103.98 %	0.312			0.30%
Ag 328.068†	-1194.0	-2.4203 µg/L	0.28369	-2.4203 ppb	0.28369	11.72%
Al 396.153Radial†	108494.0	80493 µg/L	1229.8	80493 ppb	1229.8	1.53%
As 188.979†	9.7	24.627 µg/L	7.7796	24.627 ppb	7.7796	31.59%
B 249.677†	916.2	-11.113 µg/L	0.3973	-11.113 ppb	0.3973	3.58%
Ba 233.527†	31389.1	879.35 µg/L	18.616	879.35 ppb	18.616	2.12%
Be 313.107†	15661.9	9.6891 µg/L	0.25760	9.6891 ppb	0.25760	2.66%
Ca 317.933Radial†	29820.8	28844 µg/L	179.6	28844 ppb	179.6	0.62%
Cd 226.502†	331.2	-1.8686 µg/L	0.44421	-1.8686 ppb	0.44421	23.77%
Co 228.616†	696.8	30.662 µg/L	0.9599	30.662 ppb	0.9599	3.13%
Cr 267.716†	5276.9	122.58 µg/L	2.968	122.58 ppb	2.968	2.42%
Cu 324.752†	7291.7	68.255 µg/L	1.3301	68.255 ppb	1.3301	1.95%
Fe 238.204 Radial†	11789.6	103910 µg/L	471.8	103910 ppb	471.8	0.45%
K 766.490 Radial†	15453.4	11623 µg/L	127.3	11623 ppb	127.3	1.10%
Mg 279.077 IEC†	1483.9	14004 µg/L	60.1	14004 ppb	60.1	0.43%
Mn 257.610†	726581.2	2643.7 µg/L	33.77	2643.7 ppb	33.77	1.28%
Mo 202.031†	57.3	10.207 µg/L	0.7098	10.207 ppb	0.7098	6.95%
Na 589.592 Radial†	1748.8	583.63 µg/L	4.908	583.63 ppb	4.908	0.84%

Ni 231.604†	1295.2	76.963 µg/L	2.9896	76.963 ppb	2.9896	3.88%
P 214.914†	593.6	1281.7 µg/L	56.26	1281.7 ppb	56.26	4.39%
Pb 220.353†	379.6	108.56 µg/L	3.178	108.56 ppb	3.178	2.93%
S 181.975 Axial†	288.0	1393.7 µg/L	33.40	1393.7 ppb	33.40	2.40%
Sb 206.836†	11.4	7.9097 µg/L	7.15853	7.9097 ppb	7.15853	90.50%
Se 196.026†	-44.1	192.28 µg/L	12.313	192.28 ppb	12.313	6.40%
SiO2†	63588.4	14643 µg/L	404.1	14643 ppb	404.1	2.76%
Si 251.611†	77573.5	6812.6 µg/L	186.80	6812.6 ppb	186.80	2.74%
Sn 189.927†	-21.5	-20.056 µg/L	2.0081	-20.056 ppb	2.0081	10.01%
Sr 421.552†	21212.0	231.51 µg/L	3.531	231.51 ppb	3.531	1.53%
Ti 334.940†	1141545.9	2898.5 µg/L	38.24	2898.5 ppb	38.24	1.32%
Tl 190.801†	-27.3	13.590 µg/L	5.3959	13.590 ppb	5.3959	39.71%
U 409.014†	-1118.2	-119.91 µg/L	3.880	-119.91 ppb	3.880	3.24%
V 292.402†	13811.2	168.13 µg/L	3.474	168.13 ppb	3.474	2.07%
Zn 213.857†	11925.0	311.12 µg/L	6.623	311.12 ppb	6.623	2.13%

Sequence No.: 29

Sample ID: 244628016|950667|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 322

Date Collected: 2/9/2010 08:37:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628016|950667|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	52374.0	52374.0	97.6 %		08:38:23
1	Al 396.153Radial†	21292.6	21830.2	16196 µg/L	16196 ppb	08:38:23
1	Ca 317.933Radial†	3539.9	3449.5	3336.4 µg/L	3336.4 ppb	08:38:43
1	Fe 238.204 Radial†	8423.3	8615.7	75939 µg/L	75939 ppb	08:38:23
1	K 766.490 Radial†	3469.9	3403.7	2560.0 µg/L	2560.0 ppb	08:38:23
1	Mg 279.077 IEC†	265.4	260.5	2396.3 µg/L	2396.3 ppb	08:38:43
1	Na 589.592 Radial†	6021.4	5668.3	1891.7 µg/L	1891.7 ppb	08:38:23
1	Sr 421.552†	1963.1	1973.8	21.542 µg/L	21.542 ppb	08:38:23
1	Sc 361.383	1915202.4	1915202.4	101.71 %		08:39:48
1	Y 371.029	1408737.3	1408737.3	108.66 %		08:39:48
1	Ag 328.068†	-1439.1	-827.1	-1.9957 µg/L	-1.9957 ppb	08:39:53
1	As 188.979†	5.4	5.1	14.853 µg/L	14.853 ppb	08:40:14
1	B 249.677†	583.5	298.3	-25.608 µg/L	-25.608 ppb	08:39:53
1	Ba 233.527†	3767.2	3734.5	104.63 µg/L	104.63 ppb	08:39:53
1	Be 313.107†	9517.4	12924.5	7.9698 µg/L	7.9698 ppb	08:39:53
1	Cd 226.502†	120.3	256.6	-0.9711 µg/L	-0.9711 ppb	08:39:53
1	Co 228.616†	200.6	215.0	6.1941 µg/L	6.1941 ppb	08:40:14
1	Cr 267.716†	1277.3	1289.6	29.947 µg/L	29.947 ppb	08:39:53
1	Cu 324.752†	4629.8	1849.7	24.206 µg/L	24.206 ppb	08:39:53
1	Mn 257.610†	788904.4	775918.3	2819.1 µg/L	2819.1 ppb	08:39:48
1	Mo 202.031†	39.9	48.9	8.2298 µg/L	8.2298 ppb	08:40:14
1	Ni 231.604†	604.9	297.2	18.333 µg/L	18.333 ppb	08:40:14
1	P 214.914†	503.3	467.5	1003.8 µg/L	1003.8 ppb	08:40:14
1	Pb 220.353†	285.3	190.5	52.391 µg/L	52.391 ppb	08:40:14
1	S 181.975 Axial†	40.7	25.9	125.54 µg/L	125.54 ppb	08:40:14
1	Sb 206.836†	24.0	0.7	0.2059 µg/L	0.2059 ppb	08:40:14
1	Se 196.026†	-25.7	-40.0	139.91 µg/L	139.91 ppb	08:40:14
1	SiO2†	74122.7	71548.9	16476 µg/L	16476 ppb	08:39:53
1	Si 251.611†	89116.2	87359.2	7672.0 µg/L	7672.0 ppb	08:39:53
1	Sn 189.927†	-9.9	-8.7	-12.060 µg/L	-12.060 ppb	08:40:14
1	Ti 334.940†	985268.4	968622.3	2459.9 µg/L	2459.9 ppb	08:39:48
1	Tl 190.801†	-48.2	-21.6	12.217 µg/L	12.217 ppb	08:40:14
1	U 409.014†	-1842.1	-1808.9	-178.52 µg/L	-178.52 ppb	08:39:48
1	V 292.402†	1908.9	1918.4	30.498 µg/L	30.498 ppb	08:39:53
1	Zn 213.857†	18739.8	17965.7	474.15 µg/L	474.15 ppb	08:39:53
2	Sc RADIAL	53680.4	53680.4	100 %		08:38:49
2	Al 396.153Radial†	21348.0	21354.6	15843 µg/L	15843 ppb	08:38:49
2	Ca 317.933Radial†	3528.0	3349.3	3239.6 µg/L	3239.6 ppb	08:39:09
2	Fe 238.204 Radial†	8450.6	8433.0	74328 µg/L	74328 ppb	08:38:49
2	K 766.490 Radial†	3455.7	3303.0	2484.3 µg/L	2484.3 ppb	08:38:49
2	Mg 279.077 IEC†	263.3	251.8	2315.2 µg/L	2315.2 ppb	08:39:09
2	Na 589.592 Radial†	5955.9	5452.7	1819.8 µg/L	1819.8 ppb	08:38:49
2	Sr 421.552†	1919.6	1881.4	20.534 µg/L	20.534 ppb	08:38:49
2	Sc 361.383	1904955.4	1904955.4	101.16 %		08:40:21
2	Y 371.029	1404245.9	1404245.9	108.31 %		08:40:21
2	Ag 328.068†	-1445.4	-841.0	-2.2141 µg/L	-2.2141 ppb	08:40:27
2	As 188.979†	6.1	5.8	16.135 µg/L	16.135 ppb	08:40:47
2	B 249.677†	573.4	291.3	-25.091 µg/L	-25.091 ppb	08:40:27
2	Ba 233.527†	3740.8	3728.3	104.45 µg/L	104.45 ppb	08:40:27
2	Be 313.107†	9570.1	13026.8	8.0301 µg/L	8.0301 ppb	08:40:27
2	Cd 226.502†	116.8	253.8	-0.8727 µg/L	-0.8727 ppb	08:40:27
2	Co 228.616†	194.9	210.4	5.8986 µg/L	5.8986 ppb	08:40:47
2	Cr 267.716†	1269.9	1289.1	29.934 µg/L	29.934 ppb	08:40:27
2	Cu 324.752†	4676.1	1920.0	24.501 µg/L	24.501 ppb	08:40:27
2	Mn 257.610†	792734.4	783876.4	2847.7 µg/L	2847.7 ppb	08:40:21
2	Mo 202.031†	42.2	51.3	8.4313 µg/L	8.4313 ppb	08:40:47
2	Ni 231.604†	605.7	301.2	18.548 µg/L	18.548 ppb	08:40:47
2	P 214.914†	508.6	475.5	1022.9 µg/L	1022.9 ppb	08:40:47
2	Pb 220.353†	288.9	195.5	53.865 µg/L	53.865 ppb	08:40:47

2	S 181.975 Axial†	35.2	20.8	100.69 µg/L	100.69 ppb	08:40:47
2	Sb 206.836†	25.1	1.9	1.4540 µg/L	1.4540 ppb	08:40:47
2	Se 196.026†	-13.2	-27.8	155.37 µg/L	155.37 ppb	08:40:47
2	SiO2†	73084.6	70914.8	16330 µg/L	16330 ppb	08:40:27
2	Si 251.611†	87821.7	86550.9	7601.0 µg/L	7601.0 ppb	08:40:27
2	Sn 189.927†	-19.2	-17.9	-16.395 µg/L	-16.395 ppb	08:40:47
2	Ti 334.940†	990795.6	979296.6	2487.0 µg/L	2487.0 ppb	08:40:21
2	Tl 190.801†	-47.7	-21.4	12.659 µg/L	12.659 ppb	08:40:47
2	U 409.014†	-1794.8	-1771.8	-174.85 µg/L	-174.85 ppb	08:40:21
2	V 292.402†	1889.5	1909.3	30.212 µg/L	30.212 ppb	08:40:27
2	Zn 213.857†	18693.7	18019.3	475.66 µg/L	475.66 ppb	08:40:27
3	Sc RADIAL	53688.6	53688.6	100 %		08:39:15
3	Al 396.153Radial†	21777.2	21780.4	16159 µg/L	16159 ppb	08:39:15
3	Ca 317.933Radial†	3563.2	3384.0	3273.1 µg/L	3273.1 ppb	08:39:35
3	Fe 238.204 Radial†	8662.3	8643.3	76182 µg/L	76182 ppb	08:39:15
3	K 766.490 Radial†	3535.7	3382.4	2544.0 µg/L	2544.0 ppb	08:39:15
3	Mg 279.077 IEC†	265.9	254.3	2337.7 µg/L	2337.7 ppb	08:39:35
3	Na 589.592 Radial†	5977.5	5473.4	1826.7 µg/L	1826.7 ppb	08:39:15
3	Sr 421.552†	2004.4	1965.8	21.455 µg/L	21.455 ppb	08:39:15
3	Sc 361.383	1933674.1	1933674.1	102.69 %		08:40:55
3	Y 371.029	1419290.9	1419290.9	109.47 %		08:40:55
3	Ag 328.068†	-1479.4	-852.8	-2.2048 µg/L	-2.2048 ppb	08:41:00
3	As 188.979†	8.7	8.2	21.316 µg/L	21.316 ppb	08:41:21
3	B 249.677†	576.2	285.7	-26.325 µg/L	-26.325 ppb	08:41:00
3	Ba 233.527†	3599.8	3536.1	99.066 µg/L	99.066 ppb	08:41:00
3	Be 313.107†	8919.3	12252.6	7.5416 µg/L	7.5416 ppb	08:41:00
3	Cd 226.502†	99.4	235.1	-1.6358 µg/L	-1.6358 ppb	08:41:00
3	Co 228.616†	182.0	194.9	5.3302 µg/L	5.3302 ppb	08:41:21
3	Cr 267.716†	1235.8	1237.2	28.730 µg/L	28.730 ppb	08:41:00
3	Cu 324.752†	4611.8	1788.7	23.790 µg/L	23.790 ppb	08:41:00
3	Mn 257.610†	768810.9	748941.6	2721.4 µg/L	2721.4 ppb	08:40:55
3	Mo 202.031†	34.2	43.0	7.5932 µg/L	7.5932 ppb	08:41:21
3	Ni 231.604†	594.6	281.5	17.422 µg/L	17.422 ppb	08:41:21
3	P 214.914†	480.1	440.3	941.76 µg/L	941.76 ppb	08:41:21
3	Pb 220.353†	287.7	190.2	52.287 µg/L	52.287 ppb	08:41:21
3	S 181.975 Axial†	36.1	21.1	102.28 µg/L	102.28 ppb	08:41:21
3	Sb 206.836†	26.9	3.4	2.9068 µg/L	2.9068 ppb	08:41:21
3	Se 196.026†	-27.8	-41.7	137.82 µg/L	137.82 ppb	08:41:21
3	SiO2†	70161.0	66994.8	15427 µg/L	15427 ppb	08:41:00
3	Si 251.611†	84326.6	81858.0	7188.8 µg/L	7188.8 ppb	08:41:00
3	Sn 189.927†	-11.5	-10.0	-12.764 µg/L	-12.764 ppb	08:41:21
3	Ti 334.940†	957814.1	932633.4	2368.5 µg/L	2368.5 ppb	08:40:55
3	Tl 190.801†	-51.9	-24.7	6.4156 µg/L	6.4156 ppb	08:41:21
3	U 409.014†	-1794.0	-1744.7	-172.59 µg/L	-172.59 ppb	08:40:55
3	V 292.402†	1801.8	1796.2	29.148 µg/L	29.148 ppb	08:41:00
3	Zn 213.857†	18128.4	17194.3	453.62 µg/L	453.62 ppb	08:41:00

Mean Data: 244628016|950667|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1917944.0	101.85 %		0.773			0.76%
Sc RADIAL	53247.7	99.2 %		1.441			1.42%
Y 371.029	1410758.0	108.81 %		0.596			0.55%
Ag 328.068†	-840.3	-2.1382 µg/L		0.12348	-2.1382 ppb	0.12348	5.78%
Al 396.153Radial†	21655.1	16066 µg/L		193.9	16066 ppb	193.9	1.21%
As 188.979†	6.4	17.435 µg/L		3.4221	17.435 ppb	3.4221	19.63%
B 249.677†	291.8	-25.674 µg/L		0.6197	-25.674 ppb	0.6197	2.41%
Ba 233.527†	3666.3	102.71 µg/L		3.161	102.71 ppb	3.161	3.08%
Be 313.107†	12734.6	7.8472 µg/L		0.26631	7.8472 ppb	0.26631	3.39%
Ca 317.933Radial†	3394.2	3283.0 µg/L		49.19	3283.0 ppb	49.19	1.50%
Cd 226.502†	248.5	-1.1599 µg/L		0.41511	-1.1599 ppb	0.41511	35.79%
Co 228.616†	206.8	5.8076 µg/L		0.43907	5.8076 ppb	0.43907	7.56%
Cr 267.716†	1272.0	29.537 µg/L		0.6990	29.537 ppb	0.6990	2.37%
Cu 324.752†	1852.8	24.166 µg/L		0.3572	24.166 ppb	0.3572	1.48%
Fe 238.204 Radial†	8564.0	75483 µg/L		1007.6	75483 ppb	1007.6	1.33%
K 766.490 Radial†	3363.0	2529.4 µg/L		39.92	2529.4 ppb	39.92	1.58%
Mg 279.077 IEC†	255.5	2349.7 µg/L		41.86	2349.7 ppb	41.86	1.78%
Mn 257.610†	769578.8	2796.1 µg/L		66.19	2796.1 ppb	66.19	2.37%
Mo 202.031†	47.8	8.0848 µg/L		0.43743	8.0848 ppb	0.43743	5.41%
Na 589.592 Radial†	5531.4	1846.0 µg/L		39.70	1846.0 ppb	39.70	2.15%

Ni 231.604†	293.3	18.101 µg/L	0.5980	18.101 ppb	0.5980	3.30%
P 214.914†	461.1	989.49 µg/L	42.422	989.49 ppb	42.422	4.29%
Pb 220.353†	192.1	52.848 µg/L	0.8827	52.848 ppb	0.8827	1.67%
S 181.975 Axial†	22.6	109.50 µg/L	13.909	109.50 ppb	13.909	12.70%
Sb 206.836†	2.0	1.5222 µg/L	1.35173	1.5222 ppb	1.35173	88.80%
Se 196.026†	-36.5	144.37 µg/L	9.583	144.37 ppb	9.583	6.64%
SiO2†	69819.5	16078 µg/L	568.0	16078 ppb	568.0	3.53%
Si 251.611†	85256.0	7487.3 µg/L	260.86	7487.3 ppb	260.86	3.48%
Sn 189.927†	-12.2	-13.740 µg/L	2.3264	-13.740 ppb	2.3264	16.93%
Sr 421.552†	1940.3	21.177 µg/L	0.5586	21.177 ppb	0.5586	2.64%
Ti 334.940†	960184.1	2438.4 µg/L	62.09	2438.4 ppb	62.09	2.55%
Tl 190.801†	-22.6	10.431 µg/L	3.4842	10.431 ppb	3.4842	33.40%
U 409.014†	-1775.1	-175.32 µg/L	2.991	-175.32 ppb	2.991	1.71%
V 292.402†	1874.6	29.953 µg/L	0.7116	29.953 ppb	0.7116	2.38%
Zn 213.857†	17726.4	467.81 µg/L	12.308	467.81 ppb	12.308	2.63%

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/9/2010 08:41:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	54292.8	54292.8	101 %			08:42:09
1	Al 396.153Radial†	6133.1	6077.4	4498.9 µg/L		4498.9 ppb	08:42:09
1	Ca 317.933Radial†	4858.1	4624.0	4472.5 µg/L		4472.5 ppb	08:42:29
1	Fe 238.204 Radial†	548.3	528.0	4664.4 µg/L		4664.4 ppb	08:42:29
1	K 766.490 Radial†	6544.1	6316.3	4750.6 µg/L		4750.6 ppb	08:42:09
1	Mg 279.077 IEC†	506.5	489.1	4656.1 µg/L		4656.1 ppb	08:42:29
1	Na 589.592 Radial†	28179.4	27348.6	9127.2 µg/L		9127.2 ppb	08:42:09
1	Sr 421.552†	42662.1	42124.7	459.76 µg/L		459.76 ppb	08:42:09
1	Sc 361.383	1906382.6	1906382.6	101.24 %			08:43:33
1	Y 371.029	1306261.8	1306261.8	100.75 %			08:43:33
1	Ag 328.068†	57650.9	57532.3	485.01 µg/L		485.01 ppb	08:43:38
1	As 188.979†	244.9	241.7	501.92 µg/L		501.92 ppb	08:43:59
1	B 249.677†	10516.1	10111.8	471.95 µg/L		471.95 ppb	08:43:38
1	Ba 233.527†	17399.9	17217.3	483.05 µg/L		483.05 ppb	08:43:38
1	Be 313.107†	689202.4	684323.6	471.43 µg/L		471.43 ppb	08:43:33
1	Cd 226.502†	16407.0	16344.3	483.52 µg/L		483.52 ppb	08:43:38
1	Co 228.616†	9305.0	9208.7	484.53 µg/L		484.53 ppb	08:43:38
1	Cr 267.716†	21072.0	20847.5	484.20 µg/L		484.20 ppb	08:43:38
1	Cu 324.752†	68616.1	65072.9	480.87 µg/L		480.87 ppb	08:43:38
1	Mn 257.610†	132196.6	130846.5	474.14 µg/L		474.14 ppb	08:43:33
1	Mo 202.031†	4521.6	4475.9	489.05 µg/L		489.05 ppb	08:43:59
1	Ni 231.604†	8690.8	8286.7	483.53 µg/L		483.53 ppb	08:43:38
1	P 214.914†	1129.8	1088.7	2428.0 µg/L		2428.0 ppb	08:43:59
1	Pb 220.353†	1854.3	1741.5	495.91 µg/L		495.91 ppb	08:43:59
1	S 181.975 Axial†	220.9	204.2	988.01 µg/L		988.01 ppb	08:43:59
1	Sb 206.836†	515.5	486.3	499.50 µg/L		499.50 ppb	08:43:59
1	Se 196.026†	317.3	298.7	489.39 µg/L		489.39 ppb	08:43:59
1	SiO2†	24125.0	22501.0	5181.4 µg/L		5181.4 ppb	08:43:38
1	Si 251.611†	28225.2	27619.7	2425.6 µg/L		2425.6 ppb	08:43:38
1	Sn 189.927†	1038.3	1026.7	501.67 µg/L		501.67 ppb	08:43:59
1	Ti 334.940†	188782.5	186378.5	473.05 µg/L		473.05 ppb	08:43:33
1	Tl 190.801†	302.4	324.5	489.26 µg/L		489.26 ppb	08:43:59
1	U 409.014†	5292.8	5230.2	484.13 µg/L		484.13 ppb	08:43:38
1	V 292.402†	43238.9	42750.6	487.83 µg/L		487.83 ppb	08:43:38
1	Zn 213.857†	18897.7	18207.0	481.02 µg/L		481.02 ppb	08:43:38
2	Sc RADIAL	54394.8	54394.8	101 %			08:42:35
2	Al 396.153Radial†	6204.0	6136.0	4542.3 µg/L		4542.3 ppb	08:42:35
2	Ca 317.933Radial†	4842.9	4600.0	4449.3 µg/L		4449.3 ppb	08:42:55
2	Fe 238.204 Radial†	543.2	522.0	4611.6 µg/L		4611.6 ppb	08:42:55
2	K 766.490 Radial†	6608.1	6367.3	4789.0 µg/L		4789.0 ppb	08:42:35
2	Mg 279.077 IEC†	509.6	491.2	4675.9 µg/L		4675.9 ppb	08:42:55
2	Na 589.592 Radial†	28474.6	27587.6	9206.9 µg/L		9206.9 ppb	08:42:35
2	Sr 421.552†	43209.7	42585.8	464.79 µg/L		464.79 ppb	08:42:35
2	Sc 361.383	1904583.2	1904583.2	101.15 %			08:44:06
2	Y 371.029	1304373.3	1304373.3	100.61 %			08:44:06
2	Ag 328.068†	58104.1	58034.1	489.23 µg/L		489.23 ppb	08:44:12
2	As 188.979†	240.9	237.9	494.20 µg/L		494.20 ppb	08:44:32
2	B 249.677†	10593.6	10198.3	476.04 µg/L		476.04 ppb	08:44:12
2	Ba 233.527†	17521.7	17354.0	486.88 µg/L		486.88 ppb	08:44:12
2	Be 313.107†	699199.4	694850.6	478.68 µg/L		478.68 ppb	08:44:06
2	Cd 226.502†	16551.5	16502.5	488.21 µg/L		488.21 ppb	08:44:12
2	Co 228.616†	9368.4	9280.1	488.28 µg/L		488.28 ppb	08:44:12
2	Cr 267.716†	21268.3	21061.3	489.17 µg/L		489.17 ppb	08:44:12
2	Cu 324.752†	69416.0	65927.8	487.18 µg/L		487.18 ppb	08:44:12
2	Mn 257.610†	134066.8	132818.9	481.27 µg/L		481.27 ppb	08:44:06
2	Mo 202.031†	4505.4	4464.1	487.75 µg/L		487.75 ppb	08:44:32
2	Ni 231.604†	8802.3	8405.1	490.43 µg/L		490.43 ppb	08:44:12
2	P 214.914†	1128.0	1088.0	2425.6 µg/L		2425.6 ppb	08:44:32
2	Pb 220.353†	1855.2	1744.2	496.66 µg/L		496.66 ppb	08:44:32

2	S 181.975 Axial†	224.7	208.1	1006.9 µg/L	1006.9 ppb	08:44:32
2	Sb 206.836†	504.8	476.2	489.12 µg/L	489.12 ppb	08:44:32
2	Se 196.026†	326.1	307.7	503.70 µg/L	503.70 ppb	08:44:32
2	SiO2†	24433.9	22829.0	5256.9 µg/L	5256.9 ppb	08:44:12
2	Si 251.611†	28548.9	27966.0	2456.0 µg/L	2456.0 ppb	08:44:12
2	Sn 189.927†	1038.5	1027.8	502.22 µg/L	502.22 ppb	08:44:32
2	Ti 334.940†	191670.7	189410.2	480.75 µg/L	480.75 ppb	08:44:06
2	Tl 190.801†	309.3	331.6	499.95 µg/L	499.95 ppb	08:44:32
2	U 409.014†	5288.5	5230.9	484.21 µg/L	484.21 ppb	08:44:12
2	V 292.402†	43529.3	43078.0	491.51 µg/L	491.51 ppb	08:44:12
2	Zn 213.857†	19071.8	18396.7	486.03 µg/L	486.03 ppb	08:44:12
3	Sc RADIAL	54623.8	54623.8	102 %		08:43:01
3	Al 396.153Radial†	6208.1	6114.4	4527.6 µg/L	4527.6 ppb	08:43:01
3	Ca 317.933Radial†	4851.3	4588.2	4437.9 µg/L	4437.9 ppb	08:43:21
3	Fe 238.204 Radial†	543.5	520.1	4594.0 µg/L	4594.0 ppb	08:43:21
3	K 766.490 Radial†	6603.3	6335.2	4764.9 µg/L	4764.9 ppb	08:43:01
3	Mg 279.077 IEC†	508.1	487.7	4641.6 µg/L	4641.6 ppb	08:43:21
3	Na 589.592 Radial†	28544.4	27538.4	9190.6 µg/L	9190.6 ppb	08:43:01
3	Sr 421.552†	43502.7	42694.9	465.98 µg/L	465.98 ppb	08:43:01
3	Sc 361.383	1878003.6	1878003.6	99.734 %		08:44:39
3	Y 371.029	1286754.7	1286754.7	99.247 %		08:44:39
3	Ag 328.068†	56103.9	56841.6	479.11 µg/L	479.11 ppb	08:44:45
3	As 188.979†	210.9	211.2	438.76 µg/L	438.76 ppb	08:45:06
3	B 249.677†	10254.9	10006.9	467.04 µg/L	467.04 ppb	08:44:45
3	Ba 233.527†	16743.4	16818.8	471.85 µg/L	471.85 ppb	08:44:45
3	Be 313.107†	682162.4	687551.9	473.66 µg/L	473.66 ppb	08:44:39
3	Cd 226.502†	15711.5	15891.8	470.12 µg/L	470.12 ppb	08:44:45
3	Co 228.616†	8844.0	8885.4	467.44 µg/L	467.44 ppb	08:44:45
3	Cr 267.716†	19761.9	19848.5	461.00 µg/L	461.00 ppb	08:44:45
3	Cu 324.752†	65784.1	63257.5	467.47 µg/L	467.47 ppb	08:44:45
3	Mn 257.610†	131184.3	131804.8	477.60 µg/L	477.60 ppb	08:44:39
3	Mo 202.031†	3892.5	3912.5	427.51 µg/L	427.51 ppb	08:45:06
3	Ni 231.604†	8296.5	8021.1	468.03 µg/L	468.03 ppb	08:44:45
3	P 214.914†	999.5	975.0	2169.9 µg/L	2169.9 ppb	08:45:06
3	Pb 220.353†	1662.5	1576.9	448.93 µg/L	448.93 ppb	08:45:06
3	S 181.975 Axial†	200.9	187.4	906.76 µg/L	906.76 ppb	08:45:06
3	Sb 206.836†	454.5	432.9	444.16 µg/L	444.16 ppb	08:45:06
3	Se 196.026†	287.4	273.5	448.45 µg/L	448.45 ppb	08:45:06
3	SiO2†	23319.4	22053.4	5078.3 µg/L	5078.3 ppb	08:44:45
3	Si 251.611†	27223.9	27037.0	2374.4 µg/L	2374.4 ppb	08:44:45
3	Sn 189.927†	888.2	891.7	435.72 µg/L	435.72 ppb	08:45:06
3	Ti 334.940†	186564.6	186972.5	474.56 µg/L	474.56 ppb	08:44:39
3	Tl 190.801†	286.4	312.9	472.08 µg/L	472.08 ppb	08:45:06
3	U 409.014†	4932.7	4948.2	457.99 µg/L	457.99 ppb	08:44:45
3	V 292.402†	41024.5	41175.7	469.51 µg/L	469.51 ppb	08:44:45
3	Zn 213.857†	18073.4	17662.5	466.63 µg/L	466.63 ppb	08:44:45

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1896323.1	100.71 %	0.844			0.84%
Sc RADIAL	54437.1	101 %	0.3			0.31%
Y 371.029	1299130.0	100.20 %	0.830			0.83%
Ag 328.068†	57469.3	484.45 µg/L	5.085	484.45 ppb	5.085	1.05%
QC value within limits for Ag 328.068 Recovery = 96.89%						
Al 396.153Radial†	6109.3	4522.9 µg/L	22.10	4522.9 ppb	22.10	0.49%
QC value within limits for Al 396.153Radial Recovery = 90.46%						
As 188.979†	230.3	478.29 µg/L	34.454	478.29 ppb	34.454	7.20%
QC value within limits for As 188.979 Recovery = 95.66%						
B 249.677†	10105.7	471.67 µg/L	4.506	471.67 ppb	4.506	0.96%
QC value within limits for B 249.677 Recovery = 94.33%						
Ba 233.527†	17130.0	480.59 µg/L	7.808	480.59 ppb	7.808	1.62%
QC value within limits for Ba 233.527 Recovery = 96.12%						
Be 313.107†	688908.7	474.59 µg/L	3.715	474.59 ppb	3.715	0.78%
QC value within limits for Be 313.107 Recovery = 94.92%						
Ca 317.933Radial†	4604.1	4453.2 µg/L	17.62	4453.2 ppb	17.62	0.40%
QC value less than the lower limit for Ca 317.933Radial Recovery = 89.06%						
Cd 226.502†	16246.2	480.61 µg/L	9.386	480.61 ppb	9.386	1.95%
QC value within limits for Cd 226.502 Recovery = 96.12%						
Co 228.616†	9124.7	480.09 µg/L	11.107	480.09 ppb	11.107	2.31%

QC value within limits for Co 228.616 Recovery = 96.02%							
Cr 267.716†	20585.8	478.13 µg/L	15.034	478.13 ppb	15.034	3.14%	
QC value within limits for Cr 267.716 Recovery = 95.63%							
Cu 324.752†	64752.7	478.51 µg/L	10.066	478.51 ppb	10.066	2.10%	
QC value within limits for Cu 324.752 Recovery = 95.70%							
Fe 238.204 Radial†	523.4	4623.3 µg/L	36.64	4623.3 ppb	36.64	0.79%	
QC value within limits for Fe 238.204 Radial Recovery = 92.47%							
K 766.490 Radial†	6339.6	4768.2 µg/L	19.38	4768.2 ppb	19.38	0.41%	
QC value within limits for K 766.490 Radial Recovery = 95.36%							
Mg 279.077 IEC†	489.4	4657.9 µg/L	17.24	4657.9 ppb	17.24	0.37%	
QC value within limits for Mg 279.077 IEC Recovery = 93.16%							
Mn 257.610†	131823.4	477.67 µg/L	3.567	477.67 ppb	3.567	0.75%	
QC value within limits for Mn 257.610 Recovery = 95.53%							
Mo 202.031†	4284.2	468.10 µg/L	35.161	468.10 ppb	35.161	7.51%	
QC value within limits for Mo 202.031 Recovery = 93.62%							
Na 589.592 Radial†	27491.5	9174.9 µg/L	42.12	9174.9 ppb	42.12	0.46%	
QC value within limits for Na 589.592 Radial Recovery = 91.75%							
Ni 231.604†	8237.6	480.66 µg/L	11.472	480.66 ppb	11.472	2.39%	
QC value within limits for Ni 231.604 Recovery = 96.13%							
P 214.914†	1050.6	2341.2 µg/L	148.30	2341.2 ppb	148.30	6.33%	
QC value within limits for P 214.914 Recovery = 93.65%							
Pb 220.353†	1687.6	480.50 µg/L	27.342	480.50 ppb	27.342	5.69%	
QC value within limits for Pb 220.353 Recovery = 96.10%							
S 181.975 Axial†	199.9	967.22 µg/L	53.201	967.22 ppb	53.201	5.50%	
QC value within limits for S 181.975 Axial Recovery = 96.72%							
Sb 206.836†	465.1	477.59 µg/L	29.419	477.59 ppb	29.419	6.16%	
QC value within limits for Sb 206.836 Recovery = 95.52%							
Se 196.026†	293.3	480.52 µg/L	28.676	480.52 ppb	28.676	5.97%	
QC value within limits for Se 196.026 Recovery = 96.10%							
SiO2†	22461.1	5172.2 µg/L	89.66	5172.2 ppb	89.66	1.73%	
QC value within limits for SiO2 Recovery = 96.72%							
Si 251.611†	27540.9	2418.7 µg/L	41.23	2418.7 ppb	41.23	1.70%	
QC value within limits for Si 251.611 Recovery = 96.75%							
Sn 189.927†	982.1	479.87 µg/L	38.235	479.87 ppb	38.235	7.97%	
QC value within limits for Sn 189.927 Recovery = 95.97%							
Sr 421.552†	42468.5	463.51 µg/L	3.304	463.51 ppb	3.304	0.71%	
QC value within limits for Sr 421.552 Recovery = 92.70%							
Ti 334.940†	187587.1	476.12 µg/L	4.079	476.12 ppb	4.079	0.86%	
QC value within limits for Ti 334.940 Recovery = 95.22%							
Tl 190.801†	323.0	487.09 µg/L	14.062	487.09 ppb	14.062	2.89%	
QC value within limits for Tl 190.801 Recovery = 97.42%							
U 409.014†	5136.4	475.45 µg/L	15.114	475.45 ppb	15.114	3.18%	
QC value within limits for U 409.014 Recovery = 95.09%							
V 292.402†	42334.7	482.95 µg/L	11.784	482.95 ppb	11.784	2.44%	
QC value within limits for V 292.402 Recovery = 96.59%							
Zn 213.857†	18088.7	477.89 µg/L	10.071	477.89 ppb	10.071	2.11%	
QC value within limits for Zn 213.857 Recovery = 95.58%							
QC Failed. Continue with analysis.							

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/9/2010 08:45:15

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	52902.3	52902.3	98.6 %		08:45:48
1	Al 396.153Radial†	-33.8	-18.1	-13.420 µg/L	-13.420 ppb	08:45:48
1	Ca 317.933Radial†	175.7	1.1	1.0461 µg/L	1.0461 ppb	08:46:08
1	Fe 238.204 Radial†	16.7	3.1	27.509 µg/L	27.509 ppb	08:46:08
1	K 766.490 Radial†	183.4	34.9	26.227 µg/L	26.227 ppb	08:45:48
1	Mg 279.077 IEC†	13.1	1.9	18.075 µg/L	18.075 ppb	08:46:08
1	Na 589.592 Radial†	452.0	-42.0	-14.026 µg/L	-14.026 ppb	08:45:48
1	Sr 421.552†	24.5	-12.5	-0.1362 µg/L	-0.1362 ppb	08:45:48
1	Sc 361.383	1907706.3	1907706.3	101.31 %		08:47:10
1	Y 371.029	1312924.9	1312924.9	101.27 %		08:47:10
1	Ag 328.068†	-586.0	9.4	0.0800 µg/L	0.0800 ppb	08:47:15
1	As 188.979†	-0.7	-0.9	-1.9163 µg/L	-1.9163 ppb	08:47:36
1	B 249.677†	307.4	28.0	1.2967 µg/L	1.2967 ppb	08:47:36
1	Ba 233.527†	-19.8	11.1	0.3094 µg/L	0.3094 ppb	08:47:36
1	Be 313.107†	-3704.8	-89.8	-0.0620 µg/L	-0.0620 ppb	08:47:15
1	Cd 226.502†	-141.7	-1.6	-0.0494 µg/L	-0.0494 ppb	08:47:36
1	Co 228.616†	-21.0	-2.9	-0.1554 µg/L	-0.1554 ppb	08:47:36
1	Cr 267.716†	-32.4	1.8	0.0410 µg/L	0.0410 ppb	08:47:15
1	Cu 324.752†	2747.8	10.0	0.0773 µg/L	0.0773 ppb	08:47:15
1	Mn 257.610†	-191.4	81.0	0.2963 µg/L	0.2963 ppb	08:47:36
1	Mo 202.031†	-8.8	1.0	0.1064 µg/L	0.1064 ppb	08:47:36
1	Ni 231.604†	296.6	-4.8	-0.2778 µg/L	-0.2778 ppb	08:47:36
1	P 214.914†	35.9	8.2	18.551 µg/L	18.551 ppb	08:47:36
1	Pb 220.353†	97.1	5.8	1.6570 µg/L	1.6570 ppb	08:47:36
1	S 181.975 Axial†	16.9	2.6	12.782 µg/L	12.782 ppb	08:47:36
1	Sb 206.836†	18.0	-5.1	-5.2339 µg/L	-5.2339 ppb	08:47:36
1	Se 196.026†	14.2	-0.6	-0.9898 µg/L	-0.9898 ppb	08:47:36
1	SiO2†	1400.9	54.4	12.538 µg/L	12.538 ppb	08:47:15
1	Si 251.611†	372.1	107.6	9.4524 µg/L	9.4524 ppb	08:47:36
1	Sn 189.927†	0.1	1.2	0.6058 µg/L	0.6058 ppb	08:47:36
1	Ti 334.940†	181.1	88.2	0.2226 µg/L	0.2226 ppb	08:47:15
1	Tl 190.801†	-19.1	7.0	10.381 µg/L	10.381 ppb	08:47:36
1	U 409.014†	-87.6	-84.2	-7.8089 µg/L	-7.8089 ppb	08:47:15
1	V 292.402†	-50.5	-8.3	-0.0980 µg/L	-0.0980 ppb	08:47:15
1	Zn 213.857†	475.0	9.7	0.2563 µg/L	0.2563 ppb	08:47:36
2	Sc RADIAL	52867.4	52867.4	98.5 %		08:46:14
2	Al 396.153Radial†	-37.9	-22.3	-16.549 µg/L	-16.549 ppb	08:46:14
2	Ca 317.933Radial†	171.9	-2.7	-2.5804 µg/L	-2.5804 ppb	08:46:34
2	Fe 238.204 Radial†	19.3	5.7	50.558 µg/L	50.558 ppb	08:46:34
2	K 766.490 Radial†	140.9	-8.1	-6.1180 µg/L	-6.1180 ppb	08:46:14
2	Mg 279.077 IEC†	10.7	-0.6	-5.3337 µg/L	-5.3337 ppb	08:46:34
2	Na 589.592 Radial†	461.8	-31.8	-10.620 µg/L	-10.620 ppb	08:46:14
2	Sr 421.552†	32.9	-3.9	-0.0430 µg/L	-0.0430 ppb	08:46:14
2	Sc 361.383	1896906.2	1896906.2	100.74 %		08:47:42
2	Y 371.029	1305544.0	1305544.0	100.70 %		08:47:42
2	Ag 328.068†	-586.8	5.3	0.0494 µg/L	0.0494 ppb	08:47:48
2	As 188.979†	-1.1	-1.3	-2.6887 µg/L	-2.6887 ppb	08:48:08
2	B 249.677†	290.3	12.7	0.5685 µg/L	0.5685 ppb	08:48:08
2	Ba 233.527†	-25.6	5.2	0.1470 µg/L	0.1470 ppb	08:48:08
2	Be 313.107†	-3691.7	-97.7	-0.0674 µg/L	-0.0674 ppb	08:47:48
2	Cd 226.502†	-138.2	1.2	0.0282 µg/L	0.0282 ppb	08:48:08
2	Co 228.616†	-6.3	11.4	0.6027 µg/L	0.6027 ppb	08:48:08
2	Cr 267.716†	-61.3	-27.1	-0.6279 µg/L	-0.6279 ppb	08:47:48
2	Cu 324.752†	2805.2	82.3	0.6145 µg/L	0.6145 ppb	08:47:48
2	Mn 257.610†	-211.1	60.4	0.2256 µg/L	0.2256 ppb	08:48:08
2	Mo 202.031†	-8.4	1.3	0.1474 µg/L	0.1474 ppb	08:48:08
2	Ni 231.604†	289.2	-10.5	-0.6136 µg/L	-0.6136 ppb	08:48:08
2	P 214.914†	32.8	5.3	11.822 µg/L	11.822 ppb	08:48:08
2	Pb 220.353†	86.1	-4.6	-1.2893 µg/L	-1.2893 ppb	08:48:08

2	S 181.975 Axial†	16.9	2.8	13.448 µg/L	13.448 ppb	08:48:08
2	Sb 206.836†	27.8	4.7	4.8017 µg/L	4.8017 ppb	08:48:08
2	Se 196.026†	21.6	6.7	10.952 µg/L	10.952 ppb	08:48:08
2	SiO2†	1410.9	72.3	16.647 µg/L	16.647 ppb	08:47:48
2	Si 251.611†	374.8	112.5	9.8760 µg/L	9.8760 ppb	08:48:08
2	Sn 189.927†	-3.5	-2.3	-1.1461 µg/L	-1.1461 ppb	08:48:08
2	Ti 334.940†	186.0	94.1	0.2394 µg/L	0.2394 ppb	08:47:48
2	Tl 190.801†	-24.2	1.8	2.5999 µg/L	2.5999 ppb	08:48:08
2	U 409.014†	-176.4	-172.8	-16.030 µg/L	-16.030 ppb	08:47:48
2	V 292.402†	-12.2	29.5	0.3210 µg/L	0.3210 ppb	08:47:48
2	Zn 213.857†	464.5	1.9	0.0500 µg/L	0.0500 ppb	08:48:08
3	Sc RADIAL	52572.3	52572.3	98.0 %		08:46:39
3	Al 396.153Radial†	-2.5	13.7	10.119 µg/L	10.119 ppb	08:46:39
3	Ca 317.933Radial†	165.8	-7.9	-7.6319 µg/L	-7.6319 ppb	08:47:00
3	Fe 238.204 Radial†	15.1	1.6	14.357 µg/L	14.357 ppb	08:47:00
3	K 766.490 Radial†	161.4	13.6	10.218 µg/L	10.218 ppb	08:46:39
3	Mg 279.077 IEC†	13.2	2.0	19.196 µg/L	19.196 ppb	08:47:00
3	Na 589.592 Radial†	433.3	-58.3	-19.449 µg/L	-19.449 ppb	08:46:39
3	Sr 421.552†	53.9	17.6	0.1925 µg/L	0.1925 ppb	08:46:39
3	Sc 361.383	1896367.9	1896367.9	100.71 %		08:48:14
3	Y 371.029	1304824.3	1304824.3	100.64 %		08:48:14
3	Ag 328.068†	-590.7	1.3	0.0126 µg/L	0.0126 ppb	08:48:20
3	As 188.979†	1.3	1.1	2.2423 µg/L	2.2423 ppb	08:48:40
3	B 249.677†	293.0	15.5	0.7180 µg/L	0.7180 ppb	08:48:40
3	Ba 233.527†	-19.1	11.6	0.3259 µg/L	0.3259 ppb	08:48:40
3	Be 313.107†	-3655.9	-63.2	-0.0436 µg/L	-0.0436 ppb	08:48:20
3	Cd 226.502†	-145.3	-6.0	-0.1789 µg/L	-0.1789 ppb	08:48:40
3	Co 228.616†	-10.0	7.8	0.4106 µg/L	0.4106 ppb	08:48:40
3	Cr 267.716†	-68.1	-33.8	-0.7852 µg/L	-0.7852 ppb	08:48:20
3	Cu 324.752†	2815.7	93.6	0.6928 µg/L	0.6928 ppb	08:48:20
3	Mn 257.610†	-211.1	60.3	0.2195 µg/L	0.2195 ppb	08:48:40
3	Mo 202.031†	0.3	10.0	1.0934 µg/L	1.0934 ppb	08:48:40
3	Ni 231.604†	292.5	-7.1	-0.4133 µg/L	-0.4133 ppb	08:48:40
3	P 214.914†	24.5	-2.9	-6.6929 µg/L	-6.6929 ppb	08:48:40
3	Pb 220.353†	98.9	8.1	2.3249 µg/L	2.3249 ppb	08:48:40
3	S 181.975 Axial†	17.5	3.3	16.015 µg/L	16.015 ppb	08:48:40
3	Sb 206.836†	29.1	6.0	6.1659 µg/L	6.1659 ppb	08:48:40
3	Se 196.026†	13.7	-1.1	-1.6932 µg/L	-1.6932 ppb	08:48:40
3	SiO2†	1464.8	126.2	29.050 µg/L	29.050 ppb	08:48:20
3	Si 251.611†	361.9	99.7	8.7564 µg/L	8.7564 ppb	08:48:40
3	Sn 189.927†	-1.8	-0.7	-0.3472 µg/L	-0.3472 ppb	08:48:40
3	Ti 334.940†	165.4	73.7	0.1855 µg/L	0.1855 ppb	08:48:20
3	Tl 190.801†	-28.3	-2.3	-3.4402 µg/L	-3.4402 ppb	08:48:40
3	U 409.014†	-139.2	-135.9	-12.602 µg/L	-12.602 ppb	08:48:20
3	V 292.402†	-32.2	9.6	0.1035 µg/L	0.1035 ppb	08:48:20
3	Zn 213.857†	463.3	0.9	0.0224 µg/L	0.0224 ppb	08:48:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1900326.8	100.92 %	0.340			0.34%
Sc RADIAL	52780.7	98.4 %	0.34			0.34%
Y 371.029	1307764.4	100.87 %	0.346			0.34%
Ag 328.068†	5.3	0.0473 µg/L	0.03377	0.0473 ppb	0.03377	71.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.9	-6.6168 µg/L	14.57780	-6.6168 ppb	14.57780	220.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.4	-0.7876 µg/L	2.65221	-0.7876 ppb	2.65221	336.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	18.7	0.8611 µg/L	0.38461	0.8611 ppb	0.38461	44.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.3	0.2608 µg/L	0.09885	0.2608 ppb	0.09885	37.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-83.6	-0.0577 µg/L	0.01246	-0.0577 ppb	0.01246	21.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.2	-3.0554 µg/L	4.35850	-3.0554 ppb	4.35850	142.65%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-2.1	-0.0667 µg/L	0.10463	-0.0667 ppb	0.10463	156.78%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.4	0.2860 µg/L	0.39411	0.2860 ppb	0.39411	137.81%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-19.7	-0.4574 µg/L	0.43871	-0.4574 ppb	0.43871	95.92%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	62.0	0.4616 µg/L	0.33505	0.4616 ppb	0.33505	72.59%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3.5	30.808 µg/L	18.3247	30.808 ppb	18.3247	59.48%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	13.4	10.109 µg/L	16.1728	10.109 ppb	16.1728	159.98%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.1	10.646 µg/L	13.8499	10.646 ppb	13.8499	130.10%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	67.2	0.2471 µg/L	0.04266	0.2471 ppb	0.04266	17.26%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.1	0.4491 µg/L	0.55836	0.4491 ppb	0.55836	124.34%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-44.0	-14.698 µg/L	4.4524	-14.698 ppb	4.4524	30.29%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-7.4	-0.4349 µg/L	0.16897	-0.4349 ppb	0.16897	38.85%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.5	7.8935 µg/L	13.07259	7.8935 ppb	13.07259	165.61%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.1	0.8975 µg/L	1.92306	0.8975 ppb	1.92306	214.26%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.9	14.081 µg/L	1.7072	14.081 ppb	1.7072	12.12%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.9	1.9112 µg/L	6.22535	1.9112 ppb	6.22535	325.73%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.7	2.7565 µg/L	7.10655	2.7565 ppb	7.10655	257.81%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	84.3	19.412 µg/L	8.5959	19.412 ppb	8.5959	44.28%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	106.6	9.3616 µg/L	0.56530	9.3616 ppb	0.56530	6.04%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.6	-0.2958 µg/L	0.87704	-0.2958 ppb	0.87704	296.48%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	0.4	0.0044 µg/L	0.16942	0.0044 ppb	0.16942	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	85.3	0.2158 µg/L	0.02758	0.2158 ppb	0.02758	12.78%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.1	3.1803 µg/L	6.92896	3.1803 ppb	6.92896	217.87%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-130.9	-12.147 µg/L	4.1292	-12.147 ppb	4.1292	33.99%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	10.2	0.1088 µg/L	0.20952	0.1088 ppb	0.20952	192.50%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	4.2	0.1096 µg/L	0.12784	0.1096 ppb	0.12784	116.65%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

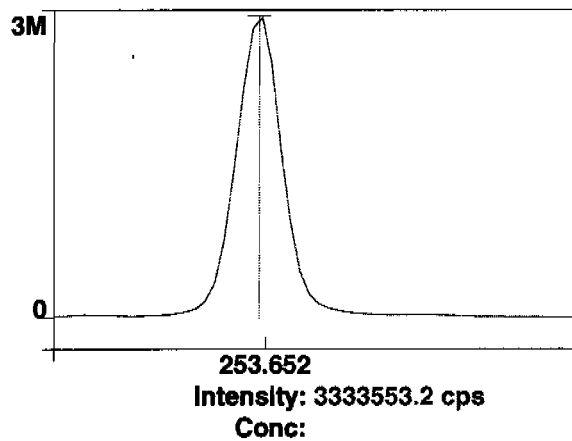
All analyte(s) passed QC.

Method: Hg_ReAlign
Result: 020910

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

1/29/2010 17:26:04 Hg ReAlign... Actual peak offset (nm): -0.008
Drift (nm): -0.000 Slit adjustment: -2

Analysis Begun

Start Time: 1/29/2010 17:29:25 Plasma On Time: 1/29/2010 16:57:59
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\012910.sif
Batch ID:
Results Data Set: 012910
Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 1/25/2010 09:50:48

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 1/29/2010 17:29:34

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	4797.8	4797.8	0.000 %	17:31:26
1	Y RADIAL	5009.1	5009.1	0.000 %	17:31:26
1	Al 396.153Radial†	-110.1	-121.0	[0.00] ug/L	17:31:46
1	Ca 317.933Radial†	19.7	21.6	[0.00] ug/L	17:31:46
1	Fe 238.204 Radial†	10.3	11.4	[0.00] ug/L	17:31:46
1	K 766.490 Radial†	2635.7	2897.6	[0.00] ug/L	17:31:26
1	Mg 279.077 IEC†	0.0	0.0	[0.00] ug/L	17:31:46
1	Na 589.592 Radial†	-601.9	-661.7	[0.00] ug/L	17:31:26
1	Sr 421.552†	49.7	54.7	[0.00] ug/L	17:31:26
1	Sc 361.383	988397.0	988397.0	0.0000 %	17:32:43
1	Y 371.029	857253.5	857253.5	0.0000 %	17:32:43
1	Ag 328.068†	376.7	378.0	[0.00] ug/L	17:32:48
1	As 188.979†	-37.8	-38.0	[0.00] ug/L	17:33:08
1	B 249.677†	-350.2	-351.4	[0.00] ug/L	17:33:08
1	Ba 233.527†	-15.6	-15.6	[0.00] ug/L	17:33:08
1	Be 313.107†	-4816.4	-4833.9	[0.00] ug/L	17:32:48
1	Cd 226.502†	-185.2	-185.8	[0.00] ug/L	17:33:08
1	Co 228.616†	-70.3	-70.5	[0.00] ug/L	17:33:08
1	Cr 267.716†	61.6	61.8	[0.00] ug/L	17:33:08
1	Cu 324.752†	8942.2	8974.6	[0.00] ug/L	17:32:48
1	Mn 257.610†	577.8	579.9	[0.00] ug/L	17:33:08
1	Mo 202.031†	13.2	13.2	[0.00] ug/L	17:33:08
1	Ni 231.604†	83.2	83.5	[0.00] ug/L	17:33:08
1	P 214.914†	255.6	256.5	[0.00] ug/L	17:33:08
1	Pb 220.353†	-54.7	-54.9	[0.00] ug/L	17:33:08
1	S 181.975 Axial†	45.0	45.2	[0.00] ug/L	17:33:08
1	Sb 206.836†	38.8	38.9	[0.00] ug/L	17:33:08
1	Se 196.026†	-19.5	-19.5	[0.00] ug/L	17:33:08
1	Si 251.611†	409.3	410.8	[0.00] ug/L	17:33:08
1	Sn 189.927†	-2.0	-2.0	[0.00] ug/L	17:33:08
1	Ti 334.940†	-1028.9	-1032.6	[0.00] ug/L	17:32:48
1	Tl 190.801†	-49.4	-49.6	[0.00] ug/L	17:33:08
1	U 409.014†	-2912.5	-2923.1	[0.00] ug/L	17:32:43
1	V 292.402†	-1468.5	-1473.8	[0.00] ug/L	17:32:48
1	Zn 213.857†	906.8	910.1	[0.00] ug/L	17:33:08
1	SiO2†	391.0	392.4	[0.00] ug/L	17:34:14
2	Sc Radial	5436.2	5436.2	0.000 %	17:31:51
2	Y RADIAL	5689.9	5689.9	0.000 %	17:31:51
2	Al 396.153Radial†	-100.0	-97.0	[0.00] ug/L	17:32:11
2	Ca 317.933Radial†	23.2	22.5	[0.00] ug/L	17:32:11
2	Fe 238.204 Radial†	9.7	9.4	[0.00] ug/L	17:32:11
2	K 766.490 Radial†	2629.5	2551.4	[0.00] ug/L	17:31:51
2	Mg 279.077 IEC†	2.5	2.4	[0.00] ug/L	17:32:11
2	Na 589.592 Radial†	-617.4	-599.1	[0.00] ug/L	17:31:51
2	Sr 421.552†	60.9	59.1	[0.00] ug/L	17:31:51
2	Sc 361.383	998367.0	998367.0	0.0000 %	17:33:13
2	Y 371.029	865280.2	865280.2	0.0000 %	17:33:13
2	Ag 328.068†	312.6	310.6	[0.00] ug/L	17:33:18
2	As 188.979†	-42.3	-42.1	[0.00] ug/L	17:33:38
2	B 249.677†	-325.4	-323.3	[0.00] ug/L	17:33:38
2	Ba 233.527†	-20.6	-20.4	[0.00] ug/L	17:33:38
2	Be 313.107†	-4779.7	-4749.2	[0.00] ug/L	17:33:18
2	Cd 226.502†	-180.7	-179.5	[0.00] ug/L	17:33:38
2	Co 228.616†	-63.6	-63.2	[0.00] ug/L	17:33:38
2	Cr 267.716†	71.7	71.3	[0.00] ug/L	17:33:38
2	Cu 324.752†	8944.8	8887.6	[0.00] ug/L	17:33:18
2	Mn 257.610†	578.3	574.7	[0.00] ug/L	17:33:38
2	Mo 202.031†	10.0	9.9	[0.00] ug/L	17:33:38
2	Ni 231.604†	79.4	78.9	[0.00] ug/L	17:33:38
2	P 214.914†	244.7	243.1	[0.00] ug/L	17:33:38
2	Pb 220.353†	-36.0	-35.7	[0.00] ug/L	17:33:38
2	S 181.975 Axial†	35.7	35.5	[0.00] ug/L	17:33:38
2	Sb 206.836†	36.9	36.6	[0.00] ug/L	17:33:38
2	Se 196.026†	-26.0	-25.8	[0.00] ug/L	17:33:38
2	Si 251.611†	408.0	405.3	[0.00] ug/L	17:33:38
2	Sn 189.927†	-0.7	-0.7	[0.00] ug/L	17:33:38
2	Ti 334.940†	-1060.1	-1053.3	[0.00] ug/L	17:33:18
2	Tl 190.801†	-44.3	-44.0	[0.00] ug/L	17:33:38
2	U 409.014†	-2727.8	-2710.3	[0.00] ug/L	17:33:13
2	V 292.402†	-1486.9	-1477.4	[0.00] ug/L	17:33:18

2	Zn 213.857†	923.9	918.0	[0.00]	ug/L	17:33:38
2	SiO2†	416.2	413.5	[0.00]	ug/L	17:34:19
3	Sc Radial	5590.0	5590.0	0.000	%	17:32:16
3	Y RADIAL	5870.2	5870.2	0.000	%	17:32:16
3	Al 396.153Radial†	-108.8	-102.7	[0.00]	ug/L	17:32:36
3	Ca 317.933Radial†	19.0	18.0	[0.00]	ug/L	17:32:36
3	Fe 238.204 Radial†	10.0	9.4	[0.00]	ug/L	17:32:36
3	K 766.490 Radial†	2686.0	2534.5	[0.00]	ug/L	17:32:16
3	Mg 279.077 IEC†	1.8	1.7	[0.00]	ug/L	17:32:36
3	Na 589.592 Radial†	-532.2	-502.1	[0.00]	ug/L	17:32:16
3	Sr 421.552†	91.6	86.4	[0.00]	ug/L	17:32:16
3	Sc 361.383	989193.0	989193.0	0.0000	%	17:33:44
3	Y 371.029	857344.4	857344.4	0.0000	%	17:33:44
3	Ag 328.068†	433.8	435.0	[0.00]	ug/L	17:33:49
3	As 188.979†	-29.4	-29.5	[0.00]	ug/L	17:34:09
3	B 249.677†	-347.5	-348.5	[0.00]	ug/L	17:34:09
3	Ba 233.527†	-13.1	-13.1	[0.00]	ug/L	17:34:09
3	Be 313.107†	-4810.7	-4824.3	[0.00]	ug/L	17:33:49
3	Cd 226.502†	-184.8	-185.3	[0.00]	ug/L	17:34:09
3	Co 228.616†	-73.2	-73.5	[0.00]	ug/L	17:34:09
3	Cr 267.716†	74.5	74.7	[0.00]	ug/L	17:34:09
3	Cu 324.752†	9022.6	9048.0	[0.00]	ug/L	17:33:49
3	Mn 257.610†	554.3	555.9	[0.00]	ug/L	17:34:09
3	Mo 202.031†	8.5	8.6	[0.00]	ug/L	17:34:09
3	Ni 231.604†	78.8	79.0	[0.00]	ug/L	17:34:09
3	P 214.914†	245.7	246.4	[0.00]	ug/L	17:34:09
3	Pb 220.353†	-44.7	-44.8	[0.00]	ug/L	17:34:09
3	S 181.975 Axial†	47.4	47.6	[0.00]	ug/L	17:34:09
3	Sb 206.836†	28.9	29.0	[0.00]	ug/L	17:34:09
3	Se 196.026†	-25.7	-25.8	[0.00]	ug/L	17:34:09
3	Si 251.611†	393.7	394.8	[0.00]	ug/L	17:34:09
3	Sn 189.927†	6.0	6.0	[0.00]	ug/L	17:34:09
3	Ti 334.940†	-955.4	-958.1	[0.00]	ug/L	17:33:49
3	Tl 190.801†	-41.4	-41.5	[0.00]	ug/L	17:34:09
3	U 409.014†	-2740.3	-2748.0	[0.00]	ug/L	17:33:44
3	V 292.402†	-1443.4	-1447.5	[0.00]	ug/L	17:33:49
3	Zn 213.857†	931.7	934.3	[0.00]	ug/L	17:34:09
3	SiO2†	386.1	387.2	[0.00]	ug/L	17:34:24

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Sc 361.383	991985.7	5540.72	0.56%	0.0000 %
Sc Radial	5274.6	420.05	7.96%	0.000 %
Y 371.029	859959.3	4608.18	0.54%	0.0000 %
Y RADIAL	5523.1	454.14	8.22%	0.000 %
Ag 328.068†	374.5	62.29	16.63%	[0.00] ug/L
Al 396.153Radial†	-106.9	12.53	11.72%	[0.00] ug/L
As 188.979†	-36.5	6.38	17.49%	[0.00] ug/L
B 249.677†	-341.1	15.44	4.53%	[0.00] ug/L
Ba 233.527†	-16.4	3.73	22.75%	[0.00] ug/L
Be 313.107†	-4802.5	46.41	0.97%	[0.00] ug/L
Ca 317.933Radial†	20.7	2.42	11.69%	[0.00] ug/L
Cd 226.502†	-183.6	3.49	1.90%	[0.00] ug/L
Co 228.616†	-69.1	5.30	7.67%	[0.00] ug/L
Cr 267.716†	69.3	6.67	9.63%	[0.00] ug/L
Cu 324.752†	8970.1	80.31	0.90%	[0.00] ug/L
Fe 238.204 Radial†	10.1	1.13	11.27%	[0.00] ug/L
K 766.490 Radial†	2661.2	204.95	7.70%	[0.00] ug/L
Mg 279.077 IEC†	1.4	1.22	89.94%	[0.00] ug/L
Mn 257.610†	570.1	12.60	2.21%	[0.00] ug/L
Mo 202.031†	10.6	2.41	22.77%	[0.00] ug/L
Na 589.592 Radial†	-587.6	80.38	13.68%	[0.00] ug/L
Ni 231.604†	80.5	2.61	3.24%	[0.00] ug/L
P 214.914†	248.7	7.01	2.82%	[0.00] ug/L
Pb 220.353†	-45.1	9.59	21.25%	[0.00] ug/L
S 181.975 Axial†	42.7	6.40	14.98%	[0.00] ug/L
Sb 206.836†	34.9	5.18	14.86%	[0.00] ug/L
Se 196.026†	-23.7	3.62	15.28%	[0.00] ug/L
Si 251.611†	403.6	8.10	2.01%	[0.00] ug/L

Sn 189.927†	1.1	4.32	388.05%	[0.00]	ug/L
Sr 421.552†	66.7	17.19	25.76%	[0.00]	ug/L
Ti 334.940†	-1014.7	50.08	4.94%	[0.00]	ug/L
Tl 190.801†	-45.0	4.14	9.19%	[0.00]	ug/L
U 409.014†	-2793.8	113.52	4.06%	[0.00]	ug/L
V 292.402†	-1466.2	16.33	1.11%	[0.00]	ug/L
Zn 213.857†	920.8	12.33	1.34%	[0.00]	ug/L
SiO2†	397.7	13.94	3.51%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 1/29/2010 17:36:35
 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	5389.7	5389.7	102 %	17:38:33
1	Y RADIAL	5656.4	5656.4	102.4 %	17:38:33
1	K 766.490 Radial†	8471.9	5630.0	[1000] ug/L	17:38:28
1	Sr 421.552†	16867.5	16440.8	[100] ug/L	17:38:33
1	Sc 361.383	999729.2	999729.2	100.78 %	17:38:59
1	Y 371.029	863821.8	863821.8	100.45 %	17:38:59
1	Ag 328.068†	23786.3	23227.5	[100] ug/L	17:39:04
1	As 188.979†	208.2	243.1	[100] ug/L	17:39:24
1	B 249.677†	3830.1	4141.5	[100] ug/L	17:39:04
1	Ba 233.527†	12207.6	12129.4	[100] ug/L	17:39:04
1	Be 313.107†	265242.0	267990.0	[100] ug/L	17:38:59
1	Cd 226.502†	8716.8	8832.8	[100] ug/L	17:39:04
1	Co 228.616†	4529.9	4563.9	[100] ug/L	17:39:24
1	Cr 267.716†	9412.3	9270.1	[100] ug/L	17:39:04
1	Cu 324.752†	43655.1	34346.9	[100] ug/L	17:39:04
1	Mn 257.610†	89058.5	87798.5	[100] ug/L	17:39:04
1	Mo 202.031†	1443.4	1421.6	[100] ug/L	17:39:24
1	Ni 231.604†	4104.1	3991.9	[100] ug/L	17:39:24
1	P 214.914†	1141.7	884.2	[500] ug/L	17:39:24
1	Pb 220.353†	791.3	830.3	[100] ug/L	17:39:24
1	S 181.975 Axial†	194.5	150.3	[200] ug/L	17:39:24
1	Sb 206.836†	334.2	296.8	[100] ug/L	17:39:24
1	Se 196.026†	159.0	181.5	[100] ug/L	17:39:24
1	Si 251.611†	16395.0	15864.4	[500] ug/L	17:39:04
1	Sn 189.927†	536.3	531.0	[100] ug/L	17:39:24
1	Ti 334.940†	63398.7	63922.3	[100] ug/L	17:39:04
1	Tl 190.801†	270.6	313.6	[100] ug/L	17:39:24
1	U 409.014†	967.3	3753.6	[100] ug/L	17:39:04
1	V 292.402†	13518.7	14880.2	[100] ug/L	17:39:04
1	Zn 213.857†	11628.8	10617.9	[100] ug/L	17:39:04
1	SiO2†	16422.4	15897.5	[1069.5] ug/L	17:40:31
2	Sc Radial	5442.8	5442.8	103 %	17:38:43
2	Y RADIAL	5684.6	5684.6	102.9 %	17:38:43
2	K 766.490 Radial†	8423.2	5501.8	[1000] ug/L	17:38:38
2	Sr 421.552†	16968.5	16377.5	[100] ug/L	17:38:43
2	Sc 361.383	996410.6	996410.6	100.45 %	17:39:30
2	Y 371.029	861354.8	861354.8	100.16 %	17:39:30
2	Ag 328.068†	23577.9	23098.6	[100] ug/L	17:39:35
2	As 188.979†	192.4	228.0	[100] ug/L	17:39:55
2	B 249.677†	3785.2	4109.5	[100] ug/L	17:39:35
2	Ba 233.527†	11972.7	11935.9	[100] ug/L	17:39:35
2	Be 313.107†	265350.6	268974.7	[100] ug/L	17:39:30
2	Cd 226.502†	8590.1	8735.5	[100] ug/L	17:39:35
2	Co 228.616†	4468.3	4517.5	[100] ug/L	17:39:55
2	Cr 267.716†	9301.0	9190.4	[100] ug/L	17:39:35
2	Cu 324.752†	43072.9	33911.5	[100] ug/L	17:39:35
2	Mn 257.610†	87986.0	87025.1	[100] ug/L	17:39:35
2	Mo 202.031†	1424.9	1407.9	[100] ug/L	17:39:55
2	Ni 231.604†	4058.0	3959.6	[100] ug/L	17:39:55
2	P 214.914†	1126.2	872.5	[500] ug/L	17:39:55
2	Pb 220.353†	771.2	812.9	[100] ug/L	17:39:55
2	S 181.975 Axial†	185.7	142.1	[200] ug/L	17:39:55
2	Sb 206.836†	323.9	287.6	[100] ug/L	17:39:55
2	Se 196.026†	155.9	178.9	[100] ug/L	17:39:55
2	Si 251.611†	16151.1	15675.8	[500] ug/L	17:39:35
2	Sn 189.927†	532.1	528.7	[100] ug/L	17:39:55
2	Ti 334.940†	62382.8	63120.4	[100] ug/L	17:39:35
2	Tl 190.801†	257.0	300.8	[100] ug/L	17:39:55
2	U 409.014†	815.6	3605.8	[100] ug/L	17:39:35

2	V 292.402†	13337.2	14744.2	[100]	ug/L	17:39:35
2	Zn 213.857†	11515.4	10543.5	[100]	ug/L	17:39:35
2	SiO2†	16291.6	15821.5	[1069.5]	ug/L	17:40:36
3	Sc Radial	5597.6	5597.6	106	%	17:38:53
3	Y RADIAL	5852.0	5852.0	106.0	%	17:38:53
3	K 766.490 Radial†	8402.9	5257.0	[1000]	ug/L	17:38:48
3	Sr 421.552†	17106.7	16053.0	[100]	ug/L	17:38:53
3	Sc 361.383	1007882.3	1007882.3	101.60	%	17:40:00
3	Y 371.029	870985.5	870985.5	101.28	%	17:40:00
3	Ag 328.068†	23635.1	22887.8	[100]	ug/L	17:40:05
3	As 188.979†	207.1	240.3	[100]	ug/L	17:40:25
3	B 249.677†	3771.4	4053.0	[100]	ug/L	17:40:05
3	Ba 233.527†	12128.8	11953.8	[100]	ug/L	17:40:05
3	Be 313.107†	264092.1	264729.2	[100]	ug/L	17:40:00
3	Cd 226.502†	8637.0	8684.4	[100]	ug/L	17:40:05
3	Co 228.616†	4522.4	4520.1	[100]	ug/L	17:40:25
3	Cr 267.716†	9385.5	9168.2	[100]	ug/L	17:40:05
3	Cu 324.752†	43321.2	33667.8	[100]	ug/L	17:40:05
3	Mn 257.610†	88662.4	86693.8	[100]	ug/L	17:40:05
3	Mo 202.031†	1452.2	1418.7	[100]	ug/L	17:40:25
3	Ni 231.604†	4091.9	3946.9	[100]	ug/L	17:40:25
3	P 214.914†	1126.9	860.4	[500]	ug/L	17:40:25
3	Pb 220.353†	789.5	822.2	[100]	ug/L	17:40:25
3	S 181.975 Axial†	183.7	138.1	[200]	ug/L	17:40:25
3	Sb 206.836†	341.2	300.9	[100]	ug/L	17:40:25
3	Se 196.026†	162.9	184.0	[100]	ug/L	17:40:25
3	Si 251.611†	16322.8	15661.7	[500]	ug/L	17:40:05
3	Sn 189.927†	531.6	522.1	[100]	ug/L	17:40:25
3	Ti 334.940†	63004.8	63025.7	[100]	ug/L	17:40:05
3	Tl 190.801†	261.0	302.0	[100]	ug/L	17:40:25
3	U 409.014†	937.6	3716.6	[100]	ug/L	17:40:05
3	V 292.402†	13487.4	14740.9	[100]	ug/L	17:40:05
3	Zn 213.857†	11560.0	10456.9	[100]	ug/L	17:40:05
3	SiO2†	16282.8	15628.3	[1069.5]	ug/L	17:40:41

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1001340.7	5903.17	0.59%	100.94 %
Sc Radial	5476.7	108.02	1.97%	104 %
Y 371.029	865387.4	5002.58	0.58%	100.63 %
Y RADIAL	5731.0	105.69	1.84%	103.8 %
Ag 328.068†	23071.3	171.51	0.74%	[100] ug/L
As 188.979†	237.1	8.03	3.39%	[100] ug/L
B 249.677†	4101.3	44.84	1.09%	[100] ug/L
Ba 233.527†	12006.4	106.93	0.89%	[100] ug/L
Be 313.107†	267231.3	2222.11	0.83%	[100] ug/L
Cd 226.502†	8750.9	75.42	0.86%	[100] ug/L
Co 228.616†	4533.8	26.04	0.57%	[100] ug/L
Cr 267.716†	9209.6	53.60	0.58%	[100] ug/L
Cu 324.752†	33975.4	344.01	1.01%	[100] ug/L
K 766.490 Radial†	5462.9	189.52	3.47%	[1000] ug/L
Mn 257.610†	87172.5	566.90	0.65%	[100] ug/L
Mo 202.031†	1416.1	7.21	0.51%	[100] ug/L
Ni 231.604†	3966.1	23.18	0.58%	[100] ug/L
P 214.914†	872.4	11.86	1.36%	[500] ug/L
Pb 220.353†	821.8	8.71	1.06%	[100] ug/L
S 181.975 Axial†	143.5	6.22	4.34%	[200] ug/L
Sb 206.836†	295.1	6.80	2.31%	[100] ug/L
Se 196.026†	181.5	2.58	1.42%	[100] ug/L
Si 251.611†	15734.0	113.17	0.72%	[500] ug/L
Sn 189.927†	527.3	4.61	0.87%	[100] ug/L
Sr 421.552†	16290.5	208.03	1.28%	[100] ug/L
Ti 334.940†	63356.2	492.60	0.78%	[100] ug/L
Tl 190.801†	305.5	7.04	2.31%	[100] ug/L
U 409.014†	3692.0	76.94	2.08%	[100] ug/L
V 292.402†	14788.5	79.48	0.54%	[100] ug/L
Zn 213.857†	10539.4	80.57	0.76%	[100] ug/L
SiO2†	15782.4	138.81	0.88%	[1069.5] ug/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 1/29/2010 17:42:51

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	5548.2	5548.2	105 %		17:44:43
1	Y RADIAL	5802.2	5802.2	105.1 %		17:44:43
1	Al 396.153Radial†	6194.8	5996.3	[5000] ug/L		17:44:43
1	Ca 317.933Radial†	3132.6	2957.5	[5000] ug/L		17:45:03
1	K 766.490 Radial†	31797.0	27568.3	[5000] ug/L		17:44:43
1	Mg 279.077 IEC†	142.7	134.3	[5000] ug/L		17:45:03
1	Sr 421.552†	85144.4	80880.2	[500] ug/L		17:44:43
1	Sc 361.383	981962.6	981962.6	98.990 %		17:46:01
1	Y 371.029	839790.8	839790.8	97.655 %		17:46:01
1	Ag 328.068†	118177.9	119009.6	[500] ug/L		17:46:06
1	As 188.979†	1185.0	1233.6	[500] ug/L		17:46:26
1	B 249.677†	21345.9	21904.9	[500] ug/L		17:46:06
1	Ba 233.527†	61828.1	62475.6	[500] ug/L		17:46:06
1	Be 313.107†	1349285.3	1367860.2	[500] ug/L		17:46:01
1	Cd 226.502†	44521.8	45159.7	[500] ug/L		17:46:06
1	Co 228.616†	23703.4	24014.4	[500] ug/L		17:46:06
1	Cr 267.716†	47379.5	47793.9	[500] ug/L		17:46:06
1	Cu 324.752†	185874.5	178801.7	[500] ug/L		17:46:06
1	Mn 257.610†	442124.6	446067.4	[500] ug/L		17:46:01
1	Mo 202.031†	7282.0	7345.8	[500] ug/L		17:46:26
1	Ni 231.604†	20887.1	21019.8	[500] ug/L		17:46:06
1	P 214.914†	4766.0	4566.0	[2500] ug/L		17:46:26
1	Pb 220.353†	4110.0	4197.1	[500] ug/L		17:46:26
1	S 181.975 Axial†	793.8	759.1	[1000] ug/L		17:46:26
1	Sb 206.836†	1580.9	1562.1	[500] ug/L		17:46:26
1	Se 196.026†	899.9	932.8	[500] ug/L		17:46:26
1	Si 251.611†	82223.7	82659.3	[2500] ug/L		17:46:06
1	Sn 189.927†	2741.0	2767.9	[500] ug/L		17:46:26
1	Ti 334.940†	323077.5	327389.9	[500] ug/L		17:46:06
1	Tl 190.801†	1504.8	1565.2	[500] ug/L		17:46:26
1	U 409.014†	17002.5	19969.9	[500] ug/L		17:46:06
1	V 292.402†	75251.4	77485.7	[500] ug/L		17:46:06
1	Zn 213.857†	55943.5	55593.7	[500] ug/L		17:46:06
1	SiO2†	81224.8	81656.2	[5347.5] ug/L		17:47:34
2	Sc Radial	5541.8	5541.8	105 %		17:45:08
2	Y RADIAL	5788.6	5788.6	104.8 %		17:45:08
2	Al 396.153Radial†	6205.5	6013.3	[5000] ug/L		17:45:08
2	Ca 317.933Radial†	3127.0	2955.6	[5000] ug/L		17:45:28
2	K 766.490 Radial†	31647.6	27460.7	[5000] ug/L		17:45:08
2	Mg 279.077 IEC†	144.4	136.1	[5000] ug/L		17:45:28
2	Sr 421.552†	84618.2	80472.1	[500] ug/L		17:45:08
2	Sc 361.383	988046.2	988046.2	99.603 %		17:46:32
2	Y 371.029	847093.2	847093.2	98.504 %		17:46:32
2	Ag 328.068†	118329.2	118426.5	[500] ug/L		17:46:37
2	As 188.979†	1185.4	1226.7	[500] ug/L		17:46:57
2	B 249.677†	21336.9	21763.1	[500] ug/L		17:46:37
2	Ba 233.527†	61894.8	62157.9	[500] ug/L		17:46:37
2	Be 313.107†	1361916.6	1372149.2	[500] ug/L		17:46:32
2	Cd 226.502†	44779.7	45141.8	[500] ug/L		17:46:37
2	Co 228.616†	23811.5	23975.5	[500] ug/L		17:46:37
2	Cr 267.716†	47534.0	47654.3	[500] ug/L		17:46:37
2	Cu 324.752†	185673.7	177443.9	[500] ug/L		17:46:37
2	Mn 257.610†	445054.8	446259.1	[500] ug/L		17:46:32
2	Mo 202.031†	7231.9	7250.2	[500] ug/L		17:46:57
2	Ni 231.604†	21001.7	21005.0	[500] ug/L		17:46:37
2	P 214.914†	4736.5	4506.7	[2500] ug/L		17:46:57
2	Pb 220.353†	4098.5	4160.0	[500] ug/L		17:46:57
2	S 181.975 Axial†	789.1	749.5	[1000] ug/L		17:46:57
2	Sb 206.836†	1564.8	1536.1	[500] ug/L		17:46:57

2	Se 196.026†	890.7	918.0	[500]	ug/L	17:46:57
2	Si 251.611†	82424.9	82349.9	[2500]	ug/L	17:46:37
2	Sn 189.927†	2726.3	2736.0	[500]	ug/L	17:46:57
2	Ti 334.940†	323593.3	325898.1	[500]	ug/L	17:46:37
2	Tl 190.801†	1500.8	1551.9	[500]	ug/L	17:46:57
2	U 409.014†	16920.9	19782.2	[500]	ug/L	17:46:37
2	V 292.402†	75479.9	77247.0	[500]	ug/L	17:46:37
2	Zn 213.857†	56077.7	55380.5	[500]	ug/L	17:46:37
2	SiO2†	81740.6	81668.9	[5347.5]	ug/L	17:47:39
3	Sc Radial	5547.9	5547.9	105	%	17:45:34
3	Y RADIAL	5807.7	5807.7	105.2	%	17:45:34
3	Al 396.153Radial†	6207.0	6008.3	[5000]	ug/L	17:45:34
3	Ca 317.933Radial†	3146.2	2970.5	[5000]	ug/L	17:45:54
3	K 766.490 Radial†	31711.0	27488.1	[5000]	ug/L	17:45:34
3	Mg 279.077 IEC†	140.6	132.3	[5000]	ug/L	17:45:54
3	Sr 421.552†	85151.4	80891.2	[500]	ug/L	17:45:34
3	Sc 361.383	996608.4	996608.4	100.47	%	17:47:03
3	Y 371.029	851836.2	851836.2	99.055	%	17:47:03
3	Ag 328.068†	118000.8	117079.0	[500]	ug/L	17:47:08
3	As 188.979†	1175.3	1206.4	[500]	ug/L	17:47:28
3	B 249.677†	21387.5	21629.4	[500]	ug/L	17:47:08
3	Ba 233.527†	61517.6	61248.7	[500]	ug/L	17:47:08
3	Be 313.107†	1372664.4	1371099.9	[500]	ug/L	17:47:03
3	Cd 226.502†	44543.1	44520.0	[500]	ug/L	17:47:08
3	Co 228.616†	23635.9	23595.3	[500]	ug/L	17:47:08
3	Cr 267.716†	47336.1	47047.2	[500]	ug/L	17:47:08
3	Cu 324.752†	185028.4	175200.1	[500]	ug/L	17:47:08
3	Mn 257.610†	450399.2	447739.9	[500]	ug/L	17:47:03
3	Mo 202.031†	7259.4	7215.2	[500]	ug/L	17:47:28
3	Ni 231.604†	20801.2	20624.3	[500]	ug/L	17:47:08
3	P 214.914†	4764.0	4493.3	[2500]	ug/L	17:47:28
3	Pb 220.353†	4123.4	4149.5	[500]	ug/L	17:47:28
3	S 181.975 Axial†	777.3	731.0	[1000]	ug/L	17:47:28
3	Sb 206.836†	1582.8	1540.6	[500]	ug/L	17:47:28
3	Se 196.026†	889.5	909.1	[500]	ug/L	17:47:28
3	Si 251.611†	82055.4	81271.1	[2500]	ug/L	17:47:08
3	Sn 189.927†	2739.7	2725.9	[500]	ug/L	17:47:28
3	Ti 334.940†	321888.3	321409.9	[500]	ug/L	17:47:08
3	Tl 190.801†	1492.7	1530.8	[500]	ug/L	17:47:28
3	U 409.014†	17031.5	19746.3	[500]	ug/L	17:47:08
3	V 292.402†	75175.9	76293.4	[500]	ug/L	17:47:08
3	Zn 213.857†	55759.7	54580.3	[500]	ug/L	17:47:08
3	SiO2†	81972.6	81194.6	[5347.5]	ug/L	17:47:44

Mean Data: S0.5

Analyte	Mean Corrected	Std.Dev.	RSD	Conc.	Calib
	Intensity			Units	
Sc 361.383	988872.4	7357.77	0.74%	99.686	%
Sc Radial	5545.9	3.58	0.06%	105	%
Y 371.029	846240.1	6067.85	0.72%	98.405	%
Y RADIAL	5799.5	9.86	0.17%	105.0	%
Ag 328.068†	118171.7	990.22	0.84%	[500]	ug/L
Al 396.153Radial†	6006.0	8.73	0.15%	[5000]	ug/L
As 188.979†	1222.2	14.15	1.16%	[500]	ug/L
B 249.677†	21765.8	137.75	0.63%	[500]	ug/L
Ba 233.527†	61960.7	636.80	1.03%	[500]	ug/L
Be 313.107†	1370369.8	2235.79	0.16%	[500]	ug/L
Ca 317.933Radial†	2961.2	8.14	0.27%	[5000]	ug/L
Cd 226.502†	44940.5	364.29	0.81%	[500]	ug/L
Co 228.616†	23861.7	231.57	0.97%	[500]	ug/L
Cr 267.716†	47498.5	396.97	0.84%	[500]	ug/L
Cu 324.752†	177148.6	1818.87	1.03%	[500]	ug/L
K 766.490 Radial†	27505.7	55.91	0.20%	[5000]	ug/L
Mg 279.077 IEC†	134.2	1.91	1.42%	[5000]	ug/L
Mn 257.610†	446688.8	915.31	0.20%	[500]	ug/L
Mo 202.031†	7270.4	67.61	0.93%	[500]	ug/L
Ni 231.604†	20883.0	224.21	1.07%	[500]	ug/L
P 214.914†	4522.0	38.69	0.86%	[2500]	ug/L
Pb 220.353†	4168.8	25.01	0.60%	[500]	ug/L
S 181.975 Axial†	746.5	14.31	1.92%	[1000]	ug/L

Sb 206.836†	1546.3	13.89	0.90%	[500] ug/L
Se 196.026†	920.0	11.95	1.30%	[500] ug/L
Si 251.611†	82093.4	728.76	0.89%	[2500] ug/L
Sn 189.927†	2743.2	21.92	0.80%	[500] ug/L
Sr 421.552†	80747.8	238.84	0.30%	[500] ug/L
Ti 334.940†	324899.3	3112.61	0.96%	[500] ug/L
Tl 190.801†	1549.3	17.35	1.12%	[500] ug/L
U 409.014†	19832.8	120.06	0.61%	[500] ug/L
V 292.402†	77008.7	630.85	0.82%	[500] ug/L
Zn 213.857†	55184.8	534.31	0.97%	[500] ug/L
SiO2†	81506.6	270.20	0.33%	[5347.5] ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 1/29/2010 17:49:54

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	5446.6	5446.6	103 %		17:51:47
1	Y RADIAL	5724.7	5724.7	103.7 %		17:51:47
1	Al 396.153Radial†	12336.0	12053.4	[10000] ug/L		17:51:47
1	Ca 317.933Radial†	6255.7	6037.5	[10000] ug/L		17:51:47
1	Fe 238.204 Radial†	1110.2	1065.1	[10000] ug/L		17:52:07
1	K 766.490 Radial†	60058.5	55501.2	[10000] ug/L		17:51:47
1	Mg 279.077 IEC†	280.4	270.2	[10000] ug/L		17:52:07
1	Na 589.592 Radial†	33048.8	32593.0	[10000] ug/L		17:51:47
1	Sr 421.552†	167240.6	161893.9	[1000] ug/L		17:51:47
1	Sc 361.383	980473.8	980473.8	98.840 %		17:53:05
1	Y 371.029	828872.3	828872.3	96.385 %		17:53:11
1	Ag 328.068†	235662.3	238054.7	[1000] ug/L		17:53:11
1	As 188.979†	2376.7	2441.2	[1000] ug/L		17:53:31
1	B 249.677†	43078.3	43925.2	[1000] ug/L		17:53:11
1	Ba 233.527†	122967.5	124427.6	[1000] ug/L		17:53:11
1	Be 313.107†	2711270.9	2747906.8	[1000] ug/L		17:53:05
1	Cd 226.502†	88510.9	89733.7	[1000] ug/L		17:53:11
1	Co 228.616†	47103.9	47726.0	[1000] ug/L		17:53:11
1	Cr 267.716†	94361.3	95399.9	[1000] ug/L		17:53:11
1	Cu 324.752†	363541.9	358840.2	[1000] ug/L		17:53:11
1	Mn 257.610†	880435.2	890202.4	[1000] ug/L		17:53:05
1	Mo 202.031†	14507.5	14667.2	[1000] ug/L		17:53:31
1	Ni 231.604†	41223.9	41627.4	[1000] ug/L		17:53:11
1	P 214.914†	9247.9	9107.8	[5000] ug/L		17:53:31
1	Pb 220.353†	8219.4	8361.1	[1000] ug/L		17:53:31
1	S 181.975 Axial†	1525.6	1500.8	[2000] ug/L		17:53:31
1	Sb 206.836†	3135.3	3137.3	[1000] ug/L		17:53:31
1	Se 196.026†	1783.6	1828.2	[1000] ug/L		17:53:31
1	Si 251.611†	163916.4	165437.3	[5000] ug/L		17:53:11
1	Sn 189.927†	5489.6	5553.0	[1000] ug/L		17:53:31
1	Ti 334.940†	654276.8	662973.4	[1000] ug/L		17:53:05
1	Tl 190.801†	3018.1	3098.5	[1000] ug/L		17:53:31
1	U 409.014†	36299.9	39519.9	[1000] ug/L		17:53:11
1	V 292.402†	152017.2	155268.3	[1000] ug/L		17:53:11
1	Zn 213.857†	110110.4	110482.5	[1000] ug/L		17:53:11
1	SiO2†	163924.5	165451.5	[10695] ug/L		17:54:41
2	Sc Radial	5589.6	5589.6	106 %		17:52:12
2	Y RADIAL	5836.6	5836.6	105.7 %		17:52:12
2	Al 396.153Radial†	12630.3	12025.5	[10000] ug/L		17:52:12
2	Ca 317.933Radial†	6418.9	6036.5	[10000] ug/L		17:52:12
2	Fe 238.204 Radial†	1105.4	1033.0	[10000] ug/L		17:52:32
2	K 766.490 Radial†	61500.7	55374.1	[10000] ug/L		17:52:12
2	Mg 279.077 IEC†	277.5	260.5	[10000] ug/L		17:52:32
2	Na 589.592 Radial†	34241.2	32899.5	[10000] ug/L		17:52:12
2	Sr 421.552†	172765.9	162964.2	[1000] ug/L		17:52:12
2	Sc 361.383	996858.7	996858.7	100.49 %		17:53:37
2	Y 371.029	830704.3	830704.3	96.598 %		17:53:43
2	Ag 328.068†	236063.9	234535.5	[1000] ug/L		17:53:43
2	As 188.979†	2389.9	2414.7	[1000] ug/L		17:54:03
2	B 249.677†	43311.9	43441.2	[1000] ug/L		17:53:43
2	Ba 233.527†	123441.7	122854.7	[1000] ug/L		17:53:43
2	Be 313.107†	2741186.2	2732588.8	[1000] ug/L		17:53:37
2	Cd 226.502†	88757.7	88507.4	[1000] ug/L		17:53:43
2	Co 228.616†	47198.6	47037.0	[1000] ug/L		17:53:43
2	Cr 267.716†	94566.3	94034.8	[1000] ug/L		17:53:43
2	Cu 324.752†	363781.7	353033.3	[1000] ug/L		17:53:43
2	Mn 257.610†	890899.6	885974.4	[1000] ug/L		17:53:37
2	Mo 202.031†	14564.0	14482.2	[1000] ug/L		17:54:03
2	Ni 231.604†	41287.2	41004.9	[1000] ug/L		17:53:43

2	P 214.914†	9279.6	8985.6	[5000]	ug/L	17:54:03
2	Pb 220.353†	8261.1	8265.8	[1000]	ug/L	17:54:03
2	S 181.975 Axial†	1525.2	1475.0	[2000]	ug/L	17:54:03
2	Sb 206.836†	3144.0	3093.7	[1000]	ug/L	17:54:03
2	Se 196.026†	1795.7	1810.6	[1000]	ug/L	17:54:03
2	Si 251.611†	164171.0	162964.9	[5000]	ug/L	17:53:43
2	Sn 189.927†	5510.8	5482.7	[1000]	ug/L	17:54:03
2	Ti 334.940†	661904.1	659683.2	[1000]	ug/L	17:53:37
2	Tl 190.801†	3041.3	3071.5	[1000]	ug/L	17:54:03
2	U 409.014†	36288.0	38904.4	[1000]	ug/L	17:53:43
2	V 292.402†	152323.2	153044.8	[1000]	ug/L	17:53:43
2	Zn 213.857†	110457.6	108996.9	[1000]	ug/L	17:53:43
2	SiO2†	164176.6	162976.4	[10695]	ug/L	17:54:46
3	Sc Radial	5486.0	5486.0	104	%	17:52:37
3	Y RADIAL	5747.1	5747.1	104.1	%	17:52:37
3	Al 396.153Radial†	12422.7	12051.1	[10000]	ug/L	17:52:37
3	Ca 317.933Radial†	6324.6	6060.3	[10000]	ug/L	17:52:37
3	Fe 238.204 Radial†	1107.9	1055.1	[10000]	ug/L	17:52:57
3	K 766.490 Radial†	60551.5	55557.8	[10000]	ug/L	17:52:37
3	Mg 279.077 IEC†	282.9	270.6	[10000]	ug/L	17:52:57
3	Na 589.592 Radial†	33440.8	32740.3	[10000]	ug/L	17:52:37
3	Sr 421.552†	169431.5	162838.2	[1000]	ug/L	17:52:37
3	Sc 361.383	990214.0	990214.0	99.821	%	17:54:10
3	Y 371.029	822611.5	822611.5	95.657	%	17:54:15
3	Ag 328.068†	233903.1	233947.1	[1000]	ug/L	17:54:15
3	As 188.979†	2394.2	2435.0	[1000]	ug/L	17:54:35
3	B 249.677†	42971.5	43389.5	[1000]	ug/L	17:54:15
3	Ba 233.527†	122005.8	122240.5	[1000]	ug/L	17:54:15
3	Be 313.107†	2733985.3	2743679.4	[1000]	ug/L	17:54:10
3	Cd 226.502†	87991.0	88332.0	[1000]	ug/L	17:54:15
3	Co 228.616†	46774.5	46927.2	[1000]	ug/L	17:54:15
3	Cr 267.716†	93702.0	93800.4	[1000]	ug/L	17:54:15
3	Cu 324.752†	359396.0	351068.9	[1000]	ug/L	17:54:15
3	Mn 257.610†	890018.6	891040.9	[1000]	ug/L	17:54:10
3	Mo 202.031†	14548.4	14563.9	[1000]	ug/L	17:54:35
3	Ni 231.604†	41028.7	41021.6	[1000]	ug/L	17:54:15
3	P 214.914†	9288.5	9056.5	[5000]	ug/L	17:54:35
3	Pb 220.353†	8253.7	8313.6	[1000]	ug/L	17:54:35
3	S 181.975 Axial†	1530.6	1490.6	[2000]	ug/L	17:54:35
3	Sb 206.836†	3161.5	3132.3	[1000]	ug/L	17:54:35
3	Se 196.026†	1799.6	1826.5	[1000]	ug/L	17:54:35
3	Si 251.611†	162562.7	162449.9	[5000]	ug/L	17:54:15
3	Sn 189.927†	5521.3	5530.0	[1000]	ug/L	17:54:35
3	Ti 334.940†	660948.3	663145.5	[1000]	ug/L	17:54:10
3	Tl 190.801†	3044.5	3095.0	[1000]	ug/L	17:54:35
3	U 409.014†	35928.1	38786.1	[1000]	ug/L	17:54:15
3	V 292.402†	150935.1	152671.4	[1000]	ug/L	17:54:15
3	Zn 213.857†	109405.4	108680.4	[1000]	ug/L	17:54:15
3	SiO2†	164534.0	164430.7	[10695]	ug/L	17:54:51

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	989182.2	8241.04	0.83%	99.717	%
Sc Radial	5507.4	73.87	1.34%	104	%
Y 371.029	827396.0	4243.56	0.51%	96.213	%
Y RADIAL	5769.4	59.22	1.03%	104.5	%
Ag 328.068†	235512.4	2221.25	0.94%	[1000]	ug/L
Al 396.153Radial†	12043.3	15.50	0.13%	[10000]	ug/L
As 188.979†	2430.3	13.83	0.57%	[1000]	ug/L
B 249.677†	43585.3	295.46	0.68%	[1000]	ug/L
Ba 233.527†	123174.3	1128.04	0.92%	[1000]	ug/L
Be 313.107†	2741391.7	7911.14	0.29%	[1000]	ug/L
Ca 317.933Radial†	6044.8	13.46	0.22%	[10000]	ug/L
Cd 226.502†	88857.7	763.70	0.86%	[1000]	ug/L
Co 228.616†	47230.1	432.98	0.92%	[1000]	ug/L
Cr 267.716†	94411.7	863.83	0.91%	[1000]	ug/L
Cu 324.752†	354314.1	4040.84	1.14%	[1000]	ug/L
Fe 238.204 Radial†	1051.1	16.43	1.56%	[10000]	ug/L
K 766.490 Radial†	55477.7	94.08	0.17%	[10000]	ug/L

Mg 279.077 IEC†	267.1	5.75	2.15%	[10000]	ug/L
Mn 257.610†	889072.6	2715.64	0.31%	[1000]	ug/L
Mo 202.031†	14571.1	92.70	0.64%	[1000]	ug/L
Na 589.592 Radial†	32744.3	153.26	0.47%	[10000]	ug/L
Ni 231.604†	41218.0	354.67	0.86%	[1000]	ug/L
P 214.914†	9050.0	61.37	0.68%	[5000]	ug/L
Pb 220.353†	8313.5	47.63	0.57%	[1000]	ug/L
S 181.975 Axial†	1488.8	12.97	0.87%	[2000]	ug/L
Sb 206.836†	3121.1	23.82	0.76%	[1000]	ug/L
Se 196.026†	1821.8	9.71	0.53%	[1000]	ug/L
Si 251.611†	163617.4	1597.03	0.98%	[5000]	ug/L
Sn 189.927†	5521.9	35.83	0.65%	[1000]	ug/L
Sr 421.552†	162565.4	584.95	0.36%	[1000]	ug/L
Ti 334.940†	661934.1	1951.21	0.29%	[1000]	ug/L
Tl 190.801†	3088.3	14.70	0.48%	[1000]	ug/L
U 409.014†	39070.2	393.98	1.01%	[1000]	ug/L
V 292.402†	153661.5	1404.01	0.91%	[1000]	ug/L
Zn 213.857†	109386.6	962.17	0.88%	[1000]	ug/L
SiO2†	164286.2	1243.87	0.76%	[10695]	ug/L

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

Autosampler Location: 5
 Date Collected: 1/29/2010 17:57:02
 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	5423.6	5423.6	103 %	17:59:16
1	Y RADIAL	5649.5	5649.5	102.3 %	17:59:16
1	Al 396.153Radial†	63177.1	61548.5	[50000] ug/L	17:58:56
1	Ca 317.933Radial†	30719.3	29854.8	[50000] ug/L	17:58:56
1	Fe 238.204 Radial†	2163.7	2094.2	[20000] ug/L	17:59:16
1	Mg 279.077 IEC†	1354.9	1316.4	[50000] ug/L	17:59:16
1	Na 589.592 Radial†	66947.0	65695.6	[20000] ug/L	17:58:56
1	Sc 361.383	967896.5	967896.5	97.572 %	18:00:13
1	Y 371.029	824832.1	824832.1	95.915 %	18:00:13
2	Sc Radial	5426.4	5426.4	103 %	17:59:41
2	Y RADIAL	5653.6	5653.6	102.4 %	17:59:41
2	Al 396.153Radial†	64106.8	62420.9	[50000] ug/L	17:59:21
2	Ca 317.933Radial†	31104.0	30213.4	[50000] ug/L	17:59:21
2	Fe 238.204 Radial†	2143.1	2073.1	[20000] ug/L	17:59:41
2	Mg 279.077 IEC†	1346.8	1307.8	[50000] ug/L	17:59:41
2	Na 589.592 Radial†	67385.4	66088.5	[20000] ug/L	17:59:21
2	Sc 361.383	955330.0	955330.0	96.305 %	18:00:19
2	Y 371.029	814662.5	814662.5	94.733 %	18:00:19
3	Sc Radial	5459.1	5459.1	103 %	18:00:06
3	Y RADIAL	5691.4	5691.4	103.0 %	18:00:06
3	Al 396.153Radial†	64032.1	61975.2	[50000] ug/L	17:59:46
3	Ca 317.933Radial†	31103.1	30031.3	[50000] ug/L	17:59:46
3	Fe 238.204 Radial†	2160.8	2077.8	[20000] ug/L	18:00:06
3	Mg 279.077 IEC†	1347.3	1300.4	[50000] ug/L	18:00:06
3	Na 589.592 Radial†	67046.3	65368.2	[20000] ug/L	17:59:46
3	Sc 361.383	963362.2	963362.2	97.115 %	18:00:24
3	Y 371.029	821494.1	821494.1	95.527 %	18:00:24

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	962196.2	6363.89	0.66%	96.997 %
Sc Radial	5436.4	19.74	0.36%	103 %
Y 371.029	820329.6	5183.85	0.63%	95.392 %
Y RADIAL	5664.8	23.08	0.41%	102.6 %
Al 396.153Radial†	61981.5	436.22	0.70%	[50000] ug/L
Ca 317.933Radial†	30033.2	179.32	0.60%	[50000] ug/L
Fe 238.204 Radial†	2081.7	11.12	0.53%	[20000] ug/L
Mg 279.077 IEC†	1308.2	7.99	0.61%	[50000] ug/L
Na 589.592 Radial†	65717.5	360.64	0.55%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	235.6	0.00000	0.999997	
Al 396.153Radial	3	Lin Thru 0	0.0	1.238	0.00000	0.999981	
As 188.979	3	Lin Thru 0	0.0	2.433	0.00000	0.999995	
B 249.677	3	Lin Thru 0	0.0	43.55	0.00000	0.999986	
Ba 233.527	3	Lin Thru 0	0.0	123.3	0.00000	0.999994	
Be 313.107	3	Lin Thru 0	0.0	2741	0.00000	0.999998	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.6007	0.00000	0.999998	
Cd 226.502	3	Lin Thru 0	0.0	89.05	0.00000	0.999988	
Co 228.616	3	Lin Thru 0	0.0	47.31	0.00000	0.999984	
Cr 267.716	3	Lin Thru 0	0.0	94.51	0.00000	0.999994	
Cu 324.752	3	Lin Thru 0	0.0	354.2	0.00000	0.999993	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1043	0.00000	0.999992	
K 766.490 Radial	3	Lin Thru 0	0.0	5.538	0.00000	0.999994	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0262	0.00000	0.999989
Mn 257.610	3	Lin Thru 0	0.0	889.8	0.00000	0.999996
Mo 202.031	3	Lin Thru 0	0.0	14.56	0.00000	0.999997
Na 589.592 Radia	2	Lin Thru 0	0.0	3.284	0.00000	0.999999
Ni 231.604	3	Lin Thru 0	0.0	41.31	0.00000	0.999980
P 214.914	3	Lin Thru 0	0.0	1.809	0.00000	0.999995
Pb 220.353	3	Lin Thru 0	0.0	8.318	0.00000	0.999999
S 181.975 Axial	3	Lin Thru 0	0.0	0.7446	0.00000	0.999994
Sb 206.836	3	Lin Thru 0	0.0	3.114	0.00000	0.999982
Se 196.026	3	Lin Thru 0	0.0	1.825	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	32.74	0.00000	0.999993
Sn 189.927	3	Lin Thru 0	0.0	5.513	0.00000	0.999989
Sr 421.552	3	Lin Thru 0	0.0	162.4	0.00000	0.999997
Ti 334.940	3	Lin Thru 0	0.0	659.3	0.00000	0.999967
Tl 190.801	3	Lin Thru 0	0.0	3.090	0.00000	0.999999
U 409.014	3	Lin Thru 0	0.0	39.17	0.00000	0.999968
V 292.402	3	Lin Thru 0	0.0	153.7	0.00000	0.999994
Zn 213.857	3	Lin Thru 0	0.0	109.5	0.00000	0.999988
SiO2	3	Lin Thru 0	0.0	15.33	0.00000	0.999990

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

Autosampler Location: 9
 Date Collected: 1/29/2010 18:02:36
 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	5597.7	5597.7	106 %		18:04:29
1	Y RADIAL	5847.2	5847.2	105.9 %		18:04:29
1	Al 396.153Radial†	6220.8	5968.7	4795.5 ug/L	4795.5 ppb	18:04:29
1	Ca 317.933Radial†	3159.0	2956.0	4920.6 ug/L	4920.6 ppb	18:04:50
1	Fe 238.204 Radial†	580.8	537.2	5166.2 ug/L	5166.2 ppb	18:04:50
1	K 766.490 Radial†	17100.1	13452.0	2425.6 ug/L	2425.6 ppb	18:04:29
1	Mg 279.077 IEC†	150.1	140.0	5347.2 ug/L	5347.2 ppb	18:04:50
1	Na 589.592 Radial†	8520.4	8616.3	2624.0 ug/L	2624.0 ppb	18:04:29
1	Sr 421.552†	91747.1	86385.0	532.03 ug/L	532.03 ppb	18:04:29
1	Sc 361.383	988207.7	988207.7	99.619 %		18:05:47
1	Y 371.029	850188.3	850188.3	98.864 %		18:05:47
1	Ag 328.068†	60915.8	60774.1	261.18 ug/L	261.18 ppb	18:05:47
1	As 188.979†	1109.1	1149.9	476.92 ug/L	476.92 ppb	18:06:07
1	B 249.677†	22344.6	22771.1	520.55 ug/L	520.55 ppb	18:05:47
1	Ba 233.527†	62766.5	63022.8	512.42 ug/L	512.42 ppb	18:05:47
1	Be 313.107†	709094.8	716608.2	262.60 ug/L	262.60 ppb	18:05:47
1	Cd 226.502†	43330.5	43679.7	490.39 ug/L	490.39 ppb	18:06:07
1	Co 228.616†	23708.8	23868.5	504.64 ug/L	504.64 ppb	18:06:07
1	Cr 267.716†	46285.4	46393.1	491.51 ug/L	491.51 ppb	18:05:47
1	Cu 324.752†	189943.0	181699.1	513.00 ug/L	513.00 ppb	18:05:47
1	Mn 257.610†	457480.3	458659.1	515.76 ug/L	515.76 ppb	18:05:47
1	Mo 202.031†	7786.3	7805.5	536.48 ug/L	536.48 ppb	18:06:07
1	Ni 231.604†	20653.2	20651.7	499.56 ug/L	499.56 ppb	18:06:07
1	P 214.914†	4791.1	4560.8	2421.0 ug/L	2421.0 ppb	18:06:07
1	Pb 220.353†	4120.5	4181.4	504.39 ug/L	504.39 ppb	18:06:07
1	S 181.975 Axial†	1890.7	1855.1	2490.5 ug/L	2490.5 ppb	18:06:07
1	Sb 206.836†	1572.3	1543.5	515.14 ug/L	515.14 ppb	18:06:07
1	Se 196.026†	4611.4	4652.7	2567.9 ug/L	2567.9 ppb	18:06:07
1	Si 251.611†	158860.5	159064.2	4852.4 ug/L	4852.4 ppb	18:05:47
1	Sn 189.927†	2939.6	2949.7	535.89 ug/L	535.89 ppb	18:06:07
1	Ti 334.940†	326017.2	328278.2	497.75 ug/L	497.75 ppb	18:05:47
1	Tl 190.801†	1583.6	1634.7	532.44 ug/L	532.44 ppb	18:06:07
1	U 409.014†	16022.5	18877.6	480.24 ug/L	480.24 ppb	18:05:47
1	V 292.402†	76429.0	78187.4	515.89 ug/L	515.89 ppb	18:05:47
1	Zn 213.857†	56644.8	55940.5	506.26 ug/L	506.26 ppb	18:05:47
1	SiO2†	158342.6	158550.3	10326 ug/L	10326 ppb	18:07:05
2	Sc Radial	5623.3	5623.3	107 %		18:04:55
2	Y RADIAL	5881.4	5881.4	106.5 %		18:04:55
2	Al 396.153Radial†	6221.0	5942.2	4774.5 ug/L	4774.5 ppb	18:04:55
2	Ca 317.933Radial†	3120.0	2905.9	4837.3 ug/L	4837.3 ppb	18:05:15
2	Fe 238.204 Radial†	573.1	527.6	5073.5 ug/L	5073.5 ppb	18:05:15
2	K 766.490 Radial†	17119.8	13397.2	2415.8 ug/L	2415.8 ppb	18:04:55
2	Mg 279.077 IEC†	143.4	133.1	5082.5 ug/L	5082.5 ppb	18:05:15
2	Na 589.592 Radial†	8444.0	8508.2	2591.1 ug/L	2591.1 ppb	18:04:55
2	Sr 421.552†	91867.2	86105.0	530.31 ug/L	530.31 ppb	18:04:55
2	Sc 361.383	994591.3	994591.3	100.26 %		18:06:13
2	Y 371.029	856910.0	856910.0	99.645 %		18:06:13
2	Ag 328.068†	61102.0	60567.4	260.27 ug/L	260.27 ppb	18:06:13
2	As 188.979†	1113.8	1147.4	475.89 ug/L	475.89 ppb	18:06:33
2	B 249.677†	22396.9	22679.4	518.47 ug/L	518.47 ppb	18:06:13
2	Ba 233.527†	63027.9	62879.2	511.25 ug/L	511.25 ppb	18:06:13
2	Be 313.107†	714189.3	717120.8	262.78 ug/L	262.78 ppb	18:06:13
2	Cd 226.502†	43132.7	43203.3	485.04 ug/L	485.04 ppb	18:06:33
2	Co 228.616†	23597.3	23604.5	499.05 ug/L	499.05 ppb	18:06:33
2	Cr 267.716†	46650.9	46459.4	492.21 ug/L	492.21 ppb	18:06:13
2	Cu 324.752†	190254.0	180785.5	510.41 ug/L	510.41 ppb	18:06:13
2	Mn 257.610†	459845.6	458070.8	515.10 ug/L	515.10 ppb	18:06:13
2	Mo 202.031†	7739.7	7708.9	529.84 ug/L	529.84 ppb	18:06:33
2	Ni 231.604†	20589.0	20454.6	494.79 ug/L	494.79 ppb	18:06:33

2	P 214.914†	4758.5	4497.4	2386.5 ug/L	2386.5 ppb	18:06:33
2	Pb 220.353†	4108.1	4142.5	499.70 ug/L	499.70 ppb	18:06:33
2	S 181.975 Axial†	1875.0	1827.3	2453.2 ug/L	2453.2 ppb	18:06:33
2	Sb 206.836†	1575.8	1536.8	512.76 ug/L	512.76 ppb	18:06:33
2	Se 196.026†	4584.6	4596.3	2536.7 ug/L	2536.7 ppb	18:06:33
2	Si 251.611†	159527.0	158705.5	4841.5 ug/L	4841.5 ppb	18:06:13
2	Sn 189.927†	2926.7	2917.9	530.10 ug/L	530.10 ppb	18:06:33
2	Ti 334.940†	327887.2	328042.9	497.41 ug/L	497.41 ppb	18:06:13
2	Tl 190.801†	1577.8	1618.7	527.26 ug/L	527.26 ppb	18:06:33
2	U 409.014†	16193.9	18945.3	481.98 ug/L	481.98 ppb	18:06:13
2	V 292.402†	76881.6	78146.4	515.54 ug/L	515.54 ppb	18:06:13
2	Zn 213.857†	56969.6	55899.5	505.93 ug/L	505.93 ppb	18:06:13
2	SiO2†	157805.2	156994.1	10225 ug/L	10225 ppb	18:07:10
3	Sc Radial	5707.9	5707.9	108 %		18:05:20
3	Y RADIAL	5945.3	5945.3	107.6 %		18:05:20
3	Al 396.153Radial†	6332.1	5958.4	4787.3 ug/L	4787.3 ppb	18:05:20
3	Ca 317.933Radial†	3136.9	2878.1	4791.0 ug/L	4791.0 ppb	18:05:40
3	Fe 238.204 Radial†	576.3	522.5	5025.1 ug/L	5025.1 ppb	18:05:40
3	K 766.490 Radial†	17271.0	13298.9	2398.0 ug/L	2398.0 ppb	18:05:20
3	Mg 279.077 IEC†	148.0	135.4	5171.7 ug/L	5171.7 ppb	18:05:40
3	Na 589.592 Radial†	8529.3	8469.6	2579.4 ug/L	2579.4 ppb	18:05:20
3	Sr 421.552†	93058.9	85929.0	529.23 ug/L	529.23 ppb	18:05:20
3	Sc 361.383	986721.6	986721.6	99.469 %		18:06:39
3	Y 371.029	849227.0	849227.0	98.752 %		18:06:39
3	Ag 328.068†	60589.7	60538.4	260.12 ug/L	260.12 ppb	18:06:39
3	As 188.979†	1122.0	1164.5	482.86 ug/L	482.86 ppb	18:06:59
3	B 249.677†	22226.4	22686.1	518.61 ug/L	518.61 ppb	18:06:39
3	Ba 233.527†	62494.4	62844.2	510.96 ug/L	510.96 ppb	18:06:39
3	Be 313.107†	706993.3	715567.6	262.22 ug/L	262.22 ppb	18:06:39
3	Cd 226.502†	43262.9	43677.3	490.37 ug/L	490.37 ppb	18:06:59
3	Co 228.616†	23692.3	23887.8	505.05 ug/L	505.05 ppb	18:06:59
3	Cr 267.716†	46180.6	46357.7	491.13 ug/L	491.13 ppb	18:06:39
3	Cu 324.752†	189187.7	181226.9	511.66 ug/L	511.66 ppb	18:06:39
3	Mn 257.610†	455583.9	457444.3	514.39 ug/L	514.39 ppb	18:06:39
3	Mo 202.031†	7764.6	7795.4	535.78 ug/L	535.78 ppb	18:06:59
3	Ni 231.604†	20609.0	20638.5	499.24 ug/L	499.24 ppb	18:06:59
3	P 214.914†	4775.9	4552.7	2416.9 ug/L	2416.9 ppb	18:06:59
3	Pb 220.353†	4133.7	4200.9	506.74 ug/L	506.74 ppb	18:06:59
3	S 181.975 Axial†	1884.5	1851.8	2486.0 ug/L	2486.0 ppb	18:06:59
3	Sb 206.836†	1576.5	1550.1	517.27 ug/L	517.27 ppb	18:06:59
3	Se 196.026†	4610.8	4659.2	2571.0 ug/L	2571.0 ppb	18:06:59
3	Si 251.611†	158172.4	158612.6	4838.6 ug/L	4838.6 ppb	18:06:39
3	Sn 189.927†	2947.6	2962.2	538.13 ug/L	538.13 ppb	18:06:59
3	Ti 334.940†	324886.1	327634.0	496.77 ug/L	496.77 ppb	18:06:39
3	Tl 190.801†	1582.3	1635.8	532.78 ug/L	532.78 ppb	18:06:59
3	U 409.014†	16048.2	18927.6	481.53 ug/L	481.53 ppb	18:06:39
3	V 292.402†	75995.0	77866.7	513.81 ug/L	513.81 ppb	18:06:39
3	Zn 213.857†	56475.8	55856.3	505.51 ug/L	505.51 ppb	18:06:39
3	SiO2†	158555.0	159003.2	10356 ug/L	10356 ppb	18:07:15

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	989840.2	99.784 %	0.4215			0.42%
Sc Radial	5643.0	107 %	1.1			1.02%
Y 371.029	852108.4	99.087 %	0.4868			0.49%
Y RADIAL	5891.3	106.7 %	0.90			0.85%
Ag 328.068†	60626.6	260.52 ug/L	0.571	260.52 ppb	0.571	0.22%
QC value within limits for Ag 328.068 Recovery = 104.21%						
Al 396.153Radial†	5956.4	4785.8 ug/L	10.60	4785.8 ppb	10.60	0.22%
QC value within limits for Al 396.153Radial Recovery = 95.72%						
As 188.979†	1153.9	478.56 ug/L	3.763	478.56 ppb	3.763	0.79%
QC value within limits for As 188.979 Recovery = 95.71%						
B 249.677†	22712.2	519.21 ug/L	1.159	519.21 ppb	1.159	0.22%
QC value within limits for B 249.677 Recovery = 103.84%						
Ba 233.527†	62915.4	511.55 ug/L	0.772	511.55 ppb	0.772	0.15%
QC value within limits for Ba 233.527 Recovery = 102.31%						
Be 313.107†	716432.2	262.53 ug/L	0.290	262.53 ppb	0.290	0.11%
QC value within limits for Be 313.107 Recovery = 105.01%						
Ca 317.933Radial†	2913.3	4849.7 ug/L	65.70	4849.7 ppb	65.70	1.35%

QC value within limits for Ca 317.933 Radial Recovery = 96.99%							
Cd	226.502†	43520.1	488.60 ug/L	3.081	488.60 ppb	3.081	0.63%
QC value within limits for Cd 226.502 Recovery = 97.72%							
Co	228.616†	23786.9	502.91 ug/L	3.353	502.91 ppb	3.353	0.67%
QC value within limits for Co 228.616 Recovery = 100.58%							
Cr	267.716†	46403.4	491.62 ug/L	0.548	491.62 ppb	0.548	0.11%
QC value within limits for Cr 267.716 Recovery = 98.32%							
Cu	324.752†	181237.2	511.69 ug/L	1.293	511.69 ppb	1.293	0.25%
QC value within limits for Cu 324.752 Recovery = 102.34%							
Fe	238.204 Radial†	529.1	5088.3 ug/L	71.70	5088.3 ppb	71.70	1.41%
QC value within limits for Fe 238.204 Radial Recovery = 101.77%							
K	766.490 Radial†	13382.7	2413.1 ug/L	13.97	2413.1 ppb	13.97	0.58%
QC value within limits for K 766.490 Radial Recovery = 96.52%							
Mg	279.077 IEC†	136.2	5200.5 ug/L	134.67	5200.5 ppb	134.67	2.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.01%							
Mn	257.610†	458058.0	515.08 ug/L	0.686	515.08 ppb	0.686	0.13%
QC value within limits for Mn 257.610 Recovery = 103.02%							
Mo	202.031†	7769.9	534.03 ug/L	3.650	534.03 ppb	3.650	0.68%
QC value within limits for Mo 202.031 Recovery = 106.81%							
Na	589.592 Radial†	8531.3	2598.2 ug/L	23.16	2598.2 ppb	23.16	0.89%
QC value within limits for Na 589.592 Radial Recovery = 103.93%							
Ni	231.604†	20581.6	497.87 ug/L	2.666	497.87 ppb	2.666	0.54%
QC value within limits for Ni 231.604 Recovery = 99.57%							
P	214.914†	4536.9	2408.1 ug/L	18.87	2408.1 ppb	18.87	0.78%
QC value within limits for P 214.914 Recovery = 96.33%							
Pb	220.353†	4174.9	503.61 ug/L	3.586	503.61 ppb	3.586	0.71%
QC value within limits for Pb 220.353 Recovery = 100.72%							
S	181.975 Axial†	1844.7	2476.6 ug/L	20.37	2476.6 ppb	20.37	0.82%
QC value within limits for S 181.975 Axial Recovery = 99.06%							
Sb	206.836†	1543.5	515.06 ug/L	2.256	515.06 ppb	2.256	0.44%
QC value within limits for Sb 206.836 Recovery = 103.01%							
Se	196.026†	4636.1	2558.6 ug/L	18.97	2558.6 ppb	18.97	0.74%
QC value within limits for Se 196.026 Recovery = 102.34%							
Si	251.611†	158794.1	4844.2 ug/L	7.27	4844.2 ppb	7.27	0.15%
QC value within limits for Si 251.611 Recovery = 96.88%							
Sn	189.927†	2943.3	534.71 ug/L	4.145	534.71 ppb	4.145	0.78%
QC value within limits for Sn 189.927 Recovery = 106.94%							
Sr	421.552†	86139.7	530.52 ug/L	1.416	530.52 ppb	1.416	0.27%
QC value within limits for Sr 421.552 Recovery = 106.10%							
Ti	334.940†	327985.0	497.31 ug/L	0.497	497.31 ppb	0.497	0.10%
QC value within limits for Ti 334.940 Recovery = 99.46%							
Tl	190.801†	1629.7	530.83 ug/L	3.090	530.83 ppb	3.090	0.58%
QC value within limits for Tl 190.801 Recovery = 106.17%							
U	409.014†	18916.8	481.25 ug/L	0.903	481.25 ppb	0.903	0.19%
QC value within limits for U 409.014 Recovery = 96.25%							
V	292.402†	78066.8	515.08 ug/L	1.112	515.08 ppb	1.112	0.22%
QC value within limits for V 292.402 Recovery = 103.02%							
Zn	213.857†	55898.8	505.90 ug/L	0.377	505.90 ppb	0.377	0.07%
QC value within limits for Zn 213.857 Recovery = 101.18%							
SiO2†		158182.5	10302 ug/L	68.6	10302 ppb	68.6	0.67%
QC value within limits for SiO2 Recovery = 96.33%							
All analyte(s) passed QC.							

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

Autosampler Location: 10
 Date Collected: 1/29/2010 18:09:27
 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	5689.2	5689.2	108 %		18:11:19
1	Y RADIAL	5986.6	5986.6	108.4 %		18:11:19
1	Al 396.153Radial†	-117.3	-1.9	-1.5125 ug/L	-1.5125 ppb	18:11:40
1	Ca 317.933Radial†	21.5	-0.7	-1.2289 ug/L	-1.2289 ppb	18:11:40
1	Fe 238.204 Radial†	6.3	-4.2	-40.696 ug/L	-40.696 ppb	18:11:40
1	K 766.490 Radial†	2771.1	-92.0	-16.624 ug/L	-16.624 ppb	18:11:19
1	Mg 279.077 IEC†	5.4	3.6	139.01 ug/L	139.01 ppb	18:11:40
1	Na 589.592 Radial†	-570.2	59.0	17.962 ug/L	17.962 ppb	18:11:19
1	Sr 421.552†	50.4	-20.0	-0.1234 ug/L	-0.1234 ppb	18:11:19
1	Sc 361.383	996473.8	996473.8	100.45 %		18:12:36
1	Y 371.029	865083.0	865083.0	100.60 %		18:12:36
1	Ag 328.068†	406.7	30.3	0.1187 ug/L	0.1187 ppb	18:12:41
1	As 188.979†	-29.4	7.3	2.9789 ug/L	2.9789 ppb	18:13:01
1	B 249.677†	-65.5	275.9	6.3408 ug/L	6.3408 ppb	18:13:01
1	Ba 233.527†	-17.3	-0.8	-0.0081 ug/L	-0.0081 ppb	18:13:01
1	Be 313.107†	-4591.4	231.8	0.0849 ug/L	0.0849 ppb	18:12:41
1	Cd 226.502†	-188.3	-3.9	-0.0409 ug/L	-0.0409 ppb	18:13:01
1	Co 228.616†	-72.0	-2.6	-0.0549 ug/L	-0.0549 ppb	18:13:01
1	Cr 267.716†	78.2	8.6	0.0914 ug/L	0.0914 ppb	18:13:01
1	Cu 324.752†	8984.8	-25.8	-0.0728 ug/L	-0.0728 ppb	18:12:41
1	Mn 257.610†	539.7	-32.9	-0.0466 ug/L	-0.0466 ppb	18:13:01
1	Mo 202.031†	12.5	1.9	0.1258 ug/L	0.1258 ppb	18:13:01
1	Ni 231.604†	77.3	-3.5	-0.0850 ug/L	-0.0850 ppb	18:13:01
1	P 214.914†	246.2	-3.6	-1.9416 ug/L	-1.9416 ppb	18:13:01
1	Pb 220.353†	-27.8	17.4	2.0991 ug/L	2.0991 ppb	18:13:01
1	S 181.975 Axial†	41.2	-1.7	-2.3280 ug/L	-2.3280 ppb	18:13:01
1	Sb 206.836†	36.7	1.7	0.5512 ug/L	0.5512 ppb	18:13:01
1	Se 196.026†	-25.1	-1.3	-0.8457 ug/L	-0.8457 ppb	18:13:01
1	Si 251.611†	409.1	3.6	0.1085 ug/L	0.1085 ppb	18:13:01
1	Sn 189.927†	5.6	4.4	0.8032 ug/L	0.8032 ppb	18:13:01
1	Ti 334.940†	-937.2	81.7	0.1141 ug/L	0.1141 ppb	18:12:41
1	Tl 190.801†	-33.2	12.0	3.8849 ug/L	3.8849 ppb	18:13:01
1	U 409.014†	-2963.3	-156.2	-3.9828 ug/L	-3.9828 ppb	18:12:36
1	V 292.402†	-1478.2	-5.4	-0.0322 ug/L	-0.0322 ppb	18:12:41
1	Zn 213.857†	917.3	-7.6	-0.0648 ug/L	-0.0648 ppb	18:13:01
1	SiO2†	446.8	47.1	3.0709 ug/L	3.0709 ppb	18:14:07
2	Sc Radial	5498.2	5498.2	104 %		18:11:45
2	Y RADIAL	5808.1	5808.1	105.2 %		18:11:45
2	Al 396.153Radial†	-117.6	-5.9	-4.7929 ug/L	-4.7929 ppb	18:12:05
2	Ca 317.933Radial†	20.3	-1.2	-1.9618 ug/L	-1.9618 ppb	18:12:05
2	Fe 238.204 Radial†	10.5	0.0	0.4070 ug/L	0.4070 ppb	18:12:05
2	K 766.490 Radial†	2647.5	-121.3	-21.917 ug/L	-21.917 ppb	18:11:45
2	Mg 279.077 IEC†	1.6	0.2	7.4787 ug/L	7.4787 ppb	18:12:05
2	Na 589.592 Radial†	-561.4	49.1	14.938 ug/L	14.938 ppb	18:11:45
2	Sr 421.552†	44.3	-24.2	-0.1493 ug/L	-0.1493 ppb	18:11:45
2	Sc 361.383	1005796.7	1005796.7	101.39 %		18:13:07
2	Y 371.029	871720.6	871720.6	101.37 %		18:13:07
2	Ag 328.068†	466.5	85.5	0.3606 ug/L	0.3606 ppb	18:13:12
2	As 188.979†	-33.2	3.8	1.5579 ug/L	1.5579 ppb	18:13:32
2	B 249.677†	-83.0	259.2	5.9518 ug/L	5.9518 ppb	18:13:32
2	Ba 233.527†	-15.8	0.9	0.0071 ug/L	0.0071 ppb	18:13:32
2	Be 313.107†	-4731.9	135.6	0.0497 ug/L	0.0497 ppb	18:13:12
2	Cd 226.502†	-187.5	-1.4	-0.0149 ug/L	-0.0149 ppb	18:13:32
2	Co 228.616†	-63.4	6.6	0.1396 ug/L	0.1396 ppb	18:13:32
2	Cr 267.716†	57.7	-12.3	-0.1319 ug/L	-0.1319 ppb	18:13:32
2	Cu 324.752†	8944.3	-148.6	-0.4216 ug/L	-0.4216 ppb	18:13:12
2	Mn 257.610†	519.2	-58.0	-0.0655 ug/L	-0.0655 ppb	18:13:32
2	Mo 202.031†	17.8	6.9	0.4760 ug/L	0.4760 ppb	18:13:32
2	Ni 231.604†	84.1	2.4	0.0592 ug/L	0.0592 ppb	18:13:32

2	P 214.914†	246.5	-5.6	-3.0050 ug/L	-3.0050 ppb	18:13:32
2	Pb 220.353†	-32.5	13.1	1.5715 ug/L	1.5715 ppb	18:13:32
2	S 181.975 Axial†	45.7	2.4	3.1662 ug/L	3.1662 ppb	18:13:32
2	Sb 206.836†	31.9	-3.4	-1.0496 ug/L	-1.0496 ppb	18:13:32
2	Se 196.026†	-20.2	3.8	2.0848 ug/L	2.0848 ppb	18:13:32
2	Si 251.611†	385.2	-23.7	-0.7301 ug/L	-0.7301 ppb	18:13:32
2	Sn 189.927†	7.6	6.4	1.1541 ug/L	1.1541 ppb	18:13:32
2	Ti 334.940†	-970.7	57.3	0.0845 ug/L	0.0845 ppb	18:13:12
2	Tl 190.801†	-43.6	2.1	0.6663 ug/L	0.6663 ppb	18:13:32
2	U 409.014†	-2692.7	138.1	3.5253 ug/L	3.5253 ppb	18:13:07
2	V 292.402†	-1476.6	9.9	0.0780 ug/L	0.0780 ppb	18:13:12
2	Zn 213.857†	932.8	-0.8	-0.0071 ug/L	-0.0071 ppb	18:13:32
2	SiO2†	406.9	3.6	0.2247 ug/L	0.2247 ppb	18:14:12
3	Sc Radial	5558.5	5558.5	105 %		18:12:10
3	Y RADIAL	5849.4	5849.4	105.9 %		18:12:10
3	Al 396.153Radial†	-115.3	-2.5	-2.0950 ug/L	-2.0950 ppb	18:12:30
3	Ca 317.933Radial†	17.8	-3.8	-6.3651 ug/L	-6.3651 ppb	18:12:30
3	Fe 238.204 Radial†	8.2	-2.3	-22.159 ug/L	-22.159 ppb	18:12:30
3	K 766.490 Radial†	2575.6	-217.1	-39.200 ug/L	-39.200 ppb	18:12:10
3	Mg 279.077 IEC†	0.9	-0.6	-20.971 ug/L	-20.971 ppb	18:12:30
3	Na 589.592 Radial†	-652.5	-31.6	-9.6177 ug/L	-9.6177 ppb	18:12:10
3	Sr 421.552†	80.8	10.0	0.0615 ug/L	0.0615 ppb	18:12:10
3	Sc 361.383	993464.3	993464.3	100.15 %		18:13:37
3	Y 371.029	863920.1	863920.1	100.46 %		18:13:37
3	Ag 328.068†	323.1	-51.9	-0.2264 ug/L	-0.2264 ppb	18:13:42
3	As 188.979†	-35.1	1.4	0.5812 ug/L	0.5812 ppb	18:14:02
3	B 249.677†	-89.5	251.8	5.7844 ug/L	5.7844 ppb	18:14:02
3	Ba 233.527†	-11.9	4.5	0.0358 ug/L	0.0358 ppb	18:14:02
3	Be 313.107†	-4646.2	163.2	0.0595 ug/L	0.0595 ppb	18:13:42
3	Cd 226.502†	-169.9	13.9	0.1580 ug/L	0.1580 ppb	18:14:02
3	Co 228.616†	-67.8	1.4	0.0327 ug/L	0.0327 ppb	18:14:02
3	Cr 267.716†	41.3	-28.1	-0.2970 ug/L	-0.2970 ppb	18:14:02
3	Cu 324.752†	9198.2	214.4	0.6045 ug/L	0.6045 ppb	18:13:42
3	Mn 257.610†	516.4	-54.5	-0.0626 ug/L	-0.0626 ppb	18:14:02
3	Mo 202.031†	27.5	16.9	1.1557 ug/L	1.1557 ppb	18:14:02
3	Ni 231.604†	80.6	0.0	0.0011 ug/L	0.0011 ppb	18:14:02
3	P 214.914†	249.6	0.5	0.2032 ug/L	0.2032 ppb	18:14:02
3	Pb 220.353†	-43.8	1.4	0.1757 ug/L	0.1757 ppb	18:14:02
3	S 181.975 Axial†	50.3	7.4	10.004 ug/L	10.004 ppb	18:14:02
3	Sb 206.836†	48.5	13.6	4.4065 ug/L	4.4065 ppb	18:14:02
3	Se 196.026†	-25.5	-1.7	-1.0129 ug/L	-1.0129 ppb	18:14:02
3	Si 251.611†	406.9	2.7	0.0681 ug/L	0.0681 ppb	18:14:02
3	Sn 189.927†	8.4	7.3	1.3261 ug/L	1.3261 ppb	18:14:02
3	Ti 334.940†	-1026.7	-10.5	-0.0148 ug/L	-0.0148 ppb	18:13:42
3	Tl 190.801†	-36.4	8.7	2.7990 ug/L	2.7990 ppb	18:14:02
3	U 409.014†	-2815.5	-17.5	-0.4447 ug/L	-0.4447 ppb	18:13:37
3	V 292.402†	-1449.8	18.6	0.1394 ug/L	0.1394 ppb	18:13:42
3	Zn 213.857†	915.0	-7.1	-0.0638 ug/L	-0.0638 ppb	18:14:02
3	SiO2†	425.8	27.5	1.7593 ug/L	1.7593 ppb	18:14:17

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	998578.2	100.66 %		0.648				0.64%
Sc Radial	5582.0	106 %		1.9				1.75%
Y 371.029	866907.9	100.81 %		0.489				0.49%
Y RADIAL	5881.4	106.5 %		1.69				1.59%
Ag 328.068†	21.3	0.0843 ug/L		0.29498	0.0843 ppb		0.29498	349.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-3.4	-2.8001 ug/L		1.75021	-2.8001 ppb		1.75021	62.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	4.2	1.7060 ug/L		1.20568	1.7060 ppb		1.20568	70.67%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	262.3	6.0256 ug/L		0.28548	6.0256 ppb		0.28548	4.74%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.5	0.0116 ug/L		0.02227	0.0116 ppb		0.02227	191.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	176.9	0.0647 ug/L		0.01815	0.0647 ppb		0.01815	28.07%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-1.9	-3.1853 ug/L		2.77812	-3.1853 ppb		2.77812	87.22%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	2.8	0.0341 ug/L	0.10808	0.0341 ppb	0.10808	317.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.8	0.0391 ug/L	0.09741	0.0391 ppb	0.09741	249.17%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-10.6	-0.1125 ug/L	0.19493	-0.1125 ppb	0.19493	173.27%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	13.3	0.0367 ug/L	0.52172	0.0367 ppb	0.52172	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.2	-20.816 ug/L	20.5845	-20.816 ppb	20.5845	98.89%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-143.5	-25.914 ug/L	11.8066	-25.914 ppb	11.8066	45.56%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.1	41.840 ug/L	85.3468	41.840 ppb	85.3468	203.99%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-48.5	-0.0582 ug/L	0.01015	-0.0582 ppb	0.01015	17.44%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	8.6	0.5858 ug/L	0.52366	0.5858 ppb	0.52366	89.39%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	25.5	7.7608 ug/L	15.12594	7.7608 ppb	15.12594	194.90%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-0.3	-0.0082 ug/L	0.07252	-0.0082 ppb	0.07252	879.24%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.9	-1.5811 ug/L	1.63417	-1.5811 ppb	1.63417	103.35%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.6	1.2821 ug/L	0.99378	1.2821 ppb	0.99378	77.51%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.7	3.6142 ug/L	6.17835	3.6142 ppb	6.17835	170.95%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.0	1.3027 ug/L	2.80458	1.3027 ppb	2.80458	215.29%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.3	0.0754 ug/L	1.74221	0.0754 ppb	1.74221	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-5.8	-0.1845 ug/L	0.47296	-0.1845 ppb	0.47296	256.33%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.0	1.0945 ug/L	0.26650	1.0945 ppb	0.26650	24.35%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-11.4	-0.0704 ug/L	0.11496	-0.0704 ppb	0.11496	163.24%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	42.8	0.0613 ug/L	0.06752	0.0613 ppb	0.06752	110.17%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	7.6	2.4501 ug/L	1.63746	2.4501 ppb	1.63746	66.83%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-11.9	-0.3007 ug/L	3.75609	-0.3007 ppb	3.75609	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	7.7	0.0617 ug/L	0.08697	0.0617 ppb	0.08697	140.90%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-5.2	-0.0452 ug/L	0.03303	-0.0452 ppb	0.03303	73.03%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	26.1	1.6850 ug/L	1.42455	1.6850 ppb	1.42455	84.54%
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: 1/29/2010 18:16:28

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	5647.2	5647.2	107 %		18:18:21
1	Y RADIAL	5933.0	5933.0	107.4 %		18:18:21
1	Al 396.153Radial†	153.3	250.1	201.52 ug/L	201.52 ppb	18:18:41
1	Ca 317.933Radial†	152.1	121.3	201.99 ug/L	201.99 ppb	18:18:41
1	Fe 238.204 Radial†	23.3	11.7	112.17 ug/L	112.17 ppb	18:18:41
1	K 766.490 Radial†	3473.0	582.7	105.01 ug/L	105.01 ppb	18:18:21
1	Mg 279.077 IEC†	10.8	8.7	331.60 ug/L	331.60 ppb	18:18:41
1	Na 589.592 Radial†	513.6	1067.3	325.05 ug/L	325.05 ppb	18:18:21
1	Sr 421.552†	935.0	806.6	4.9666 ug/L	4.9666 ppb	18:18:21
1	Sc 361.383	988544.5	988544.5	99.653 %		18:19:38
1	Y 371.029	858225.3	858225.3	99.798 %		18:19:38
1	Ag 328.068†	1723.3	1354.8	5.7578 ug/L	5.7578 ppb	18:19:43
1	As 188.979†	34.1	70.7	29.114 ug/L	29.114 ppb	18:20:03
1	B 249.677†	2006.8	2354.9	54.034 ug/L	54.034 ppb	18:19:43
1	Ba 233.527†	649.6	668.2	5.4327 ug/L	5.4327 ppb	18:20:03
1	Be 313.107†	9609.6	14445.5	5.2827 ug/L	5.2827 ppb	18:19:43
1	Cd 226.502†	286.5	471.1	5.2926 ug/L	5.2926 ppb	18:20:03
1	Co 228.616†	171.7	241.4	5.1130 ug/L	5.1130 ppb	18:20:03
1	Cr 267.716†	527.3	459.8	4.8531 ug/L	4.8531 ppb	18:20:03
1	Cu 324.752†	12817.0	3891.5	10.964 ug/L	10.964 ppb	18:19:43
1	Mn 257.610†	10225.8	9691.2	10.889 ug/L	10.889 ppb	18:19:43
1	Mo 202.031†	156.6	146.5	10.073 ug/L	10.073 ppb	18:20:03
1	Ni 231.604†	319.0	239.7	5.7985 ug/L	5.7985 ppb	18:20:03
1	P 214.914†	517.7	270.9	147.59 ug/L	147.59 ppb	18:20:03
1	Pb 220.353†	34.8	80.1	9.6801 ug/L	9.6801 ppb	18:20:03
1	S 181.975 Axial†	118.3	76.0	102.03 ug/L	102.03 ppb	18:20:03
1	Sb 206.836†	65.0	30.4	10.128 ug/L	10.128 ppb	18:20:03
1	Se 196.026†	46.8	70.7	39.122 ug/L	39.122 ppb	18:20:03
1	Si 251.611†	3691.7	3300.9	100.71 ug/L	100.71 ppb	18:20:03
1	Sn 189.927†	59.4	58.5	10.644 ug/L	10.644 ppb	18:20:03
1	Ti 334.940†	2469.1	3492.4	5.2721 ug/L	5.2721 ppb	18:19:43
1	Tl 190.801†	20.8	65.9	21.385 ug/L	21.385 ppb	18:20:03
1	U 409.014†	-718.5	2072.9	52.894 ug/L	52.894 ppb	18:19:43
1	V 292.402†	-778.4	685.1	4.6840 ug/L	4.6840 ppb	18:19:43
1	Zn 213.857†	1887.6	973.4	8.8228 ug/L	8.8228 ppb	18:20:03
1	SiO2†	3829.0	3444.7	224.39 ug/L	224.39 ppb	18:21:09
2	Sc Radial	5619.5	5619.5	107 %		18:18:46
2	Y RADIAL	5908.7	5908.7	107.0 %		18:18:46
2	Al 396.153Radial†	161.8	258.8	208.54 ug/L	208.54 ppb	18:19:06
2	Ca 317.933Radial†	156.6	126.3	210.18 ug/L	210.18 ppb	18:19:06
2	Fe 238.204 Radial†	21.3	9.9	95.269 ug/L	95.269 ppb	18:19:06
2	K 766.490 Radial†	3578.2	697.4	125.73 ug/L	125.73 ppb	18:18:46
2	Mg 279.077 IEC†	14.2	12.0	456.70 ug/L	456.70 ppb	18:19:06
2	Na 589.592 Radial†	500.5	1057.4	322.02 ug/L	322.02 ppb	18:18:46
2	Sr 421.552†	941.3	816.9	5.0297 ug/L	5.0297 ppb	18:18:46
2	Sc 361.383	995924.8	995924.8	100.40 %		18:20:08
2	Y 371.029	864290.4	864290.4	100.50 %		18:20:08
2	Ag 328.068†	1612.4	1231.5	5.2335 ug/L	5.2335 ppb	18:20:13
2	As 188.979†	39.0	75.3	31.005 ug/L	31.005 ppb	18:20:34
2	B 249.677†	2013.7	2346.9	53.853 ug/L	53.853 ppb	18:20:13
2	Ba 233.527†	624.3	638.2	5.1909 ug/L	5.1909 ppb	18:20:34
2	Be 313.107†	9556.6	14321.3	5.2371 ug/L	5.2371 ppb	18:20:13
2	Cd 226.502†	313.9	496.2	5.5764 ug/L	5.5764 ppb	18:20:34
2	Co 228.616†	178.0	246.3	5.2177 ug/L	5.2177 ppb	18:20:34
2	Cr 267.716†	546.0	474.5	5.0096 ug/L	5.0096 ppb	18:20:34
2	Cu 324.752†	12707.0	3686.7	10.385 ug/L	10.385 ppb	18:20:13
2	Mn 257.610†	10055.1	9445.2	10.606 ug/L	10.606 ppb	18:20:13
2	Mo 202.031†	158.3	147.1	10.112 ug/L	10.112 ppb	18:20:34
2	Ni 231.604†	327.1	245.4	5.9364 ug/L	5.9364 ppb	18:20:34

2	P 214.914†	512.6	261.9	142.77 ug/L	142.77 ppb	18:20:34
2	Pb 220.353†	46.9	91.8	11.100 ug/L	11.100 ppb	18:20:34
2	S 181.975 Axial†	124.2	81.0	108.75 ug/L	108.75 ppb	18:20:34
2	Sb 206.836†	61.7	26.6	8.9330 ug/L	8.9330 ppb	18:20:34
2	Se 196.026†	46.7	70.2	38.811 ug/L	38.811 ppb	18:20:34
2	Si 251.611†	3705.1	3286.8	100.28 ug/L	100.28 ppb	18:20:34
2	Sn 189.927†	64.0	62.6	11.397 ug/L	11.397 ppb	18:20:34
2	Ti 334.940†	2387.9	3393.2	5.1127 ug/L	5.1127 ppb	18:20:13
2	Tl 190.801†	23.0	67.9	22.048 ug/L	22.048 ppb	18:20:34
2	U 409.014†	-747.7	2049.0	52.288 ug/L	52.288 ppb	18:20:13
2	V 292.402†	-637.3	831.5	5.6407 ug/L	5.6407 ppb	18:20:13
2	Zn 213.857†	1874.0	945.8	8.5720 ug/L	8.5720 ppb	18:20:34
2	SiO2†	3803.0	3390.3	220.84 ug/L	220.84 ppb	18:21:14
3	Sc Radial	5516.6	5516.6	105 %		18:19:12
3	Y RADIAL	5802.3	5802.3	105.1 %		18:19:12
3	Al 396.153Radial†	156.7	256.8	206.96 ug/L	206.96 ppb	18:19:32
3	Ca 317.933Radial†	159.4	131.7	219.31 ug/L	219.31 ppb	18:19:32
3	Fe 238.204 Radial†	20.8	9.8	94.339 ug/L	94.339 ppb	18:19:32
3	K 766.490 Radial†	3612.5	792.9	142.98 ug/L	142.98 ppb	18:19:12
3	Mg 279.077 IEC†	11.3	9.5	362.26 ug/L	362.26 ppb	18:19:32
3	Na 589.592 Radial†	379.7	950.7	289.52 ug/L	289.52 ppb	18:19:12
3	Sr 421.552†	932.9	825.3	5.0814 ug/L	5.0814 ppb	18:19:12
3	Sc 361.383	997876.9	997876.9	100.59 %		18:20:39
3	Y 371.029	867296.1	867296.1	100.85 %		18:20:39
3	Ag 328.068†	1679.0	1294.6	5.5057 ug/L	5.5057 ppb	18:20:44
3	As 188.979†	37.1	73.4	30.224 ug/L	30.224 ppb	18:21:04
3	B 249.677†	1995.2	2324.6	53.342 ug/L	53.342 ppb	18:20:44
3	Ba 233.527†	639.0	651.6	5.2991 ug/L	5.2991 ppb	18:21:04
3	Be 313.107†	9764.8	14509.7	5.3059 ug/L	5.3059 ppb	18:20:44
3	Cd 226.502†	291.6	473.5	5.3196 ug/L	5.3196 ppb	18:21:04
3	Co 228.616†	175.4	243.4	5.1539 ug/L	5.1539 ppb	18:21:04
3	Cr 267.716†	547.4	474.9	5.0166 ug/L	5.0166 ppb	18:21:04
3	Cu 324.752†	12738.8	3693.5	10.408 ug/L	10.408 ppb	18:20:44
3	Mn 257.610†	10198.9	9568.6	10.748 ug/L	10.748 ppb	18:20:44
3	Mo 202.031†	148.1	136.7	9.3946 ug/L	9.3946 ppb	18:21:04
3	Ni 231.604†	319.2	236.9	5.7302 ug/L	5.7302 ppb	18:21:04
3	P 214.914†	520.2	268.5	146.40 ug/L	146.40 ppb	18:21:04
3	Pb 220.353†	52.5	97.3	11.754 ug/L	11.754 ppb	18:21:04
3	S 181.975 Axial†	117.2	73.8	99.032 ug/L	99.032 ppb	18:21:04
3	Sb 206.836†	57.6	22.4	7.5422 ug/L	7.5422 ppb	18:21:04
3	Se 196.026†	41.1	64.6	35.740 ug/L	35.740 ppb	18:21:04
3	Si 251.611†	3708.4	3282.8	100.17 ug/L	100.17 ppb	18:21:04
3	Sn 189.927†	56.2	54.7	9.9610 ug/L	9.9610 ppb	18:21:04
3	Ti 334.940†	2422.7	3423.1	5.1702 ug/L	5.1702 ppb	18:20:44
3	Tl 190.801†	23.0	67.9	22.041 ug/L	22.041 ppb	18:21:04
3	U 409.014†	-1034.8	1765.1	45.039 ug/L	45.039 ppb	18:20:44
3	V 292.402†	-669.4	800.7	5.4150 ug/L	5.4150 ppb	18:20:44
3	Zn 213.857†	1915.9	983.8	8.9208 ug/L	8.9208 ppb	18:21:04
3	SiO2†	3864.0	3443.5	224.33 ug/L	224.33 ppb	18:21:19

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	994115.4	100.21 %	0.496			0.50%
Sc Radial	5594.4	106 %	1.3			1.23%
Y 371.029	863270.6	100.39 %	0.537			0.54%
Y RADIAL	5881.3	106.5 %	1.26			1.18%
Ag 328.068†	1293.6	5.4990 ug/L	0.26222	5.4990 ppb	0.26222	4.77%
QC value within limits for Ag 328.068 Recovery = 109.98%						
Al 396.153Radial†	255.2	205.67 ug/L	3.680	205.67 ppb	3.680	1.79%
QC value within limits for Al 396.153Radial Recovery = 102.84%						
As 188.979†	73.1	30.114 ug/L	0.9504	30.114 ppb	0.9504	3.16%
QC value within limits for As 188.979 Recovery = 100.38%						
B 249.677†	2342.1	53.743 ug/L	0.3592	53.743 ppb	0.3592	0.67%
QC value within limits for B 249.677 Recovery = 107.49%						
Ba 233.527†	652.7	5.3076 ug/L	0.12109	5.3076 ppb	0.12109	2.28%
QC value within limits for Ba 233.527 Recovery = 106.15%						
Be 313.107†	14425.5	5.2752 ug/L	0.03502	5.2752 ppb	0.03502	0.66%
QC value within limits for Be 313.107 Recovery = 105.50%						
Ca 317.933Radial†	126.4	210.49 ug/L	8.667	210.49 ppb	8.667	4.12%

QC value within limits for Ca 317.933 Radial Recovery = 105.25%							
Cd 226.502†	480.3	5.3962 ug/L	0.15663	5.3962 ppb	0.15663	2.90%	
QC value within limits for Cd 226.502 Recovery = 107.92%							
Co 228.616†	243.7	5.1615 ug/L	0.05277	5.1615 ppb	0.05277	1.02%	
QC value within limits for Co 228.616 Recovery = 103.23%							
Cr 267.716†	469.8	4.9598 ug/L	0.09248	4.9598 ppb	0.09248	1.86%	
QC value within limits for Cr 267.716 Recovery = 99.20%							
Cu 324.752†	3757.2	10.585 ug/L	0.3277	10.585 ppb	0.3277	3.10%	
QC value within limits for Cu 324.752 Recovery = 105.85%							
Fe 238.204 Radial†	10.5	100.59 ug/L	10.038	100.59 ppb	10.038	9.98%	
QC value within limits for Fe 238.204 Radial Recovery = 100.59%							
K 766.490 Radial†	691.0	124.57 ug/L	19.014	124.57 ppb	19.014	15.26%	
QC value within limits for K 766.490 Radial Recovery = 83.05%							
Mg 279.077 IBC†	10.0	383.52 ug/L	65.205	383.52 ppb	65.205	17.00%	
QC value within limits for Mg 279.077 IEC Recovery = 127.84%							
Mn 257.610†	9568.3	10.748 ug/L	0.1416	10.748 ppb	0.1416	1.32%	
QC value within limits for Mn 257.610 Recovery = 107.48%							
Mo 202.031†	143.4	9.8602 ug/L	0.40363	9.8602 ppb	0.40363	4.09%	
QC value within limits for Mo 202.031 Recovery = 98.60%							
Na 589.592 Radial†	1025.1	312.20 ug/L	19.701	312.20 ppb	19.701	6.31%	
QC value within limits for Na 589.592 Radial Recovery = 104.07%							
Ni 231.604†	240.6	5.8217 ug/L	0.10508	5.8217 ppb	0.10508	1.80%	
QC value within limits for Ni 231.604 Recovery = 116.43%							
P 214.914†	267.1	145.59 ug/L	2.509	145.59 ppb	2.509	1.72%	
QC value within limits for P 214.914 Recovery = 97.06%							
Pb 220.353†	89.7	10.845 ug/L	1.0604	10.845 ppb	1.0604	9.78%	
QC value within limits for Pb 220.353 Recovery = 108.45%							
S 181.975 Axial†	76.9	103.27 ug/L	4.977	103.27 ppb	4.977	4.82%	
QC value within limits for S 181.975 Axial Recovery = 103.27%							
Sb 206.836†	26.5	8.8678 ug/L	1.29414	8.8678 ppb	1.29414	14.59%	
QC value within limits for Sb 206.836 Recovery = 88.68%							
Se 196.026†	68.5	37.891 ug/L	1.8695	37.891 ppb	1.8695	4.93%	
QC value within limits for Se 196.026 Recovery = 126.30%							
Si 251.611†	3290.2	100.38 ug/L	0.287	100.38 ppb	0.287	0.29%	
QC value within limits for Si 251.611 Recovery = 100.38%							
Sn 189.927†	58.6	10.667 ug/L	0.7185	10.667 ppb	0.7185	6.74%	
QC value within limits for Sn 189.927 Recovery = 106.67%							
Sr 421.552†	816.2	5.0259 ug/L	0.05746	5.0259 ppb	0.05746	1.14%	
QC value within limits for Sr 421.552 Recovery = 100.52%							
Ti 334.940†	3436.2	5.1850 ug/L	0.08073	5.1850 ppb	0.08073	1.56%	
QC value within limits for Ti 334.940 Recovery = 103.70%							
Tl 190.801†	67.2	21.825 ug/L	0.3803	21.825 ppb	0.3803	1.74%	
QC value within limits for Tl 190.801 Recovery = 109.12%							
U 409.014†	1962.3	50.074 ug/L	4.3706	50.074 ppb	4.3706	8.73%	
QC value within limits for U 409.014 Recovery = 100.15%							
V 292.402†	772.4	5.2466 ug/L	0.50009	5.2466 ppb	0.50009	9.53%	
QC value within limits for V 292.402 Recovery = 104.93%							
Zn 213.857†	967.7	8.7718 ug/L	0.17992	8.7718 ppb	0.17992	2.05%	
QC value within limits for Zn 213.857 Recovery = 87.72%							
SiO2†	3426.1	223.19 ug/L	2.031	223.19 ppb	2.031	0.91%	
QC value within limits for SiO2 Recovery = 104.78%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 1/29/2010 18:23:31

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	4994.8	4994.8	94.7 %		18:25:29
1	Y RADIAL	5230.5	5230.5	94.70 %		18:25:29
1	Al 396.153Radial†	598388.5	632024.0	510550 ug/L	510550 ppb	18:25:24
1	Ca 317.933Radial†	269267.3	284334.1	473320 ug/L	473320 ppb	18:25:24
1	Fe 238.204 Radial†	18348.0	19366.0	185700 ug/L	185700 ppb	18:25:29
1	K 766.490 Radial†	2519.6	-0.4	-158.41 ug/L	-158.41 ppb	18:25:29
1	Mg 279.077 IEC†	12057.2	12731.4	485900 ug/L	485900 ppb	18:25:29
1	Na 589.592 Radial†	-282.3	289.5	88.179 ug/L	88.179 ppb	18:25:29
1	Sr 421.552†	652.7	622.5	0.3000 ug/L	0.3000 ppb	18:25:29
1	Sc 361.383	838820.8	838820.8	84.560 %		18:25:56
1	Y 371.029	711040.1	711040.1	82.683 %		18:25:56
1	Ag 328.068†	-10106.3	-12326.1	1.4335 ug/L	1.4335 ppb	18:25:56
1	As 188.979†	-95.8	-76.8	11.752 ug/L	11.752 ppb	18:26:16
1	B 249.677†	746.1	1223.4	-2.0710 ug/L	-2.0710 ppb	18:25:56
1	Ba 233.527†	-616.0	-712.1	-0.0862 ug/L	-0.0862 ppb	18:26:16
1	Be 313.107†	-4976.2	-1082.4	-0.4564 ug/L	-0.4564 ppb	18:25:56
1	Cd 226.502†	1429.8	1874.4	1.8772 ug/L	1.8772 ppb	18:26:16
1	Co 228.616†	-9.6	57.7	-1.4545 ug/L	-1.4545 ppb	18:26:16
1	Cr 267.716†	-212.0	-320.0	0.2332 ug/L	0.2332 ppb	18:26:16
1	Cu 324.752†	6263.4	-1563.0	5.3944 ug/L	5.3944 ppb	18:25:56
1	Mn 257.610†	24.7	-541.0	-2.1426 ug/L	-2.1426 ppb	18:25:56
1	Mo 202.031†	-244.7	-300.0	-0.5538 ug/L	-0.5538 ppb	18:26:16
1	Ni 231.604†	181.6	134.3	3.2496 ug/L	3.2496 ppb	18:26:16
1	P 214.914†	211.1	1.0	-21.529 ug/L	-21.529 ppb	18:26:16
1	Pb 220.353†	-685.7	-765.8	8.1430 ug/L	8.1430 ppb	18:26:16
1	S 181.975 Axial†	85.8	58.7	-16.857 ug/L	-16.857 ppb	18:26:16
1	Sb 206.836†	74.6	53.3	6.5962 ug/L	6.5962 ppb	18:26:16
1	Se 196.026†	-933.5	-1080.2	54.638 ug/L	54.638 ppb	18:26:16
1	Si 251.611†	403.8	73.8	2.5091 ug/L	2.5091 ppb	18:26:16
1	Sn 189.927†	-346.3	-410.7	0.5574 ug/L	0.5574 ppb	18:26:16
1	Ti 334.940†	-15956.0	-17854.8	-3.3170 ug/L	-3.3170 ppb	18:25:56
1	Tl 190.801†	-92.0	-63.8	-20.900 ug/L	-20.900 ppb	18:26:16
1	U 409.014†	-1064.6	1534.8	18.020 ug/L	18.020 ppb	18:25:56
1	V 292.402†	1082.9	2746.8	0.0295 ug/L	0.0295 ppb	18:26:16
1	Zn 213.857†	3287.2	2966.7	9.0524 ug/L	9.0524 ppb	18:26:16
1	SiO2†	397.9	72.9	5.3143 ug/L	5.3143 ppb	18:27:13
2	Sc Radial	5000.7	5000.7	94.8 %		18:25:39
2	Y RADIAL	5248.9	5248.9	95.04 %		18:25:39
2	Al 396.153Radial†	598492.8	631382.7	510040 ug/L	510040 ppb	18:25:34
2	Ca 317.933Radial†	269266.0	283994.6	472750 ug/L	472750 ppb	18:25:34
2	Fe 238.204 Radial†	18406.7	19404.8	186070 ug/L	186070 ppb	18:25:39
2	K 766.490 Radial†	2463.2	-63.1	-169.54 ug/L	-169.54 ppb	18:25:39
2	Mg 279.077 IEC†	12107.5	12769.4	487350 ug/L	487350 ppb	18:25:39
2	Na 589.592 Radial†	-295.3	276.1	84.098 ug/L	84.098 ppb	18:25:39
2	Sr 421.552†	642.1	610.6	0.2308 ug/L	0.2308 ppb	18:25:39
2	Sc 361.383	842642.2	842642.2	84.945 %		18:26:22
2	Y 371.029	713407.4	713407.4	82.958 %		18:26:22
2	Ag 328.068†	-10282.5	-12479.4	0.9103 ug/L	0.9103 ppb	18:26:22
2	As 188.979†	-103.6	-85.4	8.2815 ug/L	8.2815 ppb	18:26:42
2	B 249.677†	691.7	1155.4	-3.6912 ug/L	-3.6912 ppb	18:26:22
2	Ba 233.527†	-626.6	-721.2	-0.1489 ug/L	-0.1489 ppb	18:26:42
2	Be 313.107†	-4998.8	-1082.3	-0.4564 ug/L	-0.4564 ppb	18:26:22
2	Cd 226.502†	1399.3	1830.8	1.3503 ug/L	1.3503 ppb	18:26:42
2	Co 228.616†	-28.4	35.6	-1.9334 ug/L	-1.9334 ppb	18:26:42
2	Cr 267.716†	-191.6	-294.8	0.5061 ug/L	0.5061 ppb	18:26:42
2	Cu 324.752†	6284.2	-1572.1	5.3875 ug/L	5.3875 ppb	18:26:22
2	Mn 257.610†	168.9	-371.3	-1.9744 ug/L	-1.9744 ppb	18:26:22
2	Mo 202.031†	-277.6	-337.4	-3.1039 ug/L	-3.1039 ppb	18:26:42
2	Ni 231.604†	182.4	134.2	3.2489 ug/L	3.2489 ppb	18:26:42

2	P 214.914†	191.6	-23.1	-35.287 ug/L	-35.287 ppb	18:26:42
2	Pb 220.353†	-699.0	-777.8	6.5424 ug/L	6.5424 ppb	18:26:42
2	S 181.975 Axial†	67.8	37.1	-45.732 ug/L	-45.732 ppb	18:26:42
2	Sb 206.836†	75.7	54.3	6.8215 ug/L	6.8215 ppb	18:26:42
2	Se 196.026†	-948.5	-1092.8	48.909 ug/L	48.909 ppb	18:26:42
2	Si 251.611†	429.2	101.6	3.3897 ug/L	3.3897 ppb	18:26:42
2	Sn 189.927†	-359.1	-423.8	-1.9082 ug/L	-1.9082 ppb	18:26:42
2	Ti 334.940†	-16042.8	-17871.4	-3.5373 ug/L	-3.5373 ppb	18:26:22
2	Tl 190.801†	-79.5	-48.6	-15.995 ug/L	-15.995 ppb	18:26:42
2	U 409.014†	-1009.9	1604.9	19.767 ug/L	19.767 ppb	18:26:22
2	V 292.402†	1100.1	2761.3	0.0644 ug/L	0.0644 ppb	18:26:42
2	Zn 213.857†	3277.1	2937.1	8.7462 ug/L	8.7462 ppb	18:26:42
2	SiO2†	341.2	4.0	0.8944 ug/L	0.8944 ppb	18:27:18
3	Sc Radial	4999.0	4999.0	94.8 %		18:25:49
3	Y RADIAL	5243.7	5243.7	94.94 %		18:25:49
3	Al 396.153Radial†	594353.3	627233.3	506680 ug/L	506680 ppb	18:25:44
3	Ca 317.933Radial†	267220.4	281934.5	469320 ug/L	469320 ppb	18:25:44
3	Fe 238.204 Radial†	18461.6	19469.5	186690 ug/L	186690 ppb	18:25:49
3	K 766.490 Radial†	2428.1	-99.2	-174.92 ug/L	-174.92 ppb	18:25:49
3	Mg 279.077 IEC†	12167.3	12836.9	489930 ug/L	489930 ppb	18:25:49
3	Na 589.592 Radial†	-301.8	269.2	81.973 ug/L	81.973 ppb	18:25:49
3	Sr 421.552†	613.7	580.8	0.0727 ug/L	0.0727 ppb	18:25:49
3	Sc 361.383	835972.1	835972.1	84.273 %		18:26:47
3	Y 371.029	707018.3	707018.3	82.215 %		18:26:47
3	Ag 328.068†	-10188.3	-12464.2	1.2221 ug/L	1.2221 ppb	18:26:47
3	As 188.979†	-97.2	-78.8	11.146 ug/L	11.146 ppb	18:27:07
3	B 249.677†	701.8	1173.8	-3.3707 ug/L	-3.3707 ppb	18:26:47
3	Ba 233.527†	-601.4	-697.3	0.0635 ug/L	0.0635 ppb	18:27:07
3	Be 313.107†	-5082.6	-1228.7	-0.5099 ug/L	-0.5099 ppb	18:26:47
3	Cd 226.502†	1411.9	1859.0	1.6014 ug/L	1.6014 ppb	18:27:07
3	Co 228.616†	4.5	74.4	-1.1207 ug/L	-1.1207 ppb	18:27:07
3	Cr 267.716†	-179.8	-282.6	0.6474 ug/L	0.6474 ppb	18:27:07
3	Cu 324.752†	6187.5	-1627.9	5.2638 ug/L	5.2638 ppb	18:26:47
3	Mn 257.610†	72.4	-484.3	-2.1456 ug/L	-2.1456 ppb	18:26:47
3	Mo 202.031†	-270.5	-331.5	-2.6910 ug/L	-2.6910 ppb	18:27:07
3	Ni 231.604†	177.5	130.1	3.1489 ug/L	3.1489 ppb	18:27:07
3	P 214.914†	206.0	-4.2	-26.151 ug/L	-26.151 ppb	18:27:07
3	Pb 220.353†	-672.1	-752.4	8.7576 ug/L	8.7576 ppb	18:27:07
3	S 181.975 Axial†	76.7	48.2	-30.164 ug/L	-30.164 ppb	18:27:07
3	Sb 206.836†	53.8	29.0	-1.1222 ug/L	-1.1222 ppb	18:27:07
3	Se 196.026†	-938.0	-1089.4	52.638 ug/L	52.638 ppb	18:27:07
3	Si 251.611†	405.0	76.9	2.6298 ug/L	2.6298 ppb	18:27:07
3	Sn 189.927†	-341.5	-406.3	0.7547 ug/L	0.7547 ppb	18:27:07
3	Ti 334.940†	-15927.6	-17885.4	-4.2282 ug/L	-4.2282 ppb	18:26:47
3	Tl 190.801†	-104.9	-79.4	-25.968 ug/L	-25.968 ppb	18:27:07
3	U 409.014†	-1064.4	1530.8	17.804 ug/L	17.804 ppb	18:26:47
3	V 292.402†	1040.4	2700.8	-0.3675 ug/L	-0.3675 ppb	18:27:07
3	Zn 213.857†	3248.1	2933.5	8.6540 ug/L	8.6540 ppb	18:27:07
3	SiO2†	391.9	67.3	5.0107 ug/L	5.0107 ppb	18:27:23

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	839145.0	84.592 %		0.3374			0.40%
Sc Radial	4998.2	94.8 %		0.06			0.06%
Y 371.029	710488.6	82.619 %		0.3756			0.45%
Y RADIAL	5241.0	94.89 %		0.172			0.18%
Ag 328.068†	-12423.3	1.1886 ug/L		0.26317	1.1886 ppb	0.26317	22.14%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	630213.3	509090 ug/L		2100.8	509090 ppb	2100.8	0.41%
QC value within limits for Al 396.153Radial Recovery = 101.82%							
As 188.979†	-80.4	10.393 ug/L		1.8537	10.393 ppb	1.8537	17.84%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	1184.2	-3.0443 ug/L		0.85801	-3.0443 ppb	0.85801	28.18%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-710.2	-0.0572 ug/L		0.10910	-0.0572 ppb	0.10910	190.71%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-1131.1	-0.4742 ug/L		0.03086	-0.4742 ppb	0.03086	6.51%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	283421.1	471800 ug/L		2161.6	471800 ppb	2161.6	0.46%

QC value within limits for Ca 317.933 Radial Recovery = 94.36%							
Cd	226.502†	1854.7	1.6096 ug/L	0.26356	1.6096 ppb	0.26356	16.37%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	55.9	-1.5028 ug/L	0.40850	-1.5028 ppb	0.40850	27.18%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-299.1	0.4622 ug/L	0.21053	0.4622 ppb	0.21053	45.55%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-1587.7	5.3485 ug/L	0.07350	5.3485 ppb	0.07350	1.37%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	19413.4	186150 ug/L	501.4	186150 ppb	501.4	0.27%
QC value within limits for Fe 238.204 Radial Recovery = 93.08%							
K	766.490 Radial†	-54.2	-167.62 ug/L	8.420	-167.62 ppb	8.420	5.02%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	12779.2	487730 ug/L	2039.3	487730 ppb	2039.3	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 97.55%							
Mn	257.610†	-465.5	-2.0875 ug/L	0.09795	-2.0875 ppb	0.09795	4.69%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-323.0	-2.1162 ug/L	1.36874	-2.1162 ppb	1.36874	64.68%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	278.3	84.750 ug/L	3.1542	84.750 ppb	3.1542	3.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	132.9	3.2158 ug/L	0.05795	3.2158 ppb	0.05795	1.80%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-8.8	-27.656 ug/L	7.0010	-27.656 ppb	7.0010	25.31%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-765.3	7.8143 ug/L	1.14359	7.8143 ppb	1.14359	14.63%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	48.0	-30.918 ug/L	14.4524	-30.918 ppb	14.4524	46.74%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	45.5	4.0985 ug/L	4.52267	4.0985 ppb	4.52267	110.35%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-1087.5	52.062 ug/L	2.9077	52.062 ppb	2.9077	5.59%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	84.1	2.8428 ug/L	0.47739	2.8428 ppb	0.47739	16.79%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-413.6	-0.1987 ug/L	1.48374	-0.1987 ppb	1.48374	746.70%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	604.6	0.2012 ug/L	0.11653	0.2012 ppb	0.11653	57.93%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-17870.5	-3.6942 ug/L	0.47539	-3.6942 ppb	0.47539	12.87%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-63.9	-20.954 ug/L	4.9864	-20.954 ppb	4.9864	23.80%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	1556.8	18.530 ug/L	1.0765	18.530 ppb	1.0765	5.81%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	2736.3	-0.0912 ug/L	0.23991	-0.0912 ppb	0.23991	263.09%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	2945.7	8.8175 ug/L	0.20855	8.8175 ppb	0.20855	2.37%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		48.1	3.7398 ug/L	2.46889	3.7398 ppb	2.46889	66.02%
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: 1/29/2010 18:29:34
 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	4847.1	4847.1	91.9 %		18:31:32
1	Y RADIAL	5106.3	5106.3	92.45 %		18:31:32
1	Al 396.153Radial†	606454.0	660048.4	533170 ug/L	533170 ppb	18:31:27
1	Ca 317.933Radial†	271884.2	295842.9	492470 ug/L	492470 ppb	18:31:27
1	Fe 238.204 Radial†	18401.3	20014.2	191920 ug/L	191920 ppb	18:31:32
1	K 766.490 Radial†	31283.4	31381.3	5499.0 ug/L	5499.0 ppb	18:31:27
1	Mg 279.077 IEC†	12130.4	13198.9	503750 ug/L	503750 ppb	18:31:32
1	Na 589.592 Radial†	16887.5	18964.5	5775.6 ug/L	5775.6 ppb	18:31:32
1	Sr 421.552†	78878.1	85768.2	524.60 ug/L	524.60 ppb	18:31:27
1	Sc 361.383	851376.2	851376.2	85.825 %		18:32:00
1	Y 371.029	719699.0	719699.0	83.690 %		18:32:00
1	Ag 328.068†	44536.5	51517.4	275.75 ug/L	275.75 ppb	18:32:00
1	As 188.979†	945.2	1137.8	515.76 ug/L	515.76 ppb	18:32:20
1	B 249.677†	20206.1	23884.3	515.92 ug/L	515.92 ppb	18:32:00
1	Ba 233.527†	52211.9	60851.4	500.51 ug/L	500.51 ppb	18:32:00
1	Be 313.107†	573653.4	673197.9	246.74 ug/L	246.74 ppb	18:32:00
1	Cd 226.502†	36178.6	42337.2	455.99 ug/L	455.99 ppb	18:32:20
1	Co 228.616†	18382.3	21487.3	451.48 ug/L	451.48 ppb	18:32:20
1	Cr 267.716†	38660.8	44976.6	480.15 ug/L	480.15 ppb	18:32:00
1	Cu 324.752†	179777.7	200498.9	575.94 ug/L	575.94 ppb	18:32:00
1	Mn 257.610†	375769.2	437259.4	489.77 ug/L	489.77 ppb	18:32:00
1	Mo 202.031†	5859.3	6816.5	488.86 ug/L	488.86 ppb	18:32:20
1	Ni 231.604†	15856.0	18394.3	444.95 ug/L	444.95 ppb	18:32:20
1	P 214.914†	4196.8	4641.2	2435.1 ug/L	2435.1 ppb	18:32:20
1	Pb 220.353†	2646.8	3129.1	481.91 ug/L	481.91 ppb	18:32:20
1	S 181.975 Axial†	1780.6	2031.9	2628.9 ug/L	2628.9 ppb	18:32:20
1	Sb 206.836†	1536.8	1755.7	570.47 ug/L	570.47 ppb	18:32:20
1	Se 196.026†	3083.7	3616.7	2651.3 ug/L	2651.3 ppb	18:32:20
1	Si 251.611†	150162.7	174559.3	5326.6 ug/L	5326.6 ppb	18:32:00
1	Sn 189.927†	1956.2	2278.1	491.30 ug/L	491.30 ppb	18:32:20
1	Ti 334.940†	275164.0	321623.5	512.32 ug/L	512.32 ppb	18:32:00
1	Tl 190.801†	1200.7	1444.1	470.75 ug/L	470.75 ppb	18:32:20
1	U 409.014†	14883.0	20134.8	491.08 ug/L	491.08 ppb	18:32:00
1	V 292.402†	66840.4	79345.6	504.97 ug/L	504.97 ppb	18:32:00
1	Zn 213.857†	50325.9	57716.7	504.63 ug/L	504.63 ppb	18:32:00
1	SiO2†	150604.7	175080.2	11406 ug/L	11406 ppb	18:33:18
2	Sc Radial	4950.8	4950.8	93.9 %		18:31:43
2	Y RADIAL	5186.5	5186.5	93.91 %		18:31:43
2	Al 396.153Radial†	601157.1	640589.8	517450 ug/L	517450 ppb	18:31:38
2	Ca 317.933Radial†	269627.8	287245.3	478160 ug/L	478160 ppb	18:31:38
2	Fe 238.204 Radial†	18189.8	19369.6	185740 ug/L	185740 ppb	18:31:43
2	K 766.490 Radial†	30996.2	30362.7	5319.9 ug/L	5319.9 ppb	18:31:38
2	Mg 279.077 IEC†	11992.8	12776.0	487610 ug/L	487610 ppb	18:31:43
2	Na 589.592 Radial†	16763.2	18447.4	5618.1 ug/L	5618.1 ppb	18:31:43
2	Sr 421.552†	78093.6	83135.6	508.49 ug/L	508.49 ppb	18:31:38
2	Sc 361.383	852495.4	852495.4	85.938 %		18:32:26
2	Y 371.029	721428.5	721428.5	83.891 %		18:32:26
2	Ag 328.068†	44726.1	51669.9	274.59 ug/L	274.59 ppb	18:32:26
2	As 188.979†	956.6	1149.6	519.18 ug/L	519.18 ppb	18:32:46
2	B 249.677†	20320.0	23986.0	519.25 ug/L	519.25 ppb	18:32:26
2	Ba 233.527†	52299.2	60873.0	500.50 ug/L	500.50 ppb	18:32:26
2	Be 313.107†	575816.5	674837.5	247.33 ug/L	247.33 ppb	18:32:26
2	Cd 226.502†	36259.0	42375.5	457.06 ug/L	457.06 ppb	18:32:46
2	Co 228.616†	18453.8	21542.4	452.73 ug/L	452.73 ppb	18:32:46
2	Cr 267.716†	38903.4	45199.8	482.39 ug/L	482.39 ppb	18:32:26
2	Cu 324.752†	180557.9	201131.7	577.40 ug/L	577.40 ppb	18:32:26
2	Mn 257.610†	376450.7	437477.7	490.06 ug/L	490.06 ppb	18:32:26
2	Mo 202.031†	5876.9	6827.9	489.00 ug/L	489.00 ppb	18:32:46
2	Ni 231.604†	15934.0	18460.8	446.56 ug/L	446.56 ppb	18:32:46

2	P 214.914†	4174.3	4608.7	2417.9 ug/L	2417.9 ppb	18:32:46
2	Pb 220.353†	2643.4	3121.1	477.91 ug/L	477.91 ppb	18:32:46
2	S 181.975 Axial†	1768.3	2014.9	2609.1 ug/L	2609.1 ppb	18:32:46
2	Sb 206.836†	1551.4	1770.4	575.54 ug/L	575.54 ppb	18:32:46
2	Se 196.026†	3087.7	3616.7	2629.9 ug/L	2629.9 ppb	18:32:46
2	Si 251.611†	150507.1	174730.3	5331.8 ug/L	5331.8 ppb	18:32:26
2	Sn 189.927†	1985.5	2309.2	494.66 ug/L	494.66 ppb	18:32:46
2	Ti 334.940†	275637.2	321753.3	511.91 ug/L	511.91 ppb	18:32:26
2	Tl 190.801†	1197.2	1438.1	468.82 ug/L	468.82 ppb	18:32:46
2	U 409.014†	15082.1	20343.7	497.11 ug/L	497.11 ppb	18:32:26
2	V 292.402†	67056.7	79495.1	506.55 ug/L	506.55 ppb	18:32:26
2	Zn 213.857†	50468.9	57806.1	506.04 ug/L	506.04 ppb	18:32:26
2	SiO2†	152141.2	176637.8	11508 ug/L	11508 ppb	18:33:23
3	Sc Radial	5034.1	5034.1	95.4 %		18:31:53
3	Y RADIAL	5251.3	5251.3	95.08 %		18:31:53
3	Al 396.153Radial†	605828.5	634882.0	512840 ug/L	512840 ppb	18:31:48
3	Ca 317.933Radial†	270434.9	283335.7	471650 ug/L	471650 ppb	18:31:48
3	Fe 238.204 Radial†	18312.0	19176.9	183900 ug/L	183900 ppb	18:31:53
3	K 766.490 Radial†	31302.2	30136.7	5281.2 ug/L	5281.2 ppb	18:31:48
3	Mg 279.077 IEC†	12059.2	12634.0	482190 ug/L	482190 ppb	18:31:53
3	Na 589.592 Radial†	16974.3	18373.0	5595.4 ug/L	5595.4 ppb	18:31:53
3	Sr 421.552†	78995.5	82703.2	505.87 ug/L	505.87 ppb	18:31:48
3	Sc 361.383	852782.2	852782.2	85.967 %		18:32:52
3	Y 371.029	721374.0	721374.0	83.885 %		18:32:52
3	Ag 328.068†	44710.0	51633.7	273.92 ug/L	273.92 ppb	18:32:52
3	As 188.979†	965.6	1159.7	522.88 ug/L	522.88 ppb	18:33:12
3	B 249.677†	20367.4	24033.2	520.64 ug/L	520.64 ppb	18:32:52
3	Ba 233.527†	52331.3	60890.0	500.58 ug/L	500.58 ppb	18:32:52
3	Be 313.107†	575514.5	674260.8	247.12 ug/L	247.12 ppb	18:32:52
3	Cd 226.502†	36190.6	42281.7	456.20 ug/L	456.20 ppb	18:33:12
3	Co 228.616†	18391.0	21462.2	451.06 ug/L	451.06 ppb	18:33:12
3	Cr 267.716†	38824.8	45093.1	481.23 ug/L	481.23 ppb	18:32:52
3	Cu 324.752†	180548.0	201049.6	577.07 ug/L	577.07 ppb	18:32:52
3	Mn 257.610†	376671.5	437587.2	490.23 ug/L	490.23 ppb	18:32:52
3	Mo 202.031†	5892.5	6843.7	489.86 ug/L	489.86 ppb	18:33:12
3	Ni 231.604†	15909.1	18425.6	445.71 ug/L	445.71 ppb	18:33:12
3	P 214.914†	4167.5	4599.1	2412.9 ug/L	2412.9 ppb	18:33:12
3	Pb 220.353†	2627.9	3102.0	474.69 ug/L	474.69 ppb	18:33:12
3	S 181.975 Axial†	1783.4	2031.7	2632.5 ug/L	2632.5 ppb	18:33:12
3	Sb 206.836†	1530.7	1745.7	567.70 ug/L	567.70 ppb	18:33:12
3	Se 196.026†	3096.2	3625.3	2628.2 ug/L	2628.2 ppb	18:33:12
3	Si 251.611†	150684.4	174877.6	5336.3 ug/L	5336.3 ppb	18:32:52
3	Sn 189.927†	1985.4	2308.3	493.48 ug/L	493.48 ppb	18:33:12
3	Ti 334.940†	275582.6	321581.9	511.22 ug/L	511.22 ppb	18:32:52
3	Tl 190.801†	1202.0	1443.3	470.50 ug/L	470.50 ppb	18:33:12
3	U 409.014†	15078.8	20334.0	497.07 ug/L	497.07 ppb	18:32:52
3	V 292.402†	66962.2	79359.0	505.85 ug/L	505.85 ppb	18:32:52
3	Zn 213.857†	50685.9	58038.8	508.35 ug/L	508.35 ppb	18:32:52
3	SiO2†	151036.3	175292.9	11420 ug/L	11420 ppb	18:33:28

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852217.9	85.910 %	0.0749			0.09%
Sc Radial	4944.0	93.7 %	1.78			1.89%
Y 371.029	720833.8	83.822 %	0.1143			0.14%
Y RADIAL	5181.4	93.81 %	1.315			1.40%
Ag 328.068†	51607.0	274.76 ug/L	0.925	274.76 ppb	0.925	0.34%
QC value within limits for Ag 328.068 Recovery = 109.90%						
Al 396.153Radial†	645173.4	521150 ug/L	10658.6	521150 ppb	10658.6	2.05%
QC value within limits for Al 396.153Radial Recovery = 104.23%						
As 188.979†	1149.0	519.28 ug/L	3.560	519.28 ppb	3.560	0.69%
QC value within limits for As 188.979 Recovery = 103.86%						
B 249.677†	23967.8	518.61 ug/L	2.427	518.61 ppb	2.427	0.47%
QC value within limits for B 249.677 Recovery = 103.72%						
Ba 233.527†	60871.5	500.53 ug/L	0.043	500.53 ppb	0.043	0.01%
QC value within limits for Ba 233.527 Recovery = 100.11%						
Be 313.107†	674098.7	247.06 ug/L	0.304	247.06 ppb	0.304	0.12%
QC value within limits for Be 313.107 Recovery = 98.83%						
Ca 317.933Radial†	288808.0	480760 ug/L	10651.1	480760 ppb	10651.1	2.22%

QC value within limits for Ca 317.933 Radial Recovery = 96.15%							
Cd 226.502†	42331.5	456.42 ug/L	0.568	456.42 ppb	0.568	0.12%	
QC value within limits for Cd 226.502 Recovery = 91.28%							
Co 228.616†	21497.3	451.76 ug/L	0.867	451.76 ppb	0.867	0.19%	
QC value within limits for Co 228.616 Recovery = 90.35%							
Cr 267.716†	45089.8	481.26 ug/L	1.120	481.26 ppb	1.120	0.23%	
QC value within limits for Cr 267.716 Recovery = 96.25%							
Cu 324.752†	200893.4	576.80 ug/L	0.764	576.80 ppb	0.764	0.13%	
QC value within limits for Cu 324.752 Recovery = 115.36%							
Fe 238.204 Radial†	19520.2	187190 ug/L	4204.7	187190 ppb	4204.7	2.25%	
QC value within limits for Fe 238.204 Radial Recovery = 93.59%							
K 766.490 Radial†	30626.9	5366.7 ug/L	116.17	5366.7 ppb	116.17	2.16%	
QC value within limits for K 766.490 Radial Recovery = 107.33%							
Mg 279.077 IEC†	12869.7	491190 ug/L	11215.4	491190 ppb	11215.4	2.28%	
QC value within limits for Mg 279.077 IEC Recovery = 98.24%							
Mn 257.610†	437441.4	490.02 ug/L	0.232	490.02 ppb	0.232	0.05%	
QC value within limits for Mn 257.610 Recovery = 98.00%							
Mo 202.031†	6829.4	489.24 ug/L	0.544	489.24 ppb	0.544	0.11%	
QC value within limits for Mo 202.031 Recovery = 97.85%							
Na 589.592 Radial†	18595.0	5663.0 ug/L	98.12	5663.0 ppb	98.12	1.73%	
QC value within limits for Na 589.592 Radial Recovery = 113.26%							
Ni 231.604†	18426.9	445.74 ug/L	0.805	445.74 ppb	0.805	0.18%	
QC value within limits for Ni 231.604 Recovery = 89.15%							
P 214.914†	4616.3	2422.0 ug/L	11.63	2422.0 ppb	11.63	0.48%	
QC value within limits for P 214.914 Recovery = 96.88%							
Pb 220.353†	3117.4	478.17 ug/L	3.620	478.17 ppb	3.620	0.76%	
QC value within limits for Pb 220.353 Recovery = 95.63%							
S 181.975 Axial†	2026.2	2623.5 ug/L	12.61	2623.5 ppb	12.61	0.48%	
QC value within limits for S 181.975 Axial Recovery = 104.94%							
Sb 206.836†	1757.3	571.24 ug/L	3.974	571.24 ppb	3.974	0.70%	
QC value within limits for Sb 206.836 Recovery = 114.25%							
Se 196.026†	3619.5	2636.4 ug/L	12.88	2636.4 ppb	12.88	0.49%	
QC value within limits for Se 196.026 Recovery = 105.46%							
Si 251.611†	174722.4	5331.5 ug/L	4.86	5331.5 ppb	4.86	0.09%	
QC value within limits for Si 251.611 Recovery = 106.63%							
Sn 189.927†	2298.6	493.15 ug/L	1.707	493.15 ppb	1.707	0.35%	
QC value within limits for Sn 189.927 Recovery = 98.63%							
Sr 421.552†	83869.0	512.99 ug/L	10.139	512.99 ppb	10.139	1.98%	
QC value within limits for Sr 421.552 Recovery = 102.60%							
Ti 334.940†	321652.9	511.82 ug/L	0.554	511.82 ppb	0.554	0.11%	
QC value within limits for Ti 334.940 Recovery = 102.36%							
Tl 190.801†	1441.8	470.02 ug/L	1.049	470.02 ppb	1.049	0.22%	
QC value within limits for Tl 190.801 Recovery = 94.00%							
U 409.014†	20270.8	495.09 ug/L	3.473	495.09 ppb	3.473	0.70%	
QC value within limits for U 409.014 Recovery = 99.02%							
V 292.402†	79399.9	505.79 ug/L	0.792	505.79 ppb	0.792	0.16%	
QC value within limits for V 292.402 Recovery = 101.16%							
Zn 213.857†	57853.9	506.34 ug/L	1.875	506.34 ppb	1.875	0.37%	
QC value within limits for Zn 213.857 Recovery = 101.27%							
SiO2†	175670.3	11445 ug/L	55.1	11445 ppb	55.1	0.48%	
QC value within limits for SiO2 Recovery = 107.01%							
All analyte(s) passed QC.							

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 1/29/2010 18:35:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4939.9	4939.9	93.7 %		18:37:36
1	Y RADIAL	5192.3	5192.3	94.01 %		18:37:36
1	Al 396.153Radial†	590182.0	630277.1	509140 ug/L	509140 ppb	18:37:31
1	Ca 317.933Radial†	264740.1	282657.1	470520 ug/L	470520 ppb	18:37:31
1	Fe 238.204 Radial†	42877.3	45772.4	438900 ug/L	438900 ppb	18:37:36
1	K 766.490 Radial†	2596.5	111.3	-338.38 ug/L	-338.38 ppb	18:37:36
1	Mg 279.077 IEC†	11984.2	12794.8	488060 ug/L	488060 ppb	18:37:36
1	Na 589.592 Radial†	1585105.8	1693093.3	515620 ug/L	515620 ppb	18:37:31
1	Sr 421.552†	900.2	894.5	1.9960 ug/L	1.9960 ppb	18:37:36
1	Sc 361.383	838773.9	838773.9	84.555 %		18:38:04
1	Y 371.029	711365.4	711365.4	82.721 %		18:38:04
1	Ag 328.068†	-24406.5	-29239.2	0.3733 ug/L	0.3733 ppb	18:38:04
1	As 188.979†	-192.9	-191.7	23.951 ug/L	23.951 ppb	18:38:24
1	B 249.677†	1860.5	2541.4	-12.943 ug/L	-12.943 ppb	18:38:04
1	Ba 233.527†	-1684.4	-1975.6	-2.6011 ug/L	-2.6011 ppb	18:38:24
1	Be 313.107†	-11682.0	-9013.4	-3.3331 ug/L	-3.3331 ppb	18:38:04
1	Cd 226.502†	3699.7	4559.0	8.5855 ug/L	8.5855 ppb	18:38:24
1	Co 228.616†	194.7	299.4	-0.0755 ug/L	-0.0755 ppb	18:38:24
1	Cr 267.716†	-54.1	-133.3	1.6231 ug/L	1.6231 ppb	18:38:24
1	Cu 324.752†	3149.8	-5244.9	0.6862 ug/L	0.6862 ppb	18:38:04
1	Mn 257.610†	-24800.2	-29900.4	-10.230 ug/L	-10.230 ppb	18:38:04
1	Mo 202.031†	-506.8	-609.9	-2.2169 ug/L	-2.2169 ppb	18:38:24
1	Ni 231.604†	253.5	219.3	5.3054 ug/L	5.3054 ppb	18:38:24
1	P 214.914†	590.3	449.5	24.083 ug/L	24.083 ppb	18:38:24
1	Pb 220.353†	-464.4	-504.1	15.015 ug/L	15.015 ppb	18:38:24
1	S 181.975 Axial†	111.3	88.9	23.948 ug/L	23.948 ppb	18:38:24
1	Sb 206.836†	75.0	53.9	12.673 ug/L	12.673 ppb	18:38:24
1	Se 196.026†	-2325.7	-2726.8	-10.282 ug/L	-10.282 ppb	18:38:24
1	Si 251.611†	-497.6	-992.1	-29.790 ug/L	-29.790 ppb	18:38:24
1	Sn 189.927†	-368.9	-437.4	-0.4500 ug/L	-0.4500 ppb	18:38:24
1	Ti 334.940†	-11752.0	-12883.9	-2.4705 ug/L	-2.4705 ppb	18:38:04
1	Tl 190.801†	-111.4	-86.7	-28.471 ug/L	-28.471 ppb	18:38:24
1	U 409.014†	460528.9	547443.7	13926 ug/L	13926 ppb	18:38:04
1	V 292.402†	2811.3	4791.0	2.8624 ug/L	2.8624 ppb	18:38:24
1	Zn 213.857†	6291.0	6519.3	16.921 ug/L	16.921 ppb	18:38:24
1	SiO2†	-434.9	-912.0	-58.343 ug/L	-58.343 ppb	18:39:21
2	Sc Radial	4882.2	4882.2	92.6 %		18:37:46
2	Y RADIAL	5157.0	5157.0	93.37 %		18:37:46
2	Al 396.153Radial†	588536.4	635956.3	513730 ug/L	513730 ppb	18:37:41
2	Ca 317.933Radial†	263913.8	285109.3	474610 ug/L	474610 ppb	18:37:41
2	Fe 238.204 Radial†	42542.6	45952.6	440630 ug/L	440630 ppb	18:37:46
2	K 766.490 Radial†	2566.4	111.5	-341.37 ug/L	-341.37 ppb	18:37:46
2	Mg 279.077 IEC†	11961.0	12921.2	492880 ug/L	492880 ppb	18:37:46
2	Na 589.592 Radial†	1579592.1	1707164.4	519910 ug/L	519910 ppb	18:37:41
2	Sr 421.552†	868.4	871.5	1.8237 ug/L	1.8237 ppb	18:37:46
2	Sc 361.383	834873.4	834873.4	84.162 %		18:38:30
2	Y 371.029	707021.5	707021.5	82.216 %		18:38:30
2	Ag 328.068†	-24316.1	-29266.5	0.7943 ug/L	0.7943 ppb	18:38:30
2	As 188.979†	-197.1	-197.7	21.867 ug/L	21.867 ppb	18:38:50
2	B 249.677†	1979.9	2693.6	-9.7286 ug/L	-9.7286 ppb	18:38:30
2	Ba 233.527†	-1663.1	-1959.7	-2.4181 ug/L	-2.4181 ppb	18:38:50
2	Be 313.107†	-11681.3	-9077.1	-3.3562 ug/L	-3.3562 ppb	18:38:30
2	Cd 226.502†	3649.5	4519.9	7.9605 ug/L	7.9605 ppb	18:38:50
2	Co 228.616†	190.6	295.5	-0.1860 ug/L	-0.1860 ppb	18:38:50
2	Cr 267.716†	-48.0	-126.3	1.7468 ug/L	1.7468 ppb	18:38:50
2	Cu 324.752†	3111.8	-5272.7	0.7200 ug/L	0.7200 ppb	18:38:30
2	Mn 257.610†	-24230.8	-29360.9	-9.6497 ug/L	-9.6497 ppb	18:38:30
2	Mo 202.031†	-524.0	-633.2	-3.6316 ug/L	-3.6316 ppb	18:38:50
2	Ni 231.604†	263.9	233.1	5.6387 ug/L	5.6387 ppb	18:38:50

2	P 214.914†	596.0	459.5	29.326 ug/L	29.326 ppb	18:38:50
2	Pb 220.353†	-454.7	-495.1	16.986 ug/L	16.986 ppb	18:38:50
2	S 181.975 Axial†	78.0	49.9	-29.246 ug/L	-29.246 ppb	18:38:50
2	Sb 206.836†	77.7	57.4	13.624 ug/L	13.624 ppb	18:38:50
2	Se 196.026†	-2315.8	-2727.9	-4.8585 ug/L	-4.8585 ppb	18:38:50
2	Si 251.611†	-458.9	-948.9	-28.452 ug/L	-28.452 ppb	18:38:50
2	Sn 189.927†	-391.8	-466.6	-5.0996 ug/L	-5.0996 ppb	18:38:50
2	Ti 334.940†	-11660.5	-12840.2	-2.2342 ug/L	-2.2342 ppb	18:38:30
2	Tl 190.801†	-120.4	-98.0	-32.122 ug/L	-32.122 ppb	18:38:50
2	U 409.014†	457152.8	545976.8	13888 ug/L	13888 ppb	18:38:30
2	V 292.402†	2878.5	4886.4	3.2299 ug/L	3.2299 ppb	18:38:50
2	Zn 213.857†	6272.0	6531.6	16.863 ug/L	16.863 ppb	18:38:50
2	SiO2†	-569.9	-1074.9	-68.920 ug/L	-68.920 ppb	18:39:26
3	Sc Radial	4905.6	4905.6	93.0 %		18:37:57
3	Y RADIAL	5176.5	5176.5	93.72 %		18:37:57
3	Al 396.153Radial†	593596.5	638361.3	515670 ug/L	515670 ppb	18:37:52
3	Ca 317.933Radial†	265755.2	285728.0	475640 ug/L	475640 ppb	18:37:52
3	Fe 238.204 Radial†	42799.0	46008.8	441170 ug/L	441170 ppb	18:37:57
3	K 766.490 Radial†	2627.6	164.1	-332.17 ug/L	-332.17 ppb	18:37:57
3	Mg 279.077 IEC†	11993.3	12894.2	491850 ug/L	491850 ppb	18:37:57
3	Na 589.592 Radial†	1586839.4	1706809.3	519800 ug/L	519800 ppb	18:37:52
3	Sr 421.552†	874.5	873.5	1.8288 ug/L	1.8288 ppb	18:37:57
3	Sc 361.383	827698.6	827698.6	83.439 %		18:38:55
3	Y 371.029	701245.1	701245.1	81.544 %		18:38:55
3	Ag 328.068†	-23983.6	-29118.6	1.5703 ug/L	1.5703 ppb	18:38:55
3	As 188.979†	-183.8	-183.7	27.749 ug/L	27.749 ppb	18:39:15
3	B 249.677†	1993.4	2730.2	-8.9795 ug/L	-8.9795 ppb	18:38:55
3	Ba 233.527†	-1678.9	-1995.8	-2.6963 ug/L	-2.6963 ppb	18:39:15
3	Be 313.107†	-11574.1	-9068.9	-3.3530 ug/L	-3.3530 ppb	18:38:55
3	Cd 226.502†	3646.0	4553.3	8.2827 ug/L	8.2827 ppb	18:39:15
3	Co 228.616†	231.6	346.6	0.8884 ug/L	0.8884 ppb	18:39:15
3	Cr 267.716†	-34.3	-110.4	1.9193 ug/L	1.9193 ppb	18:39:15
3	Cu 324.752†	3058.3	-5304.8	0.6518 ug/L	0.6518 ppb	18:38:55
3	Mn 257.610†	-24033.8	-29374.3	-9.5694 ug/L	-9.5694 ppb	18:38:55
3	Mo 202.031†	-506.9	-618.1	-2.5376 ug/L	-2.5376 ppb	18:39:15
3	Ni 231.604†	314.3	296.2	7.1655 ug/L	7.1655 ppb	18:39:15
3	P 214.914†	605.9	477.5	39.388 ug/L	39.388 ppb	18:39:15
3	Pb 220.353†	-459.4	-505.5	16.119 ug/L	16.119 ppb	18:39:15
3	S 181.975 Axial†	77.2	49.8	-29.782 ug/L	-29.782 ppb	18:39:15
3	Sb 206.836†	66.6	44.9	9.6420 ug/L	9.6420 ppb	18:39:15
3	Se 196.026†	-2309.2	-2743.9	-11.702 ug/L	-11.702 ppb	18:39:15
3	Si 251.611†	-460.9	-956.0	-28.680 ug/L	-28.680 ppb	18:39:15
3	Sn 189.927†	-374.4	-449.8	-1.8862 ug/L	-1.8862 ppb	18:39:15
3	Ti 334.940†	-11509.7	-12779.6	-1.9249 ug/L	-1.9249 ppb	18:38:55
3	Tl 190.801†	-109.6	-86.3	-28.350 ug/L	-28.350 ppb	18:39:15
3	U 409.014†	453586.0	546410.6	13899 ug/L	13899 ppb	18:38:55
3	V 292.402†	2735.0	4744.1	2.2412 ug/L	2.2412 ppb	18:39:15
3	Zn 213.857†	6313.0	6645.3	17.839 ug/L	17.839 ppb	18:39:15
3	SiO2†	-514.7	-1014.5	-65.011 ug/L	-65.011 ppb	18:39:31

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	833782.0	84.052 %		0.5663			0.67%
Sc Radial	4909.2	93.1 %		0.55			0.59%
Y 371.029	706544.0	82.160 %		0.5904			0.72%
Y RADIAL	5175.3	93.70 %		0.320			0.34%
Ag 328.068†	-29208.1	0.9126 ug/L		0.60723	0.9126 ppb	0.60723	66.54%
Al 396.153Radial†	634864.9	512850 ug/L		3353.4	512850 ppb	3353.4	0.65%
QC value within limits for Al 396.153Radial Recovery = 102.57%							
As 188.979†	-191.0	24.522 ug/L		2.9827	24.522 ppb	2.9827	12.16%
B 249.677†	2655.1	-10.550 ug/L		2.1055	-10.550 ppb	2.1055	19.96%
Ba 233.527†	-1977.0	-2.5718 ug/L		0.14140	-2.5718 ppb	0.14140	5.50%
Be 313.107†	-9053.1	-3.3474 ug/L		0.01252	-3.3474 ppb	0.01252	0.37%
Ca 317.933Radial†	284498.1	473590 ug/L		2703.6	473590 ppb	2703.6	0.57%
QC value within limits for Ca 317.933Radial Recovery = 94.72%							
Cd 226.502†	4544.0	8.2762 ug/L		0.31254	8.2762 ppb	0.31254	3.78%
Co 228.616†	313.8	0.2090 ug/L		0.59101	0.2090 ppb	0.59101	282.85%
Cr 267.716†	-123.3	1.7631 ug/L		0.14874	1.7631 ppb	0.14874	8.44%
Cu 324.752†	-5274.1	0.6860 ug/L		0.03413	0.6860 ppb	0.03413	4.98%

Fe 238.204 Radial†	45911.3	440230 ug/L	1184.5	440230 ppb	1184.5	0.27%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.05%						
K 766.490 Radial†	129.0	-337.31 ug/L	4.691	-337.31 ppb	4.691	1.39%
Mg 279.077 IEC†	12870.1	490930 ug/L	2539.2	490930 ppb	2539.2	0.52%
QC value within limits for Mg 279.077 IEC Recovery = 98.19%						
Mn 257.610†	-29545.2	-9.8162 ug/L	0.36016	-9.8162 ppb	0.36016	3.67%
Mo 202.031†	-620.4	-2.7954 ug/L	0.74176	-2.7954 ppb	0.74176	26.54%
Na 589.592 Radial†	1702355.7	518440 ug/L	2443.5	518440 ppb	2443.5	0.47%
QC value within limits for Na 589.592 Radial Recovery = 103.69%						
Ni 231.604†	249.6	6.0365 ug/L	0.99178	6.0365 ppb	0.99178	16.43%
P 214.914†	462.2	30.932 ug/L	7.7781	30.932 ppb	7.7781	25.15%
Pb 220.353†	-501.6	16.040 ug/L	0.9881	16.040 ppb	0.9881	6.16%
S 181.975 Axial†	62.9	-11.693 ug/L	30.8673	-11.693 ppb	30.8673	263.97%
Sb 206.836†	52.1	11.980 ug/L	2.0794	11.980 ppb	2.0794	17.36%
Se 196.026†	-2732.8	-8.9475 ug/L	3.61165	-8.9475 ppb	3.61165	40.37%
Si 251.611†	-965.7	-28.974 ug/L	0.7157	-28.974 ppb	0.7157	2.47%
Sn 189.927†	-451.3	-2.4786 ug/L	2.38074	-2.4786 ppb	2.38074	96.05%
Sr 421.552†	879.8	1.8828 ug/L	0.09804	1.8828 ppb	0.09804	5.21%
Ti 334.940†	-12834.6	-2.2099 ug/L	0.27359	-2.2099 ppb	0.27359	12.38%
Tl 190.801†	-90.4	-29.648 ug/L	2.1438	-29.648 ppb	2.1438	7.23%
U 409.014†	546610.4	13904 ug/L	19.4	13904 ppb	19.4	0.14%
QC value within limits for U 409.014 Recovery = 92.69%						
V 292.402†	4807.2	2.7778 ug/L	0.49978	2.7778 ppb	0.49978	17.99%
Zn 213.857†	6565.4	17.207 ug/L	0.5476	17.207 ppb	0.5476	3.18%
SiO2†	-1000.5	-64.091 ug/L	5.3482	-64.091 ppb	5.3482	8.34%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
 Date Collected: 1/29/2010 18:41:42
 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	5366.0	5366.0	102 %		18:43:39
1	Y RADIAL	5595.6	5595.6	101.3 %		18:43:39
1	Al 396.153Radial†	458.0	557.1	-23.669 ug/L	-23.669 ppb	18:43:39
1	Ca 317.933Radial†	35.4	14.1	23.462 ug/L	23.462 ppb	18:43:59
1	Fe 238.204 Radial†	-16.9	-26.7	29.153 ug/L	29.153 ppb	18:43:59
1	K 766.490 Radial†	1712866.4	1681032.2	303540 ug/L	303540 ppb	18:43:34
1	Mg 279.077 IEC†	-7.1	-8.4	-217.41 ug/L	-217.41 ppb	18:43:59
1	Na 589.592 Radial†	-236.4	355.3	108.19 ug/L	108.19 ppb	18:43:39
1	Sr 421.552†	1609209.0	1581734.6	9742.4 ug/L	9742.4 ppb	18:43:34
1	Sc 361.383	915983.0	915983.0	92.338 %		18:45:16
1	Y 371.029	774669.4	774669.4	90.082 %		18:45:16
1	Ag 328.068†	-7759.3	-8777.7	3.4295 ug/L	3.4295 ppb	18:45:22
1	As 188.979†	21363.4	23172.5	9589.8 ug/L	9589.8 ppb	18:45:22
1	B 249.677†	201161.2	218193.4	4982.5 ug/L	4982.5 ppb	18:45:16
1	Ba 233.527†	1550112.1	1678747.4	13638 ug/L	13638 ppb	18:45:16
1	Be 313.107†	7412849.1	8032724.9	2953.9 ug/L	2953.9 ppb	18:45:10
1	Cd 226.502†	796003.4	862234.5	9688.7 ug/L	9688.7 ppb	18:45:16
1	Co 228.616†	416431.0	451053.0	9530.8 ug/L	9530.8 ppb	18:45:22
1	Cr 267.716†	2097506.0	2271475.1	24049 ug/L	24049 ppb	18:45:16
1	Cu 324.752†	6876184.6	7437758.7	20999 ug/L	20999 ppb	18:45:10
1	Mn 257.610†	8027397.5	8692892.2	9769.6 ug/L	9769.6 ppb	18:45:10
1	Mo 202.031†	131356.7	142245.3	9768.3 ug/L	9768.3 ppb	18:45:22
1	Ni 231.604†	367255.6	397647.7	9619.2 ug/L	9619.2 ppb	18:45:22
1	P 214.914†	30483.0	32763.7	14037 ug/L	14037 ppb	18:45:22
1	Pb 220.353†	189199.6	204943.4	24652 ug/L	24652 ppb	18:45:22
1	S 181.975 Axial†	36305.5	39275.2	52746 ug/L	52746 ppb	18:45:22
1	Sb 206.836†	31065.7	33608.5	11158 ug/L	11158 ppb	18:45:22
1	Se 196.026†	16988.3	18421.6	10121 ug/L	10121 ppb	18:45:22
1	Si 251.611†	1445926.1	1565496.7	47701 ug/L	47701 ppb	18:45:16
1	Sn 189.927†	53270.6	57689.6	10464 ug/L	10464 ppb	18:45:22
1	Ti 334.940†	6165246.2	6677815.7	10120 ug/L	10120 ppb	18:45:10
1	Tl 190.801†	28361.5	30759.8	10024 ug/L	10024 ppb	18:45:22
1	U 409.014†	-1351.7	1330.0	-19.804 ug/L	-19.804 ppb	18:45:22
1	V 292.402†	1430073.8	1550198.9	10205 ug/L	10205 ppb	18:45:16
1	Zn 213.857†	1421888.7	1538947.6	13958 ug/L	13958 ppb	18:45:16
1	SiO2†	1449527.2	1569402.5	102090 ug/L	102090 ppb	18:46:08
2	Sc Radial	5389.6	5389.6	102 %		18:44:10
2	Y RADIAL	5628.1	5628.1	101.9 %		18:44:10
2	Al 396.153Radial†	448.2	545.6	-31.421 ug/L	-31.421 ppb	18:44:10
2	Ca 317.933Radial†	39.5	18.0	29.956 ug/L	29.956 ppb	18:44:30
2	Fe 238.204 Radial†	-19.0	-28.7	8.9784 ug/L	8.9784 ppb	18:44:30
2	K 766.490 Radial†	1756663.8	1716539.9	309950 ug/L	309950 ppb	18:44:05
2	Mg 279.077 IEC†	-4.7	-5.9	-123.80 ug/L	-123.80 ppb	18:44:30
2	Na 589.592 Radial†	-300.8	293.3	89.315 ug/L	89.315 ppb	18:44:10
2	Sr 421.552†	1652223.4	1616921.2	9959.1 ug/L	9959.1 ppb	18:44:05
2	Sc 361.383	913344.9	913344.9	92.072 %		18:45:36
2	Y 371.029	773345.8	773345.8	89.928 %		18:45:36
2	Ag 328.068†	-7665.8	-8700.3	3.7498 ug/L	3.7498 ppb	18:45:42
2	As 188.979†	21269.5	23137.4	9575.8 ug/L	9575.8 ppb	18:45:42
2	B 249.677†	200306.6	217894.5	4975.8 ug/L	4975.8 ppb	18:45:36
2	Ba 233.527†	1543280.6	1676176.5	13617 ug/L	13617 ppb	18:45:36
2	Be 313.107†	7419586.1	8063229.6	2965.1 ug/L	2965.1 ppb	18:45:30
2	Cd 226.502†	792525.8	860947.4	9674.3 ug/L	9674.3 ppb	18:45:36
2	Co 228.616†	413676.2	449363.6	9494.9 ug/L	9494.9 ppb	18:45:42
2	Cr 267.716†	2089960.8	2269841.3	24031 ug/L	24031 ppb	18:45:36
2	Cu 324.752†	6891772.6	7476197.8	21108 ug/L	21108 ppb	18:45:30
2	Mn 257.610†	8031888.6	8722880.0	9803.3 ug/L	9803.3 ppb	18:45:30
2	Mo 202.031†	130540.3	141769.5	9735.7 ug/L	9735.7 ppb	18:45:42
2	Ni 231.604†	364920.4	396260.3	9585.6 ug/L	9585.6 ppb	18:45:42

2	P 214.914†	30237.4	32592.2	13920 ug/L	13920 ppb	18:45:42
2	Pb 220.353†	188045.7	204281.9	24573 ug/L	24573 ppb	18:45:42
2	S 181.975 Axial†	36023.0	39081.9	52487 ug/L	52487 ppb	18:45:42
2	Sb 206.836†	30892.4	33517.4	11127 ug/L	11127 ppb	18:45:42
2	Se 196.026†	16902.9	18381.9	10099 ug/L	10099 ppb	18:45:42
2	Si 251.611†	1440016.7	1563601.4	47644 ug/L	47644 ppb	18:45:36
2	Sn 189.927†	52960.2	57519.0	10434 ug/L	10434 ppb	18:45:42
2	Ti 334.940†	6175880.3	6708650.6	10167 ug/L	10167 ppb	18:45:30
2	Tl 190.801†	28141.4	30609.4	9976.3 ug/L	9976.3 ppb	18:45:42
2	U 409.014†	-1332.3	1346.8	-19.333 ug/L	-19.333 ppb	18:45:42
2	V 292.402†	1425908.5	1550148.3	10204 ug/L	10204 ppb	18:45:36
2	Zn 213.857†	1415452.2	1536404.7	13935 ug/L	13935 ppb	18:45:36
2	SiO2†	1442560.4	1566370.1	101890 ug/L	101890 ppb	18:46:14
3	Sc Radial	5251.6	5251.6	99.6 %		18:44:40
3	Y RADIAL	5493.5	5493.5	99.46 %		18:44:40
3	Al 396.153Radial†	436.6	545.4	-37.023 ug/L	-37.023 ppb	18:44:40
3	Ca 317.933Radial†	39.7	19.1	31.856 ug/L	31.856 ppb	18:45:00
3	Fe 238.204 Radial†	-16.3	-26.4	33.069 ug/L	33.069 ppb	18:45:00
3	K 766.490 Radial†	1683807.3	1688518.8	304890 ug/L	304890 ppb	18:44:35
3	Mg 279.077 IEC†	-4.1	-5.4	-104.69 ug/L	-104.69 ppb	18:45:00
3	Na 589.592 Radial†	-289.8	296.6	90.322 ug/L	90.322 ppb	18:44:40
3	Sr 421.552†	1578786.4	1585632.5	9766.4 ug/L	9766.4 ppb	18:44:35
3	Sc 361.383	905363.2	905363.2	91.268 %		18:45:56
3	Y 371.029	768053.0	768053.0	89.313 %		18:45:56
3	Ag 328.068†	-7637.5	-8742.7	3.6072 ug/L	3.6072 ppb	18:46:01
3	As 188.979†	21327.2	23404.2	9684.0 ug/L	9684.0 ppb	18:46:01
3	B 249.677†	197854.3	217125.5	4957.9 ug/L	4957.9 ppb	18:45:56
3	Ba 233.527†	1529092.2	1675407.6	13611 ug/L	13611 ppb	18:45:56
3	Be 313.107†	7274432.8	7975231.3	2932.7 ug/L	2932.7 ppb	18:45:50
3	Cd 226.502†	786052.7	861443.4	9679.9 ug/L	9679.9 ppb	18:45:56
3	Co 228.616†	413714.4	453366.4	9580.1 ug/L	9580.1 ppb	18:46:01
3	Cr 267.716†	2075450.2	2273953.8	24075 ug/L	24075 ppb	18:45:56
3	Cu 324.752†	6732813.5	7368019.0	20802 ug/L	20802 ppb	18:45:50
3	Mn 257.610†	7851680.7	8602336.0	9667.8 ug/L	9667.8 ppb	18:45:50
3	Mo 202.031†	130900.0	143413.5	9848.6 ug/L	9848.6 ppb	18:46:01
3	Ni 231.604†	365539.0	400432.2	9686.5 ug/L	9686.5 ppb	18:46:01
3	P 214.914†	30197.5	32838.0	14118 ug/L	14118 ppb	18:46:01
3	Pb 220.353†	188437.6	206511.9	24841 ug/L	24841 ppb	18:46:01
3	S 181.975 Axial†	36025.3	39429.3	52953 ug/L	52953 ppb	18:46:01
3	Sb 206.836†	30889.6	33810.2	11226 ug/L	11226 ppb	18:46:01
3	Se 196.026†	16903.0	18543.9	10189 ug/L	10189 ppb	18:46:01
3	Si 251.611†	1423948.8	1559784.3	47526 ug/L	47526 ppb	18:45:56
3	Sn 189.927†	53050.1	58124.6	10543 ug/L	10543 ppb	18:46:01
3	Ti 334.940†	6036905.2	6615513.0	10025 ug/L	10025 ppb	18:45:50
3	Tl 190.801†	28247.2	30994.8	10099 ug/L	10099 ppb	18:46:01
3	U 409.014†	-1468.4	1184.9	-23.566 ug/L	-23.566 ppb	18:46:01
3	V 292.402†	1414386.6	1551177.2	10213 ug/L	10213 ppb	18:45:56
3	Zn 213.857†	1404105.1	1537524.9	13945 ug/L	13945 ppb	18:45:56
3	SiO2†	1452172.6	1590714.5	103480 ug/L	103480 ppb	18:46:19

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	911563.7	91.893 %	0.5574			0.61%
Sc Radial	5335.8	101 %	1.4			1.38%
Y 371.029	772022.7	89.774 %	0.4071			0.45%
Y RADIAL	5572.4	100.9 %	1.27			1.26%
Ag 328.068†	-8740.2	3.5955 ug/L	0.16047	3.5955 ppb	0.16047	4.46%
Al 396.153Radial†	549.4	-30.704 ug/L	6.7060	-30.704 ppb	6.7060	21.84%
As 188.979†	23238.0	9616.5 ug/L	58.84	9616.5 ppb	58.84	0.61%
QC value within limits for As 188.979 Recovery = 96.17%						
B 249.677†	217737.8	4972.0 ug/L	12.74	4972.0 ppb	12.74	0.26%
QC value within limits for B 249.677 Recovery = 99.44%						
Ba 233.527†	1676777.2	13622 ug/L	14.2	13622 ppb	14.2	0.10%
QC value within limits for Ba 233.527 Recovery = 90.81%						
Be 313.107†	8023728.6	2950.6 ug/L	16.47	2950.6 ppb	16.47	0.56%
QC value within limits for Be 313.107 Recovery = 98.35%						
Ca 317.933Radial†	17.1	28.425 ug/L	4.4014	28.425 ppb	4.4014	15.48%
Cd 226.502†	861541.8	9681.0 ug/L	7.30	9681.0 ppb	7.30	0.08%
QC value within limits for Cd 226.502 Recovery = 96.81%						

Co 228.616†	451261.0	9535.3 ug/L	42.74	9535.3 ppb	42.74	0.45%
QC value within limits for Co 228.616 Recovery = 95.35%						
Cr 267.716†	2271756.7	24052 ug/L	21.9	24052 ppb	21.9	0.09%
QC value within limits for Cr 267.716 Recovery = 96.21%						
Cu 324.752†	7427325.1	20970 ug/L	154.8	20970 ppb	154.8	0.74%
QC value within limits for Cu 324.752 Recovery = 104.85%						
Fe 238.204 Radial†	-27.3	23.733 ug/L	12.9273	23.733 ppb	12.9273	54.47%
K 766.490 Radial†	1695363.6	306130 ug/L	3379.9	306130 ppb	3379.9	1.10%
QC value within limits for K 766.490 Radial Recovery = 102.04%						
Mg 279.077 IEC†	-6.6	-148.63 ug/L	60.325	-148.63 ppb	60.325	40.59%
Mn 257.610†	8672702.8	9746.9 ug/L	70.53	9746.9 ppb	70.53	0.72%
QC value within limits for Mn 257.610 Recovery = 97.47%						
Mo 202.031†	142476.1	9784.2 ug/L	58.09	9784.2 ppb	58.09	0.59%
QC value within limits for Mo 202.031 Recovery = 97.84%						
Na 589.592 Radial†	315.0	95.943 ug/L	10.6193	95.943 ppb	10.6193	11.07%
Ni 231.604†	398113.4	9630.4 ug/L	51.40	9630.4 ppb	51.40	0.53%
QC value within limits for Ni 231.604 Recovery = 96.30%						
P 214.914†	32731.3	14025 ug/L	99.3	14025 ppb	99.3	0.71%
QC value within limits for P 214.914 Recovery = 93.50%						
Pb 220.353†	205245.7	24689 ug/L	137.9	24689 ppb	137.9	0.56%
QC value within limits for Pb 220.353 Recovery = 98.75%						
S 181.975 Axial†	39262.1	52729 ug/L	233.8	52729 ppb	233.8	0.44%
QC value within limits for S 181.975 Axial Recovery = 105.46%						
Sb 206.836†	33645.4	11170 ug/L	50.5	11170 ppb	50.5	0.45%
QC value greater than the upper limit for Sb 206.836 Recovery = 111.70%						
Se 196.026†	18449.2	10136 ug/L	46.5	10136 ppb	46.5	0.46%
QC value within limits for Se 196.026 Recovery = 101.36%						
Si 251.611†	1562960.8	47624 ug/L	89.5	47624 ppb	89.5	0.19%
QC value within limits for Si 251.611 Recovery = 95.25%						
Sn 189.927†	57777.7	10480 ug/L	56.6	10480 ppb	56.6	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%						
Sr 421.552†	1594762.8	9822.6 ug/L	118.80	9822.6 ppb	118.80	1.21%
QC value within limits for Sr 421.552 Recovery = 98.23%						
Ti 334.940†	6667326.4	10104 ug/L	72.0	10104 ppb	72.0	0.71%
QC value within limits for Ti 334.940 Recovery = 101.04%						
Tl 190.801†	30788.0	10033 ug/L	61.7	10033 ppb	61.7	0.62%
QC value within limits for Tl 190.801 Recovery = 100.33%						
U 409.014†	1287.2	-20.901 ug/L	2.3202	-20.901 ppb	2.3202	11.10%
V 292.402†	1550508.1	10208 ug/L	4.6	10208 ppb	4.6	0.05%
QC value within limits for V 292.402 Recovery = 102.08%						
Zn 213.857†	1537625.7	13946 ug/L	11.6	13946 ppb	11.6	0.08%
QC value within limits for Zn 213.857 Recovery = 92.97%						
SiO2†	1575495.7	102490 ug/L	863.7	102490 ppb	863.7	0.84%
QC value within limits for SiO2 Recovery = 95.78%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 18:48:29

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	5510.1	5510.1	104 %		18:50:22
1	Y RADIAL	5769.0	5769.0	104.5 %		18:50:22
1	Al 396.153Radial†	6339.3	6175.3	4964.8 ug/L	4964.8 ppb	18:50:22
1	Ca 317.933Radial†	3179.4	3022.9	5032.0 ug/L	5032.0 ppb	18:50:42
1	Fe 238.204 Radial†	564.4	530.2	5098.7 ug/L	5098.7 ppb	18:50:42
1	K 766.490 Radial†	33114.2	29038.1	5237.2 ug/L	5237.2 ppb	18:50:22
1	Mg 279.077 IEC†	143.5	136.0	5191.7 ug/L	5191.7 ppb	18:50:22
1	Na 589.592 Radial†	34182.3	33309.4	10144 ug/L	10144 ppb	18:50:42
1	Sr 421.552†	86590.5	82823.9	510.10 ug/L	510.10 ppb	18:50:22
1	Sc 361.383	1021496.0	1021496.0	102.97 %		18:51:40
1	Y 371.029	876136.1	876136.1	101.88 %		18:51:40
1	Ag 328.068†	120016.3	116174.5	496.19 ug/L	496.19 ppb	18:51:45
1	As 188.979†	1253.5	1253.8	519.63 ug/L	519.63 ppb	18:52:05
1	B 249.677†	23029.0	22704.8	519.05 ug/L	519.05 ppb	18:51:45
1	Ba 233.527†	62882.8	61082.5	496.65 ug/L	496.65 ppb	18:51:45
1	Be 313.107†	1387649.8	1352364.1	494.54 ug/L	494.54 ppb	18:51:40
1	Cd 226.502†	45431.1	44302.2	497.39 ug/L	497.39 ppb	18:51:45
1	Co 228.616†	24154.3	23525.6	497.30 ug/L	497.30 ppb	18:51:45
1	Cr 267.716†	48302.3	46837.6	496.19 ug/L	496.19 ppb	18:51:45
1	Cu 324.752†	188819.3	174394.4	492.36 ug/L	492.36 ppb	18:51:45
1	Mn 257.610†	451856.5	438232.6	492.80 ug/L	492.80 ppb	18:51:40
1	Mo 202.031†	7329.2	7106.9	488.50 ug/L	488.50 ppb	18:52:05
1	Ni 231.604†	21254.9	20560.4	497.36 ug/L	497.36 ppb	18:51:45
1	P 214.914†	4739.8	4354.2	2310.6 ug/L	2310.6 ppb	18:52:05
1	Pb 220.353†	4167.8	4092.5	493.64 ug/L	493.64 ppb	18:52:05
1	S 181.975 Axial†	784.8	719.3	965.13 ug/L	965.13 ppb	18:52:05
1	Sb 206.836†	1634.4	1552.3	516.27 ug/L	516.27 ppb	18:52:05
1	Se 196.026†	907.0	904.5	514.18 ug/L	514.18 ppb	18:52:05
1	Si 251.611†	83826.7	81001.4	2468.4 ug/L	2468.4 ppb	18:51:45
1	Sn 189.927†	2776.5	2695.2	489.74 ug/L	489.74 ppb	18:52:05
1	Ti 334.940†	328398.4	319925.9	485.10 ug/L	485.10 ppb	18:51:45
1	Tl 190.801†	1517.3	1518.5	494.68 ug/L	494.68 ppb	18:52:05
1	U 409.014†	17186.8	19484.1	495.72 ug/L	495.72 ppb	18:51:45
1	V 292.402†	76704.6	75954.9	500.73 ug/L	500.73 ppb	18:51:45
1	Zn 213.857†	57090.0	54519.9	493.34 ug/L	493.34 ppb	18:51:45
1	SiO2†	82838.8	80048.0	5207.5 ug/L	5207.5 ppb	18:53:12
2	Sc Radial	5618.6	5618.6	107 %		18:50:47
2	Y RADIAL	5857.4	5857.4	106.1 %		18:50:47
2	Al 396.153Radial†	6163.5	5893.1	4736.0 ug/L	4736.0 ppb	18:50:47
2	Ca 317.933Radial†	3185.4	2969.7	4943.5 ug/L	4943.5 ppb	18:51:07
2	Fe 238.204 Radial†	568.5	523.6	5035.8 ug/L	5035.8 ppb	18:51:07
2	K 766.490 Radial†	32415.0	27769.3	5008.3 ug/L	5008.3 ppb	18:50:47
2	Mg 279.077 IEC†	143.9	133.7	5105.4 ug/L	5105.4 ppb	18:51:07
2	Na 589.592 Radial†	33003.3	31570.4	9614.6 ug/L	9614.6 ppb	18:50:47
2	Sr 421.552†	84016.2	78805.8	485.35 ug/L	485.35 ppb	18:50:47
2	Sc 361.383	993565.5	993565.5	100.16 %		18:52:11
2	Y 371.029	851164.8	851164.8	98.977 %		18:52:11
2	Ag 328.068†	119685.8	119120.9	508.71 ug/L	508.71 ppb	18:52:16
2	As 188.979†	1256.2	1290.7	534.84 ug/L	534.84 ppb	18:52:36
2	B 249.677†	22856.7	23161.4	529.52 ug/L	529.52 ppb	18:52:16
2	Ba 233.527†	62637.2	62554.0	508.61 ug/L	508.61 ppb	18:52:16
2	Be 313.107†	1392791.0	1395379.0	510.26 ug/L	510.26 ppb	18:52:11
2	Cd 226.502†	45152.2	45264.0	508.20 ug/L	508.20 ppb	18:52:16
2	Co 228.616†	24017.1	24047.9	508.35 ug/L	508.35 ppb	18:52:16
2	Cr 267.716†	48074.6	47928.9	507.74 ug/L	507.74 ppb	18:52:16
2	Cu 324.752†	188294.4	179025.0	505.42 ug/L	505.42 ppb	18:52:16
2	Mn 257.610†	454292.1	452999.6	509.40 ug/L	509.40 ppb	18:52:11
2	Mo 202.031†	7365.0	7342.7	504.69 ug/L	504.69 ppb	18:52:36
2	Ni 231.604†	21216.6	21102.4	510.47 ug/L	510.47 ppb	18:52:16

2	P 214.914†	4780.8	4524.5	2402.3 ug/L	2402.3 ppb	18:52:36
2	Pb 220.353†	4193.9	4232.3	510.44 ug/L	510.44 ppb	18:52:36
2	S 181.975 Axial†	792.2	748.2	1004.0 ug/L	1004.0 ppb	18:52:36
2	Sb 206.836†	1653.2	1615.7	537.22 ug/L	537.22 ppb	18:52:36
2	Se 196.026†	906.1	928.3	527.04 ug/L	527.04 ppb	18:52:36
2	Si 251.611†	83408.4	82872.2	2525.3 ug/L	2525.3 ppb	18:52:16
2	Sn 189.927†	2787.9	2782.3	505.53 ug/L	505.53 ppb	18:52:36
2	Ti 334.940†	327367.2	327861.4	497.12 ug/L	497.12 ppb	18:52:16
2	Tl 190.801†	1519.7	1562.3	508.96 ug/L	508.96 ppb	18:52:36
2	U 409.014†	17275.8	20042.1	509.95 ug/L	509.95 ppb	18:52:16
2	V 292.402†	76317.0	77661.9	512.09 ug/L	512.09 ppb	18:52:16
2	Zn 213.857†	56940.8	55929.5	506.11 ug/L	506.11 ppb	18:52:16
2	SiO2†	83266.8	82736.7	5382.4 ug/L	5382.4 ppb	18:53:17
3	Sc Radial	5517.0	5517.0	105 %		18:51:12
3	Y RADIAL	5780.9	5780.9	104.7 %		18:51:12
3	Al 396.153Radial†	6169.3	6005.2	4826.2 ug/L	4826.2 ppb	18:51:12
3	Ca 317.933Radial†	3167.7	3007.8	5007.0 ug/L	5007.0 ppb	18:51:32
3	Fe 238.204 Radial†	565.7	530.8	5105.0 ug/L	5105.0 ppb	18:51:32
3	K 766.490 Radial†	32280.9	28201.8	5086.3 ug/L	5086.3 ppb	18:51:12
3	Mg 279.077 IEC†	140.2	132.7	5066.0 ug/L	5066.0 ppb	18:51:32
3	Na 589.592 Radial†	32800.2	31947.2	9729.4 ug/L	9729.4 ppb	18:51:12
3	Sr 421.552†	83657.1	79915.9	492.19 ug/L	492.19 ppb	18:51:12
3	Sc 361.383	981797.9	981797.9	98.973 %		18:52:42
3	Y 371.029	842386.0	842386.0	97.956 %		18:52:42
3	Ag 328.068†	120104.8	120976.6	516.64 ug/L	516.64 ppb	18:52:47
3	As 188.979†	1260.0	1309.5	542.66 ug/L	542.66 ppb	18:53:07
3	B 249.677†	23013.8	23593.7	539.41 ug/L	539.41 ppb	18:52:47
3	Ba 233.527†	62991.0	63661.1	517.61 ug/L	517.61 ppb	18:52:47
3	Be 313.107†	1384357.5	1403524.9	513.25 ug/L	513.25 ppb	18:52:42
3	Cd 226.502†	45532.3	46188.4	518.58 ug/L	518.58 ppb	18:52:47
3	Co 228.616†	24134.2	24453.7	516.93 ug/L	516.93 ppb	18:52:47
3	Cr 267.716†	48467.6	48901.3	518.04 ug/L	518.04 ppb	18:52:47
3	Cu 324.752†	189048.9	182040.5	513.94 ug/L	513.94 ppb	18:52:47
3	Mn 257.610†	450266.1	454368.2	510.94 ug/L	510.94 ppb	18:52:42
3	Mo 202.031†	7382.6	7448.7	511.97 ug/L	511.97 ppb	18:53:07
3	Ni 231.604†	21276.9	21417.2	518.08 ug/L	518.08 ppb	18:52:47
3	P 214.914†	4799.4	4600.5	2442.6 ug/L	2442.6 ppb	18:53:07
3	Pb 220.353†	4217.4	4306.3	519.36 ug/L	519.36 ppb	18:53:07
3	S 181.975 Axial†	801.7	767.2	1029.5 ug/L	1029.5 ppb	18:53:07
3	Sb 206.836†	1652.1	1634.4	543.46 ug/L	543.46 ppb	18:53:07
3	Se 196.026†	915.7	949.0	538.59 ug/L	538.59 ppb	18:53:07
3	Si 251.611†	83638.5	84102.8	2562.8 ug/L	2562.8 ppb	18:52:47
3	Sn 189.927†	2794.4	2822.3	512.79 ug/L	512.79 ppb	18:53:07
3	Ti 334.940†	329197.2	333627.9	505.88 ug/L	505.88 ppb	18:52:47
3	Tl 190.801†	1536.1	1597.1	520.24 ug/L	520.24 ppb	18:53:07
3	U 409.014†	17271.6	20244.6	515.09 ug/L	515.09 ppb	18:52:47
3	V 292.402†	76970.5	79235.5	522.41 ug/L	522.41 ppb	18:52:47
3	Zn 213.857†	57140.6	56812.7	514.11 ug/L	514.11 ppb	18:52:47
3	SiO2†	82941.0	83404.0	5425.7 ug/L	5425.7 ppb	18:53:23

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	998953.1	100.70 %		2.055			2.04%
Sc Radial	5548.6	105 %		1.2			1.10%
Y 371.029	856562.3	99.605 %		2.0362			2.04%
Y RADIAL	5802.4	105.1 %		0.87			0.83%
Ag 328.068†	118757.4	507.18 ug/L		10.311	507.18 ppb	10.311	2.03%
QC value within limits for Ag 328.068 Recovery = 101.44%							
Al 396.153Radial†	6024.5	4842.3 ug/L		115.23	4842.3 ppb	115.23	2.38%
QC value within limits for Al 396.153Radial Recovery = 96.85%							
As 188.979†	1284.7	532.38 ug/L		11.710	532.38 ppb	11.710	2.20%
QC value within limits for As 188.979 Recovery = 106.48%							
B 249.677†	23153.3	529.33 ug/L		10.177	529.33 ppb	10.177	1.92%
QC value within limits for B 249.677 Recovery = 105.87%							
Ba 233.527†	62432.5	507.62 ug/L		10.515	507.62 ppb	10.515	2.07%
QC value within limits for Ba 233.527 Recovery = 101.52%							
Be 313.107†	1383756.0	506.02 ug/L		10.053	506.02 ppb	10.053	1.99%
QC value within limits for Be 313.107 Recovery = 101.20%							
Ca 317.933Radial†	3000.1	4994.2 ug/L		45.59	4994.2 ppb	45.59	0.91%

QC value within limits for Ca 317.933 Radial Recovery = 99.88%

Cd 226.502†	45251.5	508.06 ug/L	10.599	508.06 ppb	10.599	2.09%
QC value within limits for Cd 226.502 Recovery = 101.61%						
Co 228.616†	24009.1	507.53 ug/L	9.840	507.53 ppb	9.840	1.94%
QC value within limits for Co 228.616 Recovery = 101.51%						
Cr 267.716†	47889.3	507.32 ug/L	10.935	507.32 ppb	10.935	2.16%
QC value within limits for Cr 267.716 Recovery = 101.46%						
Cu 324.752†	178486.6	503.91 ug/L	10.868	503.91 ppb	10.868	2.16%
QC value within limits for Cu 324.752 Recovery = 100.78%						
Fe 238.204 Radial†	528.2	5079.8 ug/L	38.25	5079.8 ppb	38.25	0.75%
QC value within limits for Fe 238.204 Radial Recovery = 101.60%						
K 766.490 Radial†	28336.4	5110.6 ug/L	116.37	5110.6 ppb	116.37	2.28%
QC value within limits for K 766.490 Radial Recovery = 102.21%						
Mg 279.077 IEC†	134.1	5121.1 ug/L	64.29	5121.1 ppb	64.29	1.26%
QC value within limits for Mg 279.077 IEC Recovery = 102.42%						
Mn 257.610†	448533.5	504.38 ug/L	10.056	504.38 ppb	10.056	1.99%
QC value within limits for Mn 257.610 Recovery = 100.88%						
Mo 202.031†	7299.4	501.72 ug/L	12.014	501.72 ppb	12.014	2.39%
QC value within limits for Mo 202.031 Recovery = 100.34%						
Na 589.592 Radial†	32275.7	9829.4 ug/L	278.61	9829.4 ppb	278.61	2.83%
QC value within limits for Na 589.592 Radial Recovery = 98.29%						
Ni 231.604†	21026.7	508.64 ug/L	10.483	508.64 ppb	10.483	2.06%
QC value within limits for Ni 231.604 Recovery = 101.73%						
P 214.914†	4493.1	2385.1 ug/L	67.66	2385.1 ppb	67.66	2.84%
QC value within limits for P 214.914 Recovery = 95.41%						
Pb 220.353†	4210.4	507.81 ug/L	13.057	507.81 ppb	13.057	2.57%
QC value within limits for Pb 220.353 Recovery = 101.56%						
S 181.975 Axial†	744.9	999.53 ug/L	32.411	999.53 ppb	32.411	3.24%
QC value within limits for S 181.975 Axial Recovery = 99.95%						
Sb 206.836†	1600.8	532.32 ug/L	14.244	532.32 ppb	14.244	2.68%
QC value within limits for Sb 206.836 Recovery = 106.46%						
Se 196.026†	927.3	526.60 ug/L	12.211	526.60 ppb	12.211	2.32%
QC value within limits for Se 196.026 Recovery = 105.32%						
Si 251.611†	82658.8	2518.8 ug/L	47.56	2518.8 ppb	47.56	1.89%
QC value within limits for Si 251.611 Recovery = 100.75%						
Sn 189.927†	2766.6	502.69 ug/L	11.789	502.69 ppb	11.789	2.35%
QC value within limits for Sn 189.927 Recovery = 100.54%						
Sr 421.552†	80515.2	495.88 ug/L	12.780	495.88 ppb	12.780	2.58%
QC value within limits for Sr 421.552 Recovery = 99.18%						
Ti 334.940†	327138.4	496.03 ug/L	10.429	496.03 ppb	10.429	2.10%
QC value within limits for Ti 334.940 Recovery = 99.21%						
Tl 190.801†	1559.3	507.96 ug/L	12.805	507.96 ppb	12.805	2.52%
QC value within limits for Tl 190.801 Recovery = 101.59%						
U 409.014†	19923.6	506.92 ug/L	10.032	506.92 ppb	10.032	1.98%
QC value within limits for U 409.014 Recovery = 101.38%						
V 292.402†	77617.4	511.74 ug/L	10.845	511.74 ppb	10.845	2.12%
QC value within limits for V 292.402 Recovery = 102.35%						
Zn 213.857†	55754.1	504.52 ug/L	10.475	504.52 ppb	10.475	2.08%
QC value within limits for Zn 213.857 Recovery = 100.90%						
SiO2†	82062.9	5338.5 ug/L	115.55	5338.5 ppb	115.55	2.16%
QC value within limits for SiO2 Recovery = 99.83%						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 18:55:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5540.3	5540.3	105 %		18:57:25
1	Y RADIAL	5823.4	5823.4	105.4 %		18:57:25
1	Al 396.153Radial†	-111.0	1.3	1.0230 ug/L	1.0230 ppb	18:57:45
1	Ca 317.933Radial†	22.9	1.1	1.7656 ug/L	1.7656 ppb	18:57:45
1	Fe 238.204 Radial†	9.3	-1.2	-11.703 ug/L	-11.703 ppb	18:57:45
1	K 766.490 Radial†	2996.2	191.3	34.547 ug/L	34.547 ppb	18:57:25
1	Mg 279.077 IEC†	2.6	1.1	41.491 ug/L	41.491 ppb	18:57:45
1	Na 589.592 Radial†	-606.4	10.3	3.1508 ug/L	3.1508 ppb	18:57:25
1	Sr 421.552†	89.7	18.7	0.1151 ug/L	0.1151 ppb	18:57:25
1	Sc 361.383	997424.1	997424.1	100.55 %		18:58:42
1	Y 371.029	864830.1	864830.1	100.57 %		18:58:42
1	Ag 328.068†	439.4	62.5	0.2654 ug/L	0.2654 ppb	18:58:47
1	As 188.979†	13.5	49.9	20.514 ug/L	20.514 ppb	18:59:07
1	B 249.677†	508.8	847.1	19.451 ug/L	19.451 ppb	18:59:07
1	Ba 233.527†	17.2	33.5	0.2716 ug/L	0.2716 ppb	18:59:07
1	Be 313.107†	-4599.5	228.0	0.0836 ug/L	0.0836 ppb	18:58:47
1	Cd 226.502†	-145.5	38.9	0.4372 ug/L	0.4372 ppb	18:59:07
1	Co 228.616†	-52.5	16.9	0.3571 ug/L	0.3571 ppb	18:59:07
1	Cr 267.716†	87.6	17.9	0.1907 ug/L	0.1907 ppb	18:59:07
1	Cu 324.752†	9225.7	205.3	0.5809 ug/L	0.5809 ppb	18:58:47
1	Mn 257.610†	636.1	62.5	0.0674 ug/L	0.0674 ppb	18:59:07
1	Mo 202.031†	13.1	2.4	0.1662 ug/L	0.1662 ppb	18:59:07
1	Ni 231.604†	92.0	11.0	0.2664 ug/L	0.2664 ppb	18:59:07
1	P 214.914†	244.1	-5.9	-3.3538 ug/L	-3.3538 ppb	18:59:07
1	Pb 220.353†	-16.2	29.0	3.4852 ug/L	3.4852 ppb	18:59:07
1	S 181.975 Axial†	40.6	-2.4	-3.2010 ug/L	-3.2010 ppb	18:59:07
1	Sb 206.836†	71.5	36.3	11.701 ug/L	11.701 ppb	18:59:07
1	Se 196.026†	-18.6	5.2	2.8251 ug/L	2.8251 ppb	18:59:07
1	Si 251.611†	546.2	139.6	4.2610 ug/L	4.2610 ppb	18:59:07
1	Sn 189.927†	16.6	15.4	2.7905 ug/L	2.7905 ppb	18:59:07
1	Ti 334.940†	-900.9	118.7	0.1784 ug/L	0.1784 ppb	18:58:47
1	Tl 190.801†	-27.4	17.8	5.7443 ug/L	5.7443 ppb	18:59:07
1	U 409.014†	-2953.6	-143.7	-3.6666 ug/L	-3.6666 ppb	18:58:47
1	V 292.402†	-1430.9	43.1	0.2782 ug/L	0.2782 ppb	18:58:47
1	Zn 213.857†	1092.7	165.9	1.5134 ug/L	1.5134 ppb	18:59:07
1	SiO2†	531.9	131.3	8.5590 ug/L	8.5590 ppb	19:00:13
2	Sc Radial	5546.8	5546.8	105 %		18:57:50
2	Y RADIAL	5846.6	5846.6	105.9 %		18:57:50
2	Al 396.153Radial†	-115.3	-2.7	-2.2194 ug/L	-2.2194 ppb	18:58:10
2	Ca 317.933Radial†	28.5	6.5	10.740 ug/L	10.740 ppb	18:58:10
2	Fe 238.204 Radial†	8.7	-1.8	-17.093 ug/L	-17.093 ppb	18:58:10
2	K 766.490 Radial†	3091.6	278.7	50.321 ug/L	50.321 ppb	18:57:50
2	Mg 279.077 IEC†	1.3	-0.2	-6.4976 ug/L	-6.4976 ppb	18:58:10
2	Na 589.592 Radial†	-603.7	13.5	4.1224 ug/L	4.1224 ppb	18:57:50
2	Sr 421.552†	76.3	5.8	0.0357 ug/L	0.0357 ppb	18:57:50
2	Sc 361.383	994612.2	994612.2	100.26 %		18:59:12
2	Y 371.029	863076.7	863076.7	100.36 %		18:59:12
2	Ag 328.068†	404.1	28.5	0.1198 ug/L	0.1198 ppb	18:59:17
2	As 188.979†	-3.0	33.5	13.756 ug/L	13.756 ppb	18:59:37
2	B 249.677†	487.4	827.2	18.995 ug/L	18.995 ppb	18:59:37
2	Ba 233.527†	13.4	29.8	0.2413 ug/L	0.2413 ppb	18:59:37
2	Be 313.107†	-4496.5	317.8	0.1162 ug/L	0.1162 ppb	18:59:17
2	Cd 226.502†	-134.9	49.0	0.5517 ug/L	0.5517 ppb	18:59:37
2	Co 228.616†	-67.4	1.8	0.0387 ug/L	0.0387 ppb	18:59:37
2	Cr 267.716†	91.6	22.1	0.2352 ug/L	0.2352 ppb	18:59:37
2	Cu 324.752†	9063.2	69.2	0.1969 ug/L	0.1969 ppb	18:59:17
2	Mn 257.610†	600.2	28.5	0.0306 ug/L	0.0306 ppb	18:59:37
2	Mo 202.031†	13.8	3.2	0.2184 ug/L	0.2184 ppb	18:59:37
2	Ni 231.604†	100.8	20.1	0.4858 ug/L	0.4858 ppb	18:59:37

2	P 214.914†	233.4	-15.9	-8.8172 ug/L	-8.8172 ppb	18:59:37
2	Pb 220.353†	-16.2	29.0	3.4827 ug/L	3.4827 ppb	18:59:37
2	S 181.975 Axial†	49.5	6.6	8.8312 ug/L	8.8312 ppb	18:59:37
2	Sb 206.836†	59.6	24.6	7.9394 ug/L	7.9394 ppb	18:59:37
2	Se 196.026†	-9.0	14.8	8.0421 ug/L	8.0421 ppb	18:59:37
2	Si 251.611†	518.4	113.4	3.4624 ug/L	3.4624 ppb	18:59:37
2	Sn 189.927†	11.6	10.5	1.8970 ug/L	1.8970 ppb	18:59:37
2	Ti 334.940†	-960.6	56.6	0.0896 ug/L	0.0896 ppb	18:59:17
2	Tl 190.801†	-33.9	11.3	3.6473 ug/L	3.6473 ppb	18:59:37
2	U 409.014†	-2974.5	-172.8	-4.4106 ug/L	-4.4106 ppb	18:59:17
2	V 292.402†	-1437.3	32.7	0.2095 ug/L	0.2095 ppb	18:59:17
2	Zn 213.857†	1097.0	173.3	1.5800 ug/L	1.5800 ppb	18:59:37
2	SiO2†	551.9	152.8	9.9592 ug/L	9.9592 ppb	19:00:18
3	Sc Radial	5558.2	5558.2	105 %		18:58:15
3	Y RADIAL	5841.7	5841.7	105.8 %		18:58:15
3	Al 396.153Radial†	-101.1	10.9	8.8254 ug/L	8.8254 ppb	18:58:35
3	Ca 317.933Radial†	23.9	2.0	3.3189 ug/L	3.3189 ppb	18:58:35
3	Fe 238.204 Radial†	6.3	-4.1	-39.149 ug/L	-39.149 ppb	18:58:35
3	K 766.490 Radial†	3039.8	223.5	40.369 ug/L	40.369 ppb	18:58:15
3	Mg 279.077 IEC†	5.2	3.5	134.68 ug/L	134.68 ppb	18:58:35
3	Na 589.592 Radial†	-647.5	-26.8	-8.1749 ug/L	-8.1749 ppb	18:58:15
3	Sr 421.552†	81.2	10.4	0.0638 ug/L	0.0638 ppb	18:58:15
3	Sc 361.383	1075568.6	1075568.6	108.43 %		18:59:42
3	Y 371.029	934822.2	934822.2	108.71 %		18:59:42
3	Ag 328.068†	544.4	127.6	0.5321 ug/L	0.5321 ppb	18:59:47
3	As 188.979†	-1.3	35.3	14.502 ug/L	14.502 ppb	19:00:07
3	B 249.677†	491.0	793.9	18.234 ug/L	18.234 ppb	19:00:07
3	Ba 233.527†	-8.9	8.2	0.0665 ug/L	0.0665 ppb	19:00:07
3	Be 313.107†	-4421.3	724.7	0.2650 ug/L	0.2650 ppb	18:59:47
3	Cd 226.502†	-152.7	42.7	0.4835 ug/L	0.4835 ppb	19:00:07
3	Co 228.616†	-66.1	8.1	0.1725 ug/L	0.1725 ppb	19:00:07
3	Cr 267.716†	100.6	23.5	0.2492 ug/L	0.2492 ppb	19:00:07
3	Cu 324.752†	9143.7	-536.9	-1.5173 ug/L	-1.5173 ppb	18:59:47
3	Mn 257.610†	615.8	-2.2	-0.0118 ug/L	-0.0118 ppb	19:00:07
3	Mo 202.031†	15.7	3.9	0.2634 ug/L	0.2634 ppb	19:00:07
3	Ni 231.604†	101.8	13.4	0.3248 ug/L	0.3248 ppb	19:00:07
3	P 214.914†	251.2	-17.0	-9.0459 ug/L	-9.0459 ppb	19:00:07
3	Pb 220.353†	-33.7	14.1	1.6997 ug/L	1.6997 ppb	19:00:07
3	S 181.975 Axial†	48.5	1.9	2.6092 ug/L	2.6092 ppb	19:00:07
3	Sb 206.836†	69.2	29.0	9.3473 ug/L	9.3473 ppb	19:00:07
3	Se 196.026†	-10.4	14.1	7.6110 ug/L	7.6110 ppb	19:00:07
3	Si 251.611†	542.5	96.7	2.9518 ug/L	2.9518 ppb	19:00:07
3	Sn 189.927†	16.4	14.0	2.5388 ug/L	2.5388 ppb	19:00:07
3	Ti 334.940†	-919.3	166.8	0.2429 ug/L	0.2429 ppb	18:59:47
3	Tl 190.801†	-32.1	15.4	4.9902 ug/L	4.9902 ppb	19:00:07
3	U 409.014†	-3081.4	-48.2	-1.2257 ug/L	-1.2257 ppb	18:59:47
3	V 292.402†	-1495.2	87.2	0.5769 ug/L	0.5769 ppb	18:59:47
3	Zn 213.857†	1081.6	76.7	0.7042 ug/L	0.7042 ppb	19:00:07
3	SiO2†	616.4	170.8	11.134 ug/L	11.134 ppb	19:00:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1022535.0	103.08 %	4.632			4.49%
Sc Radial	5548.4	105 %	0.2			0.16%
Y 371.029	887576.3	103.21 %	4.759			4.61%
Y RADIAL	5837.2	105.7 %	0.22			0.21%
Ag 328.068†	72.9	0.3058 ug/L	0.20908	0.3058 ppb	0.20908	68.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.2	2.5430 ug/L	5.67713	2.5430 ppb	5.67713	223.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	39.6	16.257 ug/L	3.7051	16.257 ppb	3.7051	22.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	822.8	18.894 ug/L	0.6147	18.894 ppb	0.6147	3.25%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	23.8	0.1931 ug/L	0.11070	0.1931 ppb	0.11070	57.32%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	423.5	0.1549 ug/L	0.09672	0.1549 ppb	0.09672	62.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.2	5.2748 ug/L	4.79616	5.2748 ppb	4.79616	90.93%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	43.5	0.4908 ug/L	0.05762	0.4908 ppb	0.05762	11.74%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	8.9	0.1894 ug/L	0.15988	0.1894 ppb	0.15988	84.40%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	21.1	0.2250 ug/L	0.03053	0.2250 ppb	0.03053	13.57%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-87.5	-0.2465 ug/L	1.11717	-0.2465 ppb	1.11717	453.24%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-2.4	-22.648 ug/L	14.5422	-22.648 ppb	14.5422	64.21%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	231.2	41.746 ug/L	7.9767	41.746 ppb	7.9767	19.11%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.5	56.559 ug/L	71.7871	56.559 ppb	71.7871	126.92%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	29.6	0.0287 ug/L	0.03964	0.0287 ppb	0.03964	138.03%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	3.2	0.2160 ug/L	0.04869	0.2160 ppb	0.04869	22.54%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-1.0	-0.3006 ug/L	6.83666	-0.3006 ppb	6.83666	>999.9%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	14.8	0.3590 ug/L	0.11363	0.3590 ppb	0.11363	31.65%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-13.0	-7.0723 ug/L	3.22239	-7.0723 ppb	3.22239	45.56%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	24.0	2.8892 ug/L	1.03014	2.8892 ppb	1.03014	35.65%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	2.0	2.7465 ug/L	6.01728	2.7465 ppb	6.01728	219.09%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	30.0	9.6626 ug/L	1.90047	9.6626 ppb	1.90047	19.67%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	11.4	6.1594 ug/L	2.89561	6.1594 ppb	2.89561	47.01%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	116.6	3.5584 ug/L	0.65988	3.5584 ppb	0.65988	18.54%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	13.3	2.4088 ug/L	0.46077	2.4088 ppb	0.46077	19.13%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	11.6	0.0715 ug/L	0.04025	0.0715 ppb	0.04025	56.26%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	114.0	0.1703 ug/L	0.07697	0.1703 ppb	0.07697	45.19%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	14.8	4.7939 ug/L	1.06222	4.7939 ppb	1.06222	22.16%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-121.5	-3.1009 ug/L	1.66610	-3.1009 ppb	1.66610	53.73%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	54.3	0.3549 ug/L	0.19530	0.3549 ppb	0.19530	55.04%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	138.6	1.2659 ug/L	0.48759	1.2659 ppb	0.48759	38.52%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		151.6	9.8841 ug/L	1.28924	9.8841 ppb	1.28924	13.04%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 15
 Sample ID: LRL
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 35
 Date Collected: 1/29/2010 19:02:33
 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	5515.6	5515.6	105 %		19:04:26
1	Y RADIAL	5814.6	5814.6	105.3 %		19:04:26
1	Al 396.153Radial†	-136.9	-24.0	-18.100 ug/L	-18.100 ppb	19:04:46
1	Ca 317.933Radial†	16.2	-5.2	-8.6218 ug/L	-8.6218 ppb	19:04:46
1	Fe 238.204 Radial†	41979.4	40135.2	384850 ug/L	384850 ppb	19:04:26
1	K 766.490 Radial†	2465.8	-303.1	-54.689 ug/L	-54.689 ppb	19:04:26
1	Mg 279.077 IEC†	12.6	10.7	5.5910 ug/L	5.5910 ppb	19:04:46
1	Na 589.592 Radial†	-559.4	52.7	16.048 ug/L	16.048 ppb	19:04:26
1	Sr 421.552†	140.5	67.6	0.4165 ug/L	0.4165 ppb	19:04:26
1	Sc 361.383	981491.3	981491.3	98.942 %		19:05:44
1	Y 371.029	846607.0	846607.0	98.447 %		19:05:44
1	Ag 328.068†	-28016.6	-28690.7	3.0678 ug/L	3.0678 ppb	19:05:44
1	As 188.979†	-197.2	-162.8	23.286 ug/L	23.286 ppb	19:06:04
1	B 249.677†	2859.8	3231.4	11.680 ug/L	11.680 ppb	19:05:44
1	Ba 233.527†	-1980.1	-1984.9	-4.2572 ug/L	-4.2572 ppb	19:05:44
1	Be 313.107†	-4492.5	261.9	0.0958 ug/L	0.0958 ppb	19:05:44
1	Cd 226.502†	3484.8	3705.6	1.8736 ug/L	1.8736 ppb	19:05:44
1	Co 228.616†	207.4	278.7	0.2657 ug/L	0.2657 ppb	19:06:04
1	Cr 267.716†	-518.7	-593.5	1.2596 ug/L	1.2596 ppb	19:05:44
1	Cu 324.752†	2258.1	-6687.8	1.4538 ug/L	1.4538 ppb	19:05:44
1	Mn 257.610†	-36556.0	-37517.0	-4.1707 ug/L	-4.1707 ppb	19:05:44
1	Mo 202.031†	-362.6	-377.0	3.9848 ug/L	3.9848 ppb	19:05:44
1	Ni 231.604†	153.2	74.4	1.7976 ug/L	1.7976 ppb	19:06:04
1	P 214.914†	752.1	511.5	-23.543 ug/L	-23.543 ppb	19:06:04
1	Pb 220.353†	268.9	316.9	1.2711 ug/L	1.2711 ppb	19:06:04
1	S 181.975 Axial†	57.6	15.5	20.814 ug/L	20.814 ppb	19:06:04
1	Sb 206.836†	20.7	-13.9	4.8132 ug/L	4.8132 ppb	19:06:04
1	Se 196.026†	-1931.2	-1928.1	216.26 ug/L	216.26 ppb	19:06:04
1	Si 251.611†	-611.2	-1021.3	-30.880 ug/L	-30.880 ppb	19:05:44
1	Sn 189.927†	-13.6	-14.8	3.7813 ug/L	3.7813 ppb	19:06:04
1	Ti 334.940†	-935.7	69.0	0.0450 ug/L	0.0450 ppb	19:05:44
1	Tl 190.801†	-39.1	5.5	1.4514 ug/L	1.4514 ppb	19:06:04
1	U 409.014†	-350.3	2439.7	18.425 ug/L	18.425 ppb	19:05:44
1	V 292.402†	7682.2	9230.6	3.7745 ug/L	3.7745 ppb	19:05:44
1	Zn 213.857†	5023.7	4156.6	0.6250 ug/L	0.6250 ppb	19:06:04
1	SiO2†	-654.2	-1058.9	-68.356 ug/L	-68.356 ppb	19:07:01
2	Sc Radial	5535.7	5535.7	105 %		19:04:51
2	Y RADIAL	5834.5	5834.5	105.6 %		19:04:51
2	Al 396.153Radial†	-148.9	-34.9	-27.026 ug/L	-27.026 ppb	19:05:11
2	Ca 317.933Radial†	16.8	-4.7	-7.8028 ug/L	-7.8028 ppb	19:05:11
2	Fe 238.204 Radial†	41939.4	39951.3	383080 ug/L	383080 ppb	19:04:51
2	K 766.490 Radial†	2465.3	-312.2	-56.322 ug/L	-56.322 ppb	19:04:51
2	Mg 279.077 IEC†	13.1	11.1	22.027 ug/L	22.027 ppb	19:05:11
2	Na 589.592 Radial†	-634.8	-17.2	-5.2434 ug/L	-5.2434 ppb	19:04:51
2	Sr 421.552†	125.9	53.2	0.3278 ug/L	0.3278 ppb	19:04:51
2	Sc 361.383	968761.6	968761.6	97.659 %		19:06:10
2	Y 371.029	836489.9	836489.9	97.271 %		19:06:10
2	Ag 328.068†	-27674.6	-28712.6	2.4026 ug/L	2.4026 ppb	19:06:10
2	As 188.979†	-210.8	-179.3	16.086 ug/L	16.086 ppb	19:06:30
2	B 249.677†	2810.3	3218.7	11.675 ug/L	11.675 ppb	19:06:10
2	Ba 233.527†	-1925.2	-1954.9	-4.0695 ug/L	-4.0695 ppb	19:06:10
2	Be 313.107†	-4436.5	259.6	0.0944 ug/L	0.0944 ppb	19:06:10
2	Cd 226.502†	3491.1	3758.4	2.6480 ug/L	2.6480 ppb	19:06:10
2	Co 228.616†	200.3	274.2	0.2018 ug/L	0.2018 ppb	19:06:30
2	Cr 267.716†	-577.8	-660.9	0.5126 ug/L	0.5126 ppb	19:06:10
2	Cu 324.752†	2167.4	-6750.8	1.1842 ug/L	1.1842 ppb	19:06:10
2	Mn 257.610†	-36244.8	-37683.9	-4.5330 ug/L	-4.5330 ppb	19:06:10
2	Mo 202.031†	-336.4	-355.1	5.3559 ug/L	5.3559 ppb	19:06:10
2	Ni 231.604†	136.2	59.0	1.4236 ug/L	1.4236 ppb	19:06:30

2	P 214.914†	750.4	519.8	-17.512 ug/L	-17.512 ppb	19:06:30
2	Pb 220.353†	261.9	313.3	1.0086 ug/L	1.0086 ppb	19:06:30
2	S 181.975 Axial†	60.2	18.9	25.334 ug/L	25.334 ppb	19:06:30
2	Sb 206.836†	17.5	-16.9	3.8339 ug/L	3.8339 ppb	19:06:30
2	Se 196.026†	-1945.2	-1968.1	188.55 ug/L	188.55 ppb	19:06:30
2	Si 251.611†	-567.8	-985.1	-29.791 ug/L	-29.791 ppb	19:06:10
2	Sn 189.927†	-13.6	-15.0	3.7207 ug/L	3.7207 ppb	19:06:30
2	Ti 334.940†	-1075.8	-87.0	-0.1912 ug/L	-0.1912 ppb	19:06:10
2	Tl 190.801†	-47.6	-3.7	-1.5518 ug/L	-1.5518 ppb	19:06:30
2	U 409.014†	-441.7	2341.5	16.120 ug/L	16.120 ppb	19:06:10
2	V 292.402†	7455.7	9100.6	3.2031 ug/L	3.2031 ppb	19:06:10
2	Zn 213.857†	5008.4	4207.7	1.2644 ug/L	1.2644 ppb	19:06:30
2	SiO2†	-586.4	-998.2	-64.437 ug/L	-64.437 ppb	19:07:06
3	Sc Radial	5465.5	5465.5	104 %		19:05:16
3	Y RADIAL	5778.6	5778.6	104.6 %		19:05:16
3	Al 396.153Radial†	-140.9	-29.1	-22.133 ug/L	-22.133 ppb	19:05:36
3	Ca 317.933Radial†	13.4	-7.7	-12.896 ug/L	-12.896 ppb	19:05:36
3	Fe 238.204 Radial†	41727.1	40259.6	386040 ug/L	386040 ppb	19:05:16
3	K 766.490 Radial†	2493.8	-254.5	-45.897 ug/L	-45.897 ppb	19:05:16
3	Mg 279.077 IEC†	13.7	11.8	47.196 ug/L	47.196 ppb	19:05:36
3	Na 589.592 Radial†	-587.7	20.5	6.2288 ug/L	6.2288 ppb	19:05:16
3	Sr 421.552†	161.8	89.4	0.5507 ug/L	0.5507 ppb	19:05:16
3	Sc 361.383	971914.8	971914.8	97.977 %		19:06:36
3	Y 371.029	839745.9	839745.9	97.649 %		19:06:36
3	Ag 328.068†	-27746.9	-28694.4	3.4363 ug/L	3.4363 ppb	19:06:36
3	As 188.979†	-208.9	-176.7	17.863 ug/L	17.863 ppb	19:06:56
3	B 249.677†	2704.2	3101.2	8.4957 ug/L	8.4957 ppb	19:06:36
3	Ba 233.527†	-1911.2	-1934.2	-3.8120 ug/L	-3.8120 ppb	19:06:36
3	Be 313.107†	-4405.5	305.9	0.1114 ug/L	0.1114 ppb	19:06:36
3	Cd 226.502†	3451.4	3706.3	1.7577 ug/L	1.7577 ppb	19:06:36
3	Co 228.616†	195.8	268.9	0.0404 ug/L	0.0404 ppb	19:06:56
3	Cr 267.716†	-576.6	-657.7	0.6028 ug/L	0.6028 ppb	19:06:36
3	Cu 324.752†	2208.8	-6715.7	1.4393 ug/L	1.4393 ppb	19:06:36
3	Mn 257.610†	-36343.5	-37664.2	-4.2201 ug/L	-4.2201 ppb	19:06:36
3	Mo 202.031†	-382.4	-400.8	2.4417 ug/L	2.4417 ppb	19:06:36
3	Ni 231.604†	147.7	70.3	1.6971 ug/L	1.6971 ppb	19:06:56
3	P 214.914†	742.5	509.2	-25.767 ug/L	-25.767 ppb	19:06:56
3	Pb 220.353†	286.4	337.4	3.6208 ug/L	3.6208 ppb	19:06:56
3	S 181.975 Axial†	44.6	2.8	3.6998 ug/L	3.6998 ppb	19:06:56
3	Sb 206.836†	32.3	-1.9	8.6543 ug/L	8.6543 ppb	19:06:56
3	Se 196.026†	-1950.9	-1967.5	198.62 ug/L	198.62 ppb	19:06:56
3	Si 251.611†	-507.5	-921.6	-27.814 ug/L	-27.814 ppb	19:06:36
3	Sn 189.927†	-21.2	-22.7	2.3746 ug/L	2.3746 ppb	19:06:56
3	Ti 334.940†	-1059.0	-66.2	-0.1630 ug/L	-0.1630 ppb	19:06:36
3	Tl 190.801†	-37.7	6.6	1.7849 ug/L	1.7849 ppb	19:06:56
3	U 409.014†	-420.5	2364.6	16.373 ug/L	16.373 ppb	19:06:36
3	V 292.402†	7465.6	9086.0	2.6347 ug/L	2.6347 ppb	19:06:36
3	Zn 213.857†	5025.0	4208.0	0.9786 ug/L	0.9786 ppb	19:06:56
3	SiO2†	-609.2	-1019.5	-65.744 ug/L	-65.744 ppb	19:07:11

Mean Data: LRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	974055.9	98.193 %	%	0.6683			0.68%
Sc Radial	5505.6	104 %	%	0.07			0.66%
Y 371.029	840947.6	97.789 %	%	0.6006			0.61%
Y RADIAL	5809.2	105.2 %	%	0.51			0.49%
Ag 328.068†	-28699.2	2.9689 ug/L	ug/L	0.52390	2.9689 ppb	0.52390	17.65%
Al 396.153Radial†	-29.3	-22.420 ug/L	ug/L	4.4697	-22.420 ppb	4.4697	19.94%
As 188.979†	-172.9	19.078 ug/L	ug/L	3.7503	19.078 ppb	3.7503	19.66%
B 249.677†	3183.8	10.617 ug/L	ug/L	1.8368	10.617 ppb	1.8368	17.30%
Ba 233.527†	-1958.0	-4.0462 ug/L	ug/L	0.22352	-4.0462 ppb	0.22352	5.52%
Be 313.107†	275.8	0.1005 ug/L	ug/L	0.00943	0.1005 ppb	0.00943	9.38%
Ca 317.933Radial†	-5.9	-9.7736 ug/L	ug/L	2.73499	-9.7736 ppb	2.73499	27.98%
Cd 226.502†	3723.4	2.0931 ug/L	ug/L	0.48406	2.0931 ppb	0.48406	23.13%
Co 228.616†	273.9	0.1693 ug/L	ug/L	0.11612	0.1693 ppb	0.11612	68.60%
Cr 267.716†	-637.4	0.7917 ug/L	ug/L	0.40772	0.7917 ppb	0.40772	51.50%
Cu 324.752†	-6718.1	1.3591 ug/L	ug/L	0.15165	1.3591 ppb	0.15165	11.16%
Fe 238.204 Radial†	40115.3	384660 ug/L	ug/L	1487.3	384660 ppb	1487.3	0.39%
K 766.490 Radial†	-289.9	-52.302 ug/L	ug/L	5.6075	-52.302 ppb	5.6075	10.72%

Mg 279.077 IEC†	11.2	24.938 ug/L	20.9550	24.938 ppb	20.9550	84.03%
Mn 257.610†	-37621.7	-4.3080 ug/L	0.19649	-4.3080 ppb	0.19649	4.56%
Mo 202.031†	-377.6	3.9275 ug/L	1.45791	3.9275 ppb	1.45791	37.12%
Na 589.592 Radial†	18.6	5.6779 ug/L	10.65657	5.6779 ppb	10.65657	187.69%
Ni 231.604†	67.9	1.6394 ug/L	0.19360	1.6394 ppb	0.19360	11.81%
P 214.914†	513.5	-22.274 ug/L	4.2714	-22.274 ppb	4.2714	19.18%
Pb 220.353†	322.5	1.9669 ug/L	1.43839	1.9669 ppb	1.43839	73.13%
S 181.975 Axial†	12.4	16.616 ug/L	11.4117	16.616 ppb	11.4117	68.68%
Sb 206.836†	-10.9	5.7671 ug/L	2.54783	5.7671 ppb	2.54783	44.18%
Se 196.026†	-1954.6	201.14 ug/L	14.030	201.14 ppb	14.030	6.98%
Si 251.611†	-976.0	-29.495 ug/L	1.5545	-29.495 ppb	1.5545	5.27%
Sn 189.927†	-17.5	3.2922 ug/L	0.79524	3.2922 ppb	0.79524	24.15%
Sr 421.552†	70.1	0.4317 ug/L	0.11220	0.4317 ppb	0.11220	25.99%
Ti 334.940†	-28.1	-0.1031 ug/L	0.12903	-0.1031 ppb	0.12903	125.19%
Tl 190.801†	2.8	0.5615 ug/L	1.83775	0.5615 ppb	1.83775	327.31%
U 409.014†	2382.0	16.972 ug/L	1.2639	16.972 ppb	1.2639	7.45%
V 292.402†	9139.1	3.2041 ug/L	0.56992	3.2041 ppb	0.56992	17.79%
Zn 213.857†	4190.8	0.9560 ug/L	0.32032	0.9560 ppb	0.32032	33.51%
SiO2†	-1025.5	-66.179 ug/L	1.9955	-66.179 ppb	1.9955	3.02%

Sequence No.: 16
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 19:09:23
 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	5543.8	5543.8	105 %		19:11:15
1	Y RADIAL	5796.6	5796.6	105.0 %		19:11:15
1	Al 396.153Radial†	6252.3	6055.7	4867.7 ug/L	4867.7 ppb	19:11:15
1	Ca 317.933Radial†	3193.2	3017.5	5023.1 ug/L	5023.1 ppb	19:11:35
1	Fe 238.204 Radial†	572.0	534.2	5136.9 ug/L	5136.9 ppb	19:11:35
1	K 766.490 Radial†	32174.9	27951.8	5041.0 ug/L	5041.0 ppb	19:11:15
1	Mg 279.077 IEC†	144.3	136.0	5191.0 ug/L	5191.0 ppb	19:11:35
1	Na 589.592 Radial†	33917.3	32858.5	10007 ug/L	10007 ppb	19:11:15
1	Sr 421.552†	85543.1	81323.7	500.86 ug/L	500.86 ppb	19:11:15
1	Sc 361.383	999157.6	999157.6	100.72 %		19:12:32
1	Y 371.029	856193.9	856193.9	99.562 %		19:12:32
1	Ag 328.068†	118960.2	117731.7	502.83 ug/L	502.83 ppb	19:12:37
1	As 188.979†	1189.8	1217.7	504.84 ug/L	504.84 ppb	19:12:57
1	B 249.677†	21831.9	22016.3	503.22 ug/L	503.22 ppb	19:12:37
1	Ba 233.527†	62242.8	61812.4	502.58 ug/L	502.58 ppb	19:12:37
1	Be 313.107†	1400583.5	1395332.6	510.23 ug/L	510.23 ppb	19:12:32
1	Cd 226.502†	44904.4	44765.6	502.59 ug/L	502.59 ppb	19:12:37
1	Co 228.616†	23927.4	23824.8	503.63 ug/L	503.63 ppb	19:12:37
1	Cr 267.716†	47868.3	47455.4	502.73 ug/L	502.73 ppb	19:12:37
1	Cu 324.752†	187027.9	176715.3	498.91 ug/L	498.91 ppb	19:12:37
1	Mn 257.610†	456818.9	452969.8	509.37 ug/L	509.37 ppb	19:12:32
1	Mo 202.031†	7301.1	7238.1	497.52 ug/L	497.52 ppb	19:12:57
1	Ni 231.604†	21043.5	20812.0	503.44 ug/L	503.44 ppb	19:12:37
1	P 214.914†	4740.6	4457.9	2366.6 ug/L	2366.6 ppb	19:12:57
1	Pb 220.353†	4141.3	4156.7	501.36 ug/L	501.36 ppb	19:12:57
1	S 181.975 Axial†	793.8	745.4	1000.1 ug/L	1000.1 ppb	19:12:57
1	Sb 206.836†	1582.6	1536.3	511.44 ug/L	511.44 ppb	19:12:57
1	Se 196.026†	884.4	901.7	512.79 ug/L	512.79 ppb	19:12:57
1	Si 251.611†	82654.0	81657.1	2488.3 ug/L	2488.3 ppb	19:12:37
1	Sn 189.927†	2757.7	2736.8	497.28 ug/L	497.28 ppb	19:12:57
1	Ti 334.940†	325347.6	324027.0	491.32 ug/L	491.32 ppb	19:12:37
1	Tl 190.801†	1504.4	1538.6	501.27 ug/L	501.27 ppb	19:12:57
1	U 409.014†	16957.5	19629.6	499.42 ug/L	499.42 ppb	19:12:37
1	V 292.402†	75926.1	76847.3	506.66 ug/L	506.66 ppb	19:12:37
1	Zn 213.857†	56289.0	54964.1	497.35 ug/L	497.35 ppb	19:12:37
1	SiO2†	82423.7	81434.4	5297.6 ug/L	5297.6 ppb	19:14:05
2	Sc Radial	5453.9	5453.9	103 %		19:11:40
2	Y RADIAL	5692.4	5692.4	103.1 %		19:11:40
2	Al 396.153Radial†	6116.3	6022.2	4840.2 ug/L	4840.2 ppb	19:11:40
2	Ca 317.933Radial†	3126.4	3002.9	4998.8 ug/L	4998.8 ppb	19:12:00
2	Fe 238.204 Radial†	557.9	529.5	5092.7 ug/L	5092.7 ppb	19:12:00
2	K 766.490 Radial†	31676.8	27974.6	5045.1 ug/L	5045.1 ppb	19:11:40
2	Mg 279.077 IEC†	141.9	135.9	5187.0 ug/L	5187.0 ppb	19:12:00
2	Na 589.592 Radial†	33363.3	32854.5	10006 ug/L	10006 ppb	19:11:40
2	Sr 421.552†	83960.8	81134.8	499.70 ug/L	499.70 ppb	19:11:40
2	Sc 361.383	984901.0	984901.0	99.286 %		19:13:03
2	Y 371.029	845375.3	845375.3	98.304 %		19:13:03
2	Ag 328.068†	119244.1	119727.4	511.31 ug/L	511.31 ppb	19:13:08
2	As 188.979†	1193.5	1238.6	513.44 ug/L	513.44 ppb	19:13:28
2	B 249.677†	21881.9	22380.4	511.57 ug/L	511.57 ppb	19:13:08
2	Ba 233.527†	62357.1	62822.1	510.79 ug/L	510.79 ppb	19:13:08
2	Be 313.107†	1379603.3	1394329.7	509.88 ug/L	509.88 ppb	19:13:03
2	Cd 226.502†	44881.1	45387.5	509.59 ug/L	509.59 ppb	19:13:08
2	Co 228.616†	23917.0	24158.1	510.68 ug/L	510.68 ppb	19:13:08
2	Cr 267.716†	47885.1	48160.3	510.20 ug/L	510.20 ppb	19:13:08
2	Cu 324.752†	187490.9	179869.5	507.81 ug/L	507.81 ppb	19:13:08
2	Mn 257.610†	449759.8	452424.9	508.75 ug/L	508.75 ppb	19:13:03
2	Mo 202.031†	7326.4	7368.6	506.47 ug/L	506.47 ppb	19:13:28
2	Ni 231.604†	21077.2	21148.4	511.58 ug/L	511.58 ppb	19:13:08

2	P 214.914†	4763.0	4548.5	2415.0 ug/L	2415.0 ppb	19:13:28
2	Pb 220.353†	4134.5	4209.4	507.70 ug/L	507.70 ppb	19:13:28
2	S 181.975 Axial†	793.5	756.5	1015.0 ug/L	1015.0 ppb	19:13:28
2	Sb 206.836†	1594.3	1570.9	522.84 ug/L	522.84 ppb	19:13:28
2	Se 196.026†	895.7	925.9	525.90 ug/L	525.90 ppb	19:13:28
2	Si 251.611†	82822.4	83014.5	2529.6 ug/L	2529.6 ppb	19:13:08
2	Sn 189.927†	2756.7	2775.5	504.29 ug/L	504.29 ppb	19:13:28
2	Ti 334.940†	326377.4	329739.8	499.97 ug/L	499.97 ppb	19:13:08
2	Tl 190.801†	1521.2	1577.2	513.78 ug/L	513.78 ppb	19:13:28
2	U 409.014†	17061.7	19978.2	508.30 ug/L	508.30 ppb	19:13:08
2	V 292.402†	76134.4	78148.3	515.26 ug/L	515.26 ppb	19:13:08
2	Zn 213.857†	56315.4	55799.7	504.91 ug/L	504.91 ppb	19:13:08
2	SiO2†	82553.2	82749.4	5383.2 ug/L	5383.2 ppb	19:14:10
3	Sc Radial	4566.1	4566.1	86.6 %		19:12:05
3	Y RADIAL	4758.4	4758.4	86.16 %		19:12:05
3	Al 396.153Radial†	6149.1	7210.2	5800.1 ug/L	5800.1 ppb	19:12:05
3	Ca 317.933Radial†	3188.6	3662.6	6097.0 ug/L	6097.0 ppb	19:12:25
3	Fe 238.204 Radial†	573.8	652.7	6273.9 ug/L	6273.9 ppb	19:12:25
3	K 766.490 Radial†	31549.1	33783.2	6093.0 ug/L	6093.0 ppb	19:12:05
3	Mg 279.077 IEC†	144.4	165.4	6315.3 ug/L	6315.3 ppb	19:12:25
3	Na 589.592 Radial†	32904.9	38598.3	11755 ug/L	11755 ppb	19:12:05
3	Sr 421.552†	83270.9	96125.1	592.02 ug/L	592.02 ppb	19:12:05
3	Sc 361.383	995079.2	995079.2	100.31 %		19:13:34
3	Y 371.029	853861.4	853861.4	99.291 %		19:13:34
3	Ag 328.068†	119238.5	118493.2	506.43 ug/L	506.43 ppb	19:13:39
3	As 188.979†	1200.1	1232.9	511.34 ug/L	511.34 ppb	19:13:59
3	B 249.677†	21937.6	22210.5	507.49 ug/L	507.49 ppb	19:13:39
3	Ba 233.527†	62293.7	62116.5	505.09 ug/L	505.09 ppb	19:13:39
3	Be 313.107†	1397376.6	1397834.8	511.15 ug/L	511.15 ppb	19:13:34
3	Cd 226.502†	45102.0	45145.3	506.74 ug/L	506.74 ppb	19:13:39
3	Co 228.616†	23919.5	23914.2	505.51 ug/L	505.51 ppb	19:13:39
3	Cr 267.716†	48046.7	47828.1	506.70 ug/L	506.70 ppb	19:13:39
3	Cu 324.752†	187205.7	177653.7	501.62 ug/L	501.62 ppb	19:13:39
3	Mn 257.610†	454633.8	452650.3	509.08 ug/L	509.08 ppb	19:13:34
3	Mo 202.031†	7330.8	7297.4	501.69 ug/L	501.69 ppb	19:13:59
3	Ni 231.604†	21178.1	21031.8	508.76 ug/L	508.76 ppb	19:13:39
3	P 214.914†	4758.9	4495.5	2386.2 ug/L	2386.2 ppb	19:13:59
3	Pb 220.353†	4164.7	4196.9	506.30 ug/L	506.30 ppb	19:13:59
3	S 181.975 Axial†	802.5	757.2	1015.9 ug/L	1015.9 ppb	19:13:59
3	Sb 206.836†	1591.7	1551.9	516.57 ug/L	516.57 ppb	19:13:59
3	Se 196.026†	891.4	912.3	522.42 ug/L	522.42 ppb	19:13:59
3	Si 251.611†	82801.2	82140.1	2503.0 ug/L	2503.0 ppb	19:13:39
3	Sn 189.927†	2762.2	2752.5	500.32 ug/L	500.32 ppb	19:13:59
3	Ti 334.940†	325994.5	325995.7	494.35 ug/L	494.35 ppb	19:13:39
3	Tl 190.801†	1528.2	1568.5	510.94 ug/L	510.94 ppb	19:13:59
3	U 409.014†	17042.7	19783.5	503.21 ug/L	503.21 ppb	19:13:39
3	V 292.402†	76324.8	77553.8	511.17 ug/L	511.17 ppb	19:13:39
3	Zn 213.857†	56568.0	55471.4	501.83 ug/L	501.83 ppb	19:13:39
3	SiO2†	81777.9	81126.0	5277.4 ug/L	5277.4 ppb	19:14:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	993045.9	100.11 %	0.740			0.74%
Sc Radial	5187.9	98.4 %	10.24			10.42%
Y 371.029	851810.2	99.052 %	0.6621			0.67%
Y RADIAL	5415.8	98.06 %	10.351			10.56%
Ag 328.068†	118650.8	506.86 ug/L	4.257	506.86 ppb	4.257	0.84%
QC value within limits for Ag 328.068 Recovery = 101.37%						
Al 396.153Radial†	6429.3	5169.3 ug/L	546.45	5169.3 ppb	546.45	10.57%
QC value within limits for Al 396.153Radial Recovery = 103.39%						
As 188.979†	1229.7	509.87 ug/L	4.486	509.87 ppb	4.486	0.88%
QC value within limits for As 188.979 Recovery = 101.97%						
B 249.677†	22202.4	507.43 ug/L	4.175	507.43 ppb	4.175	0.82%
QC value within limits for B 249.677 Recovery = 101.49%						
Ba 233.527†	62250.3	506.16 ug/L	4.205	506.16 ppb	4.205	0.83%
QC value within limits for Ba 233.527 Recovery = 101.23%						
Be 313.107†	1395832.4	510.42 ug/L	0.654	510.42 ppb	0.654	0.13%
QC value within limits for Be 313.107 Recovery = 102.08%						
Ca 317.933Radial†	3227.7	5373.0 ug/L	627.15	5373.0 ppb	627.15	11.67%

QC value within limits for Ca 317.933 Radial Recovery = 107.46%

Cd 226.502†	45099.5	506.31 ug/L	3.518	506.31 ppb	3.518	0.69%
QC value within limits for Cd 226.502 Recovery = 101.26%						
Co 228.616†	23965.7	506.61 ug/L	3.651	506.61 ppb	3.651	0.72%
QC value within limits for Co 228.616 Recovery = 101.32%						
Cr 267.716†	47814.6	506.54 ug/L	3.735	506.54 ppb	3.735	0.74%
QC value within limits for Cr 267.716 Recovery = 101.31%						
Cu 324.752†	178079.5	502.78 ug/L	4.561	502.78 ppb	4.561	0.91%
QC value within limits for Cu 324.752 Recovery = 100.56%						
Fe 238.204 Radial†	572.1	5501.2 ug/L	669.56	5501.2 ppb	669.56	12.17%
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 110.02%						
K 766.490 Radial†	29903.2	5393.1 ug/L	606.18	5393.1 ppb	606.18	11.24%
QC value within limits for K 766.490 Radial Recovery = 107.86%						
Mg 279.077 IEC†	145.8	5564.4 ug/L	650.28	5564.4 ppb	650.28	11.69%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 111.29%						
Mn 257.610†	452681.6	509.07 ug/L	0.308	509.07 ppb	0.308	0.06%
QC value within limits for Mn 257.610 Recovery = 101.81%						
Mo 202.031†	7301.4	501.89 ug/L	4.481	501.89 ppb	4.481	0.89%
QC value within limits for Mo 202.031 Recovery = 100.38%						
Na 589.592 Radial†	34770.4	10589 ug/L	1009.6	10589 ppb	1009.6	9.53%
QC value within limits for Na 589.592 Radial Recovery = 105.89%						
Ni 231.604†	20997.4	507.93 ug/L	4.132	507.93 ppb	4.132	0.81%
QC value within limits for Ni 231.604 Recovery = 101.59%						
P 214.914†	4500.6	2389.3 ug/L	24.36	2389.3 ppb	24.36	1.02%
QC value within limits for P 214.914 Recovery = 95.57%						
Pb 220.353†	4187.7	505.12 ug/L	3.332	505.12 ppb	3.332	0.66%
QC value within limits for Pb 220.353 Recovery = 101.02%						
S 181.975 Axial†	753.0	1010.3 ug/L	8.84	1010.3 ppb	8.84	0.88%
QC value within limits for S 181.975 Axial Recovery = 101.03%						
Sb 206.836†	1553.0	516.95 ug/L	5.708	516.95 ppb	5.708	1.10%
QC value within limits for Sb 206.836 Recovery = 103.39%						
Se 196.026†	913.3	520.37 ug/L	6.794	520.37 ppb	6.794	1.31%
QC value within limits for Se 196.026 Recovery = 104.07%						
Si 251.611†	82270.6	2507.0 ug/L	20.96	2507.0 ppb	20.96	0.84%
QC value within limits for Si 251.611 Recovery = 100.28%						
Sn 189.927†	2754.9	500.63 ug/L	3.516	500.63 ppb	3.516	0.70%
QC value within limits for Sn 189.927 Recovery = 100.13%						
Sr 421.552†	86194.5	530.86 ug/L	52.969	530.86 ppb	52.969	9.98%
QC value within limits for Sr 421.552 Recovery = 106.17%						
Ti 334.940†	326587.5	495.22 ug/L	4.392	495.22 ppb	4.392	0.89%
QC value within limits for Ti 334.940 Recovery = 99.04%						
Tl 190.801†	1561.4	508.67 ug/L	6.559	508.67 ppb	6.559	1.29%
QC value within limits for Tl 190.801 Recovery = 101.73%						
U 409.014†	19797.1	503.64 ug/L	4.460	503.64 ppb	4.460	0.89%
QC value within limits for U 409.014 Recovery = 100.73%						
V 292.402†	77516.5	511.03 ug/L	4.303	511.03 ppb	4.303	0.84%
QC value within limits for V 292.402 Recovery = 102.21%						
Zn 213.857†	55411.7	501.36 ug/L	3.805	501.36 ppb	3.805	0.76%
QC value within limits for Zn 213.857 Recovery = 100.27%						
SiO2†	81769.9	5319.4 ug/L	56.13	5319.4 ppb	56.13	1.06%
QC value within limits for SiO2 Recovery = 99.47%						

QC Failed. Continue with analysis.

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 19:16:25

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	5541.9	5541.9	105 %		19:18:18
1	Y RADIAL	5814.3	5814.3	105.3 %		19:18:18
1	Al 396.153Radial†	-109.5	2.7	2.1350 ug/L	2.1350 ppb	19:18:38
1	Ca 317.933Radial†	23.3	1.5	2.4358 ug/L	2.4358 ppb	19:18:38
1	Fe 238.204 Radial†	8.9	-1.6	-15.701 ug/L	-15.701 ppb	19:18:38
1	K 766.490 Radial†	2847.1	48.6	8.7934 ug/L	8.7934 ppb	19:18:18
1	Mg 279.077 IEC†	0.8	-0.6	-22.295 ug/L	-22.295 ppb	19:18:38
1	Na 589.592 Radial†	-726.1	-103.5	-31.512 ug/L	-31.512 ppb	19:18:18
1	Sr 421.552†	71.9	1.7	0.0104 ug/L	0.0104 ppb	19:18:18
1	Sc 361.383	978016.0	978016.0	98.592 %		19:19:35
1	Y 371.029	849275.6	849275.6	98.758 %		19:19:35
1	Ag 328.068†	386.1	17.1	0.0684 ug/L	0.0684 ppb	19:19:40
1	As 188.979†	-27.4	8.7	3.5608 ug/L	3.5608 ppb	19:20:00
1	B 249.677†	175.9	519.5	11.931 ug/L	11.931 ppb	19:20:00
1	Ba 233.527†	-3.3	13.1	0.1060 ug/L	0.1060 ppb	19:20:00
1	Be 313.107†	-4550.6	186.9	0.0682 ug/L	0.0682 ppb	19:19:40
1	Cd 226.502†	-179.8	1.2	0.0147 ug/L	0.0147 ppb	19:20:00
1	Co 228.616†	-68.9	-0.9	-0.0168 ug/L	-0.0168 ppb	19:20:00
1	Cr 267.716†	73.4	5.1	0.0545 ug/L	0.0545 ppb	19:20:00
1	Cu 324.752†	8995.2	153.5	0.4328 ug/L	0.4328 ppb	19:19:40
1	Mn 257.610†	592.1	30.4	0.0335 ug/L	0.0335 ppb	19:20:00
1	Mo 202.031†	17.6	7.2	0.4955 ug/L	0.4955 ppb	19:20:00
1	Ni 231.604†	91.6	12.5	0.3026 ug/L	0.3026 ppb	19:20:00
1	P 214.914†	237.8	-7.5	-4.2047 ug/L	-4.2047 ppb	19:20:00
1	Pb 220.353†	-18.2	26.7	3.2148 ug/L	3.2148 ppb	19:20:00
1	S 181.975 Axial†	41.4	-0.8	-1.0240 ug/L	-1.0240 ppb	19:20:00
1	Sb 206.836†	39.0	4.7	1.5561 ug/L	1.5561 ppb	19:20:00
1	Se 196.026†	-16.0	7.4	4.0309 ug/L	4.0309 ppb	19:20:00
1	Si 251.611†	464.5	67.5	2.0551 ug/L	2.0551 ppb	19:20:00
1	Sn 189.927†	10.6	9.6	1.7498 ug/L	1.7498 ppb	19:20:00
1	Ti 334.940†	-988.6	11.9	0.0203 ug/L	0.0203 ppb	19:19:40
1	Tl 190.801†	-47.6	-3.3	-1.0624 ug/L	-1.0624 ppb	19:20:00
1	U 409.014†	-2764.4	-10.1	-0.2552 ug/L	-0.2552 ppb	19:19:35
1	V 292.402†	-1416.9	29.1	0.1978 ug/L	0.1978 ppb	19:19:40
1	Zn 213.857†	990.4	83.7	0.7633 ug/L	0.7633 ppb	19:20:00
1	SiO2†	468.5	77.5	5.0435 ug/L	5.0435 ppb	19:21:21
2	Sc Radial	5675.1	5675.1	108 %		19:18:43
2	Y RADIAL	5949.4	5949.4	107.7 %		19:18:43
2	Al 396.153Radial†	-122.0	-6.5	-5.2290 ug/L	-5.2290 ppb	19:19:03
2	Ca 317.933Radial†	23.1	0.8	1.3128 ug/L	1.3128 ppb	19:19:03
2	Fe 238.204 Radial†	6.8	-3.7	-35.722 ug/L	-35.722 ppb	19:19:03
2	K 766.490 Radial†	2900.0	34.2	6.1746 ug/L	6.1746 ppb	19:18:43
2	Mg 279.077 IEC†	0.5	-0.9	-32.521 ug/L	-32.521 ppb	19:19:03
2	Na 589.592 Radial†	-684.6	-48.7	-14.831 ug/L	-14.831 ppb	19:18:43
2	Sr 421.552†	54.9	-15.7	-0.0967 ug/L	-0.0967 ppb	19:18:43
2	Sc 361.383	990539.1	990539.1	99.854 %		19:20:05
2	Y 371.029	860589.5	860589.5	100.07 %		19:20:05
2	Ag 328.068†	445.6	71.8	0.2968 ug/L	0.2968 ppb	19:20:10
2	As 188.979†	-29.0	7.5	3.0669 ug/L	3.0669 ppb	19:20:30
2	B 249.677†	173.0	514.4	11.816 ug/L	11.816 ppb	19:20:30
2	Ba 233.527†	20.2	36.7	0.2967 ug/L	0.2967 ppb	19:20:30
2	Be 313.107†	-4480.0	315.9	0.1156 ug/L	0.1156 ppb	19:20:10
2	Cd 226.502†	-165.8	17.5	0.1996 ug/L	0.1996 ppb	19:20:30
2	Co 228.616†	-73.4	-4.4	-0.0934 ug/L	-0.0934 ppb	19:20:30
2	Cr 267.716†	82.0	12.9	0.1371 ug/L	0.1371 ppb	19:20:30
2	Cu 324.752†	8883.2	-73.9	-0.2084 ug/L	-0.2084 ppb	19:20:10
2	Mn 257.610†	574.6	5.3	0.0037 ug/L	0.0037 ppb	19:20:30
2	Mo 202.031†	8.3	-2.3	-0.1585 ug/L	-0.1585 ppb	19:20:30
2	Ni 231.604†	94.9	14.6	0.3539 ug/L	0.3539 ppb	19:20:30

2	P 214.914†	239.1	-9.2	-5.0196 ug/L	-5.0196 ppb	19:20:30
2	Pb 220.353†	-17.5	27.7	3.3269 ug/L	3.3269 ppb	19:20:30
2	S 181.975 Axial†	48.1	5.4	7.2741 ug/L	7.2741 ppb	19:20:30
2	Sb 206.836†	47.8	13.0	4.1906 ug/L	4.1906 ppb	19:20:30
2	Se 196.026†	-15.0	8.7	4.6462 ug/L	4.6462 ppb	19:20:30
2	Si 251.611†	459.5	56.5	1.7292 ug/L	1.7292 ppb	19:20:30
2	Sn 189.927†	3.6	2.5	0.4442 ug/L	0.4442 ppb	19:20:30
2	Ti 334.940†	-921.4	91.9	0.1438 ug/L	0.1438 ppb	19:20:10
2	Tl 190.801†	-38.6	6.4	2.0799 ug/L	2.0799 ppb	19:20:30
2	U 409.014†	-2939.9	-150.4	-3.8361 ug/L	-3.8361 ppb	19:20:05
2	V 292.402†	-1438.0	26.1	0.1648 ug/L	0.1648 ppb	19:20:10
2	Zn 213.857†	989.6	70.3	0.6430 ug/L	0.6430 ppb	19:20:30
2	SiO2†	482.8	85.8	5.6013 ug/L	5.6013 ppb	19:21:41
3	Sc Radial	5644.9	5644.9	107 %		19:19:08
3	Y RADIAL	5923.3	5923.3	107.2 %		19:19:08
3	Al 396.153Radial†	-117.9	-3.3	-2.6307 ug/L	-2.6307 ppb	19:19:28
3	Ca 317.933Radial†	23.1	0.9	1.4199 ug/L	1.4199 ppb	19:19:28
3	Fe 238.204 Radial†	11.5	0.7	6.8092 ug/L	6.8092 ppb	19:19:28
3	K 766.490 Radial†	2807.7	-37.6	-6.7873 ug/L	-6.7873 ppb	19:19:08
3	Mg 279.077 IEC†	1.2	-0.3	-9.6432 ug/L	-9.6432 ppb	19:19:28
3	Na 589.592 Radial†	-694.5	-61.3	-18.671 ug/L	-18.671 ppb	19:19:08
3	Sr 421.552†	100.7	27.3	0.1684 ug/L	0.1684 ppb	19:19:08
3	Sc 361.383	998143.6	998143.6	100.62 %		19:20:36
3	Y 371.029	866314.2	866314.2	100.74 %		19:20:36
3	Ag 328.068†	425.6	48.5	0.2104 ug/L	0.2104 ppb	19:20:41
3	As 188.979†	-21.5	15.1	6.2138 ug/L	6.2138 ppb	19:21:01
3	B 249.677†	145.8	486.0	11.157 ug/L	11.157 ppb	19:21:01
3	Ba 233.527†	2.5	18.8	0.1528 ug/L	0.1528 ppb	19:21:01
3	Be 313.107†	-4551.3	279.2	0.1022 ug/L	0.1022 ppb	19:20:41
3	Cd 226.502†	-169.3	15.3	0.1708 ug/L	0.1708 ppb	19:21:01
3	Co 228.616†	-73.2	-3.7	-0.0784 ug/L	-0.0784 ppb	19:21:01
3	Cr 267.716†	83.1	13.3	0.1426 ug/L	0.1426 ppb	19:21:01
3	Cu 324.752†	8920.4	-104.7	-0.2932 ug/L	-0.2932 ppb	19:20:41
3	Mn 257.610†	564.5	-9.1	-0.0092 ug/L	-0.0092 ppb	19:21:01
3	Mo 202.031†	9.1	-1.6	-0.1063 ug/L	-0.1063 ppb	19:21:01
3	Ni 231.604†	83.4	2.4	0.0584 ug/L	0.0584 ppb	19:21:01
3	P 214.914†	248.8	-1.4	-0.6885 ug/L	-0.6885 ppb	19:21:01
3	Pb 220.353†	-8.1	37.1	4.4571 ug/L	4.4571 ppb	19:21:01
3	S 181.975 Axial†	37.3	-5.7	-7.6849 ug/L	-7.6849 ppb	19:21:01
3	Sb 206.836†	37.0	1.9	0.6343 ug/L	0.6343 ppb	19:21:01
3	Se 196.026†	-28.6	-4.7	-2.5432 ug/L	-2.5432 ppb	19:21:01
3	Si 251.611†	473.5	66.9	2.0464 ug/L	2.0464 ppb	19:21:01
3	Sn 189.927†	14.8	13.6	2.4683 ug/L	2.4683 ppb	19:21:01
3	Ti 334.940†	-923.4	97.0	0.1496 ug/L	0.1496 ppb	19:20:41
3	Tl 190.801†	-45.1	0.2	0.0644 ug/L	0.0644 ppb	19:21:01
3	U 409.014†	-2958.0	-145.9	-3.7259 ug/L	-3.7259 ppb	19:20:36
3	V 292.402†	-1493.3	-17.8	-0.1262 ug/L	-0.1262 ppb	19:20:41
3	Zn 213.857†	1002.1	75.2	0.6855 ug/L	0.6855 ppb	19:21:01
3	SiO2†	568.8	167.6	10.931 ug/L	10.931 ppb	19:22:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	988899.6	99.689 %		1.0246			1.03%
Sc Radial	5620.6	107 %		1.3			1.24%
Y 371.029	858726.5	99.857 %		1.0083			1.01%
Y RADIAL	5895.7	106.7 %		1.30			1.22%
Ag 328.068†	45.8	0.1919 ug/L		0.11535	0.1919 ppb	0.11535	60.11%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-2.4	-1.9083 ug/L		3.73480	-1.9083 ppb	3.73480	195.72%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	10.4	4.2805 ug/L		1.69238	4.2805 ppb	1.69238	39.54%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	506.6	11.634 ug/L		0.4177	11.634 ppb	0.4177	3.59%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	22.9	0.1852 ug/L		0.09935	0.1852 ppb	0.09935	53.66%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	260.7	0.0953 ug/L		0.02442	0.0953 ppb	0.02442	25.61%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	1.0	1.7228 ug/L		0.61980	1.7228 ppb	0.61980	35.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	11.3	0.1284 ug/L	0.09947	0.1284 ppb	0.09947	77.48%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	-3.0	-0.0629 ug/L	0.04057	-0.0629 ppb	0.04057	64.52%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	10.4	0.1114 ug/L	0.04937	0.1114 ppb	0.04937	44.32%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-8.4	-0.0229 ug/L	0.39695	-0.0229 ppb	0.39695	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-1.6	-14.871 ug/L	21.2778	-14.871 ppb	21.2778	143.08%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	15.1	2.7269 ug/L	8.34294	2.7269 ppb	8.34294	305.95%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.6	-21.487 ug/L	11.4605	-21.487 ppb	11.4605	53.34%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	8.8	0.0094 ug/L	0.02192	0.0094 ppb	0.02192	234.27%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	1.1	0.0769 ug/L	0.36347	0.0769 ppb	0.36347	472.58%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-71.2	-21.671 ug/L	8.7362	-21.671 ppb	8.7362	40.31%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	9.8	0.2383 ug/L	0.15786	0.2383 ppb	0.15786	66.24%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-6.0	-3.3043 ug/L	2.30169	-3.3043 ppb	2.30169	69.66%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	30.5	3.6663 ug/L	0.68715	3.6663 ppb	0.68715	18.74%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.4	-0.4783 ug/L	7.49443	-0.4783 ppb	7.49443	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	6.5	2.1270 ug/L	1.84563	2.1270 ppb	1.84563	86.77%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	3.8	2.0446 ug/L	3.98509	2.0446 ppb	3.98509	194.91%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	63.7	1.9436 ug/L	0.18570	1.9436 ppb	0.18570	9.55%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	8.6	1.5541 ug/L	1.02611	1.5541 ppb	1.02611	66.03%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	4.4	0.0273 ug/L	0.13338	0.0273 ppb	0.13338	487.78%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	66.9	0.1046 ug/L	0.07304	0.1046 ppb	0.07304	69.83%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.1	0.3607 ug/L	1.59195	0.3607 ppb	1.59195	441.41%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-102.1	-2.6057 ug/L	2.03636	-2.6057 ppb	2.03636	78.15%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	12.5	0.0788 ug/L	0.17827	0.0788 ppb	0.17827	226.20%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	76.4	0.6972 ug/L	0.06100	0.6972 ppb	0.06100	8.75%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		110.3	7.1919 ug/L	3.25001	7.1919 ppb	3.25001	45.19%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 26
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/29/2010 20:21:07
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5550.8	5550.8	105 %		20:22:59
1	Y RADIAL	5805.6	5805.6	105.1 %		20:22:59
1	Al 396.153Radial†	6219.6	6017.1	4836.0 ug/L	4836.0 ppb	20:22:59
1	Ca 317.933Radial†	3178.7	2999.9	4993.7 ug/L	4993.7 ppb	20:23:19
1	Fe 238.204 Radial†	580.5	541.6	5208.3 ug/L	5208.3 ppb	20:23:19
1	K 766.490 Radial†	32208.0	27944.5	5039.5 ug/L	5039.5 ppb	20:22:59
1	Mg 279.077 IEC†	149.4	140.6	5367.9 ug/L	5367.9 ppb	20:23:19
1	Na 589.592 Radial†	35591.9	34408.9	10479 ug/L	10479 ppb	20:22:59
1	Sr 421.552†	87381.4	82967.6	510.99 ug/L	510.99 ppb	20:22:59
1	Sc 361.383	986125.9	986125.9	99.409 %		20:24:16
1	Y 371.029	846630.9	846630.9	98.450 %		20:24:16
1	Ag 328.068†	119391.5	119726.4	511.34 ug/L	511.34 ppb	20:24:21
1	As 188.979†	1199.2	1242.8	515.20 ug/L	515.20 ppb	20:24:42
1	B 249.677†	21583.1	22052.4	504.03 ug/L	504.03 ppb	20:24:21
1	Ba 233.527†	62238.2	62624.4	509.19 ug/L	509.19 ppb	20:24:21
1	Be 313.107†	1387999.3	1401049.6	512.33 ug/L	512.33 ppb	20:24:16
1	Cd 226.502†	44943.5	45394.1	509.65 ug/L	509.65 ppb	20:24:21
1	Co 228.616†	23835.8	24046.5	508.32 ug/L	508.32 ppb	20:24:21
1	Cr 267.716†	47831.3	48046.2	508.99 ug/L	508.99 ppb	20:24:21
1	Cu 324.752†	187835.1	179981.2	508.13 ug/L	508.13 ppb	20:24:21
1	Mn 257.610†	452110.2	454226.6	510.78 ug/L	510.78 ppb	20:24:16
1	Mo 202.031†	7357.0	7390.2	507.96 ug/L	507.96 ppb	20:24:42
1	Ni 231.604†	21083.2	21128.0	511.09 ug/L	511.09 ppb	20:24:21
1	P 214.914†	4787.8	4567.5	2425.4 ug/L	2425.4 ppb	20:24:42
1	Pb 220.353†	4142.7	4212.4	508.06 ug/L	508.06 ppb	20:24:42
1	S 181.975 Axial†	808.1	770.2	1033.4 ug/L	1033.4 ppb	20:24:42
1	Sb 206.836†	1585.5	1560.1	519.38 ug/L	519.38 ppb	20:24:42
1	Se 196.026†	905.2	934.3	530.90 ug/L	530.90 ppb	20:24:42
1	Si 251.611†	83264.9	83356.1	2540.1 ug/L	2540.1 ppb	20:24:21
1	Sn 189.927†	2753.0	2768.3	502.99 ug/L	502.99 ppb	20:24:42
1	Ti 334.940†	326137.4	329090.0	498.97 ug/L	498.97 ppb	20:24:21
1	Tl 190.801†	1517.7	1571.7	512.02 ug/L	512.02 ppb	20:24:42
1	U 409.014†	17155.5	20051.2	510.16 ug/L	510.16 ppb	20:24:21
1	V 292.402†	76194.3	78113.3	515.05 ug/L	515.05 ppb	20:24:21
1	Zn 213.857†	56288.8	55702.5	504.02 ug/L	504.02 ppb	20:24:21
1	SiO2†	82372.5	82464.3	5364.5 ug/L	5364.5 ppb	20:25:49
2	Sc Radial	5663.6	5663.6	107 %		20:23:24
2	Y RADIAL	5920.0	5920.0	107.2 %		20:23:24
2	Al 396.153Radial†	6348.7	6019.6	4838.3 ug/L	4838.3 ppb	20:23:24
2	Ca 317.933Radial†	3181.5	2942.3	4897.9 ug/L	4897.9 ppb	20:23:44
2	Fe 238.204 Radial†	575.9	526.3	5061.4 ug/L	5061.4 ppb	20:23:44
2	K 766.490 Radial†	32568.3	27670.2	4990.1 ug/L	4990.1 ppb	20:23:24
2	Mg 279.077 IEC†	143.8	132.6	5061.2 ug/L	5061.2 ppb	20:23:44
2	Na 589.592 Radial†	36220.5	34320.5	10452 ug/L	10452 ppb	20:23:24
2	Sr 421.552†	89200.7	83007.5	511.23 ug/L	511.23 ppb	20:23:24
2	Sc 361.383	991413.8	991413.8	99.942 %		20:24:47
2	Y 371.029	850331.3	850331.3	98.880 %		20:24:47
2	Ag 328.068†	118013.6	117707.2	502.70 ug/L	502.70 ppb	20:24:53
2	As 188.979†	1186.6	1223.8	507.27 ug/L	507.27 ppb	20:25:13
2	B 249.677†	21348.3	21701.7	496.02 ug/L	496.02 ppb	20:24:53
2	Ba 233.527†	61511.3	61563.2	500.56 ug/L	500.56 ppb	20:24:53
2	Be 313.107†	1394924.5	1400531.7	512.12 ug/L	512.12 ppb	20:24:47
2	Cd 226.502†	44621.1	44830.4	503.32 ug/L	503.32 ppb	20:24:53
2	Co 228.616†	23619.2	23701.9	501.05 ug/L	501.05 ppb	20:24:53
2	Cr 267.716†	47295.1	47253.1	500.59 ug/L	500.59 ppb	20:24:53
2	Cu 324.752†	184372.2	175508.4	495.51 ug/L	495.51 ppb	20:24:53
2	Mn 257.610†	454817.9	454510.1	511.10 ug/L	511.10 ppb	20:24:47
2	Mo 202.031†	7325.6	7319.2	503.08 ug/L	503.08 ppb	20:25:13
2	Ni 231.604†	20808.4	20740.0	501.70 ug/L	501.70 ppb	20:24:53

2	P 214.914†	4796.9	4551.0	2418.8 ug/L	2418.8 ppb	20:25:13
2	Pb 220.353†	4133.5	4181.0	504.28 ug/L	504.28 ppb	20:25:13
2	S 181.975 Axial†	797.1	754.8	1012.8 ug/L	1012.8 ppb	20:25:13
2	Sb 206.836†	1594.9	1560.9	519.48 ug/L	519.48 ppb	20:25:13
2	Se 196.026†	899.8	924.0	524.77 ug/L	524.77 ppb	20:25:13
2	Si 251.611†	82140.6	81784.4	2492.1 ug/L	2492.1 ppb	20:24:53
2	Sn 189.927†	2749.1	2749.6	499.59 ug/L	499.59 ppb	20:25:13
2	Ti 334.940†	321169.0	322368.9	488.80 ug/L	488.80 ppb	20:24:53
2	Tl 190.801†	1510.2	1556.1	506.94 ug/L	506.94 ppb	20:25:13
2	U 409.014†	16601.5	19404.9	493.69 ug/L	493.69 ppb	20:24:53
2	V 292.402†	75082.8	76592.4	505.08 ug/L	505.08 ppb	20:24:53
2	Zn 213.857†	55772.1	54883.5	496.63 ug/L	496.63 ppb	20:24:53
2	SiO2†	82048.9	81698.6	5314.7 ug/L	5314.7 ppb	20:25:54
3	Sc Radial	5575.4	5575.4	106 %		20:23:49
3	Y RADIAL	5788.0	5788.0	104.8 %		20:23:49
3	Al 396.153Radial†	6212.5	5984.3	4809.4 ug/L	4809.4 ppb	20:23:49
3	Ca 317.933Radial†	3168.4	2976.7	4955.2 ug/L	4955.2 ppb	20:24:09
3	Fe 238.204 Radial†	576.2	535.1	5146.4 ug/L	5146.4 ppb	20:24:09
3	K 766.490 Radial†	32109.5	27716.0	4998.3 ug/L	4998.3 ppb	20:23:49
3	Mg 279.077 IEC†	147.0	137.7	5256.5 ug/L	5256.5 ppb	20:24:09
3	Na 589.592 Radial†	35552.6	34222.2	10422 ug/L	10422 ppb	20:23:49
3	Sr 421.552†	87116.9	82350.3	507.18 ug/L	507.18 ppb	20:23:49
3	Sc 361.383	984156.8	984156.8	99.211 %		20:25:18
3	Y 371.029	843694.5	843694.5	98.109 %		20:25:18
3	Ag 328.068†	121241.3	121831.3	520.28 ug/L	520.28 ppb	20:25:24
3	As 188.979†	1200.5	1246.6	516.79 ug/L	516.79 ppb	20:25:44
3	B 249.677†	22041.0	22557.4	515.61 ug/L	515.61 ppb	20:25:24
3	Ba 233.527†	63061.1	63579.1	516.95 ug/L	516.95 ppb	20:25:24
3	Be 313.107†	1387352.1	1403190.8	513.13 ug/L	513.13 ppb	20:25:18
3	Cd 226.502†	45500.5	46046.0	516.98 ug/L	516.98 ppb	20:25:24
3	Co 228.616†	24191.3	24452.8	516.90 ug/L	516.90 ppb	20:25:24
3	Cr 267.716†	48448.6	48764.8	516.60 ug/L	516.60 ppb	20:25:24
3	Cu 324.752†	190708.0	183254.9	517.37 ug/L	517.37 ppb	20:25:24
3	Mn 257.610†	452279.2	455306.8	511.99 ug/L	511.99 ppb	20:25:18
3	Mo 202.031†	7381.0	7429.1	510.63 ug/L	510.63 ppb	20:25:44
3	Ni 231.604†	21308.0	21397.1	517.60 ug/L	517.60 ppb	20:25:24
3	P 214.914†	4812.4	4602.0	2442.7 ug/L	2442.7 ppb	20:25:44
3	Pb 220.353†	4175.8	4254.1	513.07 ug/L	513.07 ppb	20:25:44
3	S 181.975 Axial†	807.0	770.7	1034.1 ug/L	1034.1 ppb	20:25:44
3	Sb 206.836†	1599.8	1577.6	525.13 ug/L	525.13 ppb	20:25:44
3	Se 196.026†	898.9	929.8	528.20 ug/L	528.20 ppb	20:25:44
3	Si 251.611†	84429.3	84697.3	2581.0 ug/L	2581.0 ppb	20:25:24
3	Sn 189.927†	2770.3	2791.3	507.15 ug/L	507.15 ppb	20:25:44
3	Ti 334.940†	330866.8	334513.5	507.20 ug/L	507.20 ppb	20:25:24
3	Tl 190.801†	1531.8	1589.0	517.64 ug/L	517.64 ppb	20:25:44
3	U 409.014†	17443.0	20375.5	518.43 ug/L	518.43 ppb	20:25:24
3	V 292.402†	77105.6	79185.2	522.07 ug/L	522.07 ppb	20:25:24
3	Zn 213.857†	57073.3	56606.5	512.22 ug/L	512.22 ppb	20:25:24
3	SiO2†	81596.8	81848.2	5324.3 ug/L	5324.3 ppb	20:25:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	987232.2	99.521 %	0.3783			0.38%
Sc Radial	5596.6	106 %	1.1			1.06%
Y 371.029	846885.6	98.480 %	0.3867			0.39%
Y RADIAL	5837.9	105.7 %	1.30			1.23%
Ag 328.068†	119755.0	511.44 ug/L	8.789	511.44 ppb	8.789	1.72%
QC value within limits for Ag 328.068 Recovery = 102.29%						
Al 396.153Radial†	6007.0	4827.9 ug/L	16.05	4827.9 ppb	16.05	0.33%
QC value within limits for Al 396.153Radial Recovery = 96.56%						
As 188.979†	1237.7	513.09 ug/L	5.104	513.09 ppb	5.104	0.99%
QC value within limits for As 188.979 Recovery = 102.62%						
B 249.677†	22103.8	505.22 ug/L	9.849	505.22 ppb	9.849	1.95%
QC value within limits for B 249.677 Recovery = 101.04%						
Ba 233.527†	62588.9	508.90 ug/L	8.199	508.90 ppb	8.199	1.61%
QC value within limits for Ba 233.527 Recovery = 101.78%						
Be 313.107†	1401590.7	512.53 ug/L	0.534	512.53 ppb	0.534	0.10%
QC value within limits for Be 313.107 Recovery = 102.51%						
Ca 317.933Radial†	2973.0	4948.9 ug/L	48.23	4948.9 ppb	48.23	0.97%

QC value within limits for Ca 317.933 Radial Recovery = 98.98%							
Cd 226.502†	45423.5	509.98 ug/L	6.835	509.98 ppb	6.835	1.34%	
QC value within limits for Cd 226.502 Recovery = 102.00%							
Co 228.616†	24067.0	508.76 ug/L	7.933	508.76 ppb	7.933	1.56%	
QC value within limits for Co 228.616 Recovery = 101.75%							
Cr 267.716†	48021.4	508.73 ug/L	8.008	508.73 ppb	8.008	1.57%	
QC value within limits for Cr 267.716 Recovery = 101.75%							
Cu 324.752†	179581.5	507.00 ug/L	10.975	507.00 ppb	10.975	2.16%	
QC value within limits for Cu 324.752 Recovery = 101.40%							
Fe 238.204 Radial†	534.3	5138.7 ug/L	73.75	5138.7 ppb	73.75	1.44%	
QC value within limits for Fe 238.204 Radial Recovery = 102.77%							
K 766.490 Radial†	27776.9	5009.3 ug/L	26.51	5009.3 ppb	26.51	0.53%	
QC value within limits for K 766.490 Radial Recovery = 100.19%							
Mg 279.077 IEC†	136.9	5228.6 ug/L	155.23	5228.6 ppb	155.23	2.97%	
QC value within limits for Mg 279.077 IEC Recovery = 104.57%							
Mn 257.610†	454681.2	511.29 ug/L	0.629	511.29 ppb	0.629	0.12%	
QC value within limits for Mn 257.610 Recovery = 102.26%							
Mo 202.031†	7379.5	507.23 ug/L	3.831	507.23 ppb	3.831	0.76%	
QC value within limits for Mo 202.031 Recovery = 101.45%							
Na 589.592 Radial†	34317.2	10451 ug/L	28.4	10451 ppb	28.4	0.27%	
QC value within limits for Na 589.592 Radial Recovery = 104.51%							
Ni 231.604†	21088.4	510.13 ug/L	7.991	510.13 ppb	7.991	1.57%	
QC value within limits for Ni 231.604 Recovery = 102.03%							
P 214.914†	4573.5	2429.0 ug/L	12.32	2429.0 ppb	12.32	0.51%	
QC value within limits for P 214.914 Recovery = 97.16%							
Pb 220.353†	4215.8	508.47 ug/L	4.409	508.47 ppb	4.409	0.87%	
QC value within limits for Pb 220.353 Recovery = 101.69%							
S 181.975 Axial†	765.2	1026.8 ug/L	12.12	1026.8 ppb	12.12	1.18%	
QC value within limits for S 181.975 Axial Recovery = 102.68%							
Sb 206.836†	1566.2	521.33 ug/L	3.290	521.33 ppb	3.290	0.63%	
QC value within limits for Sb 206.836 Recovery = 104.27%							
Se 196.026†	929.4	527.96 ug/L	3.070	527.96 ppb	3.070	0.58%	
QC value within limits for Se 196.026 Recovery = 105.59%							
Si 251.611†	83279.2	2537.7 ug/L	44.49	2537.7 ppb	44.49	1.75%	
QC value within limits for Si 251.611 Recovery = 101.51%							
Sn 189.927†	2769.7	503.24 ug/L	3.787	503.24 ppb	3.787	0.75%	
QC value within limits for Sn 189.927 Recovery = 100.65%							
Sr 421.552†	82775.1	509.80 ug/L	2.269	509.80 ppb	2.269	0.45%	
QC value within limits for Sr 421.552 Recovery = 101.96%							
Ti 334.940†	328657.5	498.32 ug/L	9.215	498.32 ppb	9.215	1.85%	
QC value within limits for Ti 334.940 Recovery = 99.66%							
Tl 190.801†	1572.3	512.20 ug/L	5.350	512.20 ppb	5.350	1.04%	
QC value within limits for Tl 190.801 Recovery = 102.44%							
U 409.014†	19943.9	507.42 ug/L	12.592	507.42 ppb	12.592	2.48%	
QC value within limits for U 409.014 Recovery = 101.48%							
V 292.402†	77963.6	514.06 ug/L	8.538	514.06 ppb	8.538	1.66%	
QC value within limits for V 292.402 Recovery = 102.81%							
Zn 213.857†	55730.8	504.29 ug/L	7.798	504.29 ppb	7.798	1.55%	
QC value within limits for Zn 213.857 Recovery = 100.86%							
SiO2†	82003.7	5334.5 ug/L	26.43	5334.5 ppb	26.43	0.50%	
QC value within limits for SiO2 Recovery = 99.76%							
All analyte(s) passed QC.							

Sequence No.: 27

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/29/2010 20:28:10

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	5607.3	5607.3	106 %		20:30:01
1	Y RADIAL	5883.7	5883.7	106.5 %		20:30:01
1	Al 396.153Radial†	-123.6	-9.3	-7.5403 ug/L	-7.5403 ppb	20:30:21
1	Ca 317.933Radial†	25.7	3.4	5.7364 ug/L	5.7364 ppb	20:30:21
1	Fe 238.204 Radial†	9.7	-0.9	-8.7474 ug/L	-8.7474 ppb	20:30:21
1	K 766.490 Radial†	2708.6	-113.3	-20.456 ug/L	-20.456 ppb	20:30:01
1	Mg 279.077 IEC†	1.7	0.2	8.1522 ug/L	8.1522 ppb	20:30:21
1	Na 589.592 Radial†	-690.5	-61.9	-18.838 ug/L	-18.838 ppb	20:30:01
1	Sr 421.552†	60.1	-10.2	-0.0627 ug/L	-0.0627 ppb	20:30:01
1	Sc 361.383	990768.5	990768.5	99.877 %		20:31:18
1	Y 371.029	860539.8	860539.8	100.07 %		20:31:18
1	Ag 328.068†	405.5	31.4	0.1358 ug/L	0.1358 ppb	20:31:23
1	As 188.979†	-35.0	1.5	0.6148 ug/L	0.6148 ppb	20:31:43
1	B 249.677†	-73.9	267.1	6.1339 ug/L	6.1339 ppb	20:31:43
1	Ba 233.527†	-2.6	13.8	0.1115 ug/L	0.1115 ppb	20:31:43
1	Be 313.107†	-4599.5	197.3	0.0722 ug/L	0.0722 ppb	20:31:23
1	Cd 226.502†	-170.5	12.8	0.1437 ug/L	0.1437 ppb	20:31:43
1	Co 228.616†	-73.7	-4.7	-0.1000 ug/L	-0.1000 ppb	20:31:43
1	Cr 267.716†	73.0	3.8	0.0424 ug/L	0.0424 ppb	20:31:43
1	Cu 324.752†	8823.6	-135.7	-0.3798 ug/L	-0.3798 ppb	20:31:23
1	Mn 257.610†	580.0	10.6	0.0107 ug/L	0.0107 ppb	20:31:43
1	Mo 202.031†	11.8	1.3	0.0862 ug/L	0.0862 ppb	20:31:43
1	Ni 231.604†	101.0	20.6	0.4998 ug/L	0.4998 ppb	20:31:43
1	P 214.914†	237.5	-10.9	-5.9279 ug/L	-5.9279 ppb	20:31:43
1	Pb 220.353†	-38.5	6.6	0.7965 ug/L	0.7965 ppb	20:31:43
1	S 181.975 Axial†	39.9	-2.8	-3.8002 ug/L	-3.8002 ppb	20:31:43
1	Sb 206.836†	43.4	8.6	2.8009 ug/L	2.8009 ppb	20:31:43
1	Se 196.026†	-16.6	7.1	3.8363 ug/L	3.8363 ppb	20:31:43
1	Si 251.611†	497.1	94.1	2.8740 ug/L	2.8740 ppb	20:31:43
1	Sn 189.927†	14.6	13.5	2.4514 ug/L	2.4514 ppb	20:31:43
1	Ti 334.940†	-963.0	50.5	0.0797 ug/L	0.0797 ppb	20:31:23
1	Tl 190.801†	-41.5	3.5	1.1390 ug/L	1.1390 ppb	20:31:43
1	U 409.014†	-3057.2	-267.1	-6.8186 ug/L	-6.8186 ppb	20:31:23
1	V 292.402†	-1472.6	-8.1	-0.0635 ug/L	-0.0635 ppb	20:31:23
1	Zn 213.857†	1024.1	104.6	0.9528 ug/L	0.9528 ppb	20:31:43
1	SiO2†	509.5	112.4	7.3309 ug/L	7.3309 ppb	20:33:04
2	Sc Radial	5542.6	5542.6	105 %		20:30:26
2	Y RADIAL	5806.5	5806.5	105.1 %		20:30:26
2	Al 396.153Radial†	-112.7	-0.4	-0.3139 ug/L	-0.3139 ppb	20:30:46
2	Ca 317.933Radial†	22.9	1.1	1.8034 ug/L	1.8034 ppb	20:30:46
2	Fe 238.204 Radial†	8.7	-1.8	-17.503 ug/L	-17.503 ppb	20:30:46
2	K 766.490 Radial†	2712.9	-79.4	-14.331 ug/L	-14.331 ppb	20:30:26
2	Mg 279.077 IEC†	-0.4	-1.8	-67.771 ug/L	-67.771 ppb	20:30:46
2	Na 589.592 Radial†	-709.6	-87.7	-26.696 ug/L	-26.696 ppb	20:30:26
2	Sr 421.552†	80.5	9.8	0.0606 ug/L	0.0606 ppb	20:30:26
2	Sc 361.383	994164.2	994164.2	100.22 %		20:31:48
2	Y 371.029	862425.0	862425.0	100.29 %		20:31:48
2	Ag 328.068†	459.2	83.7	0.3526 ug/L	0.3526 ppb	20:31:53
2	As 188.979†	-32.9	3.7	1.5067 ug/L	1.5067 ppb	20:32:13
2	B 249.677†	-82.8	258.4	5.9373 ug/L	5.9373 ppb	20:32:13
2	Ba 233.527†	-5.4	11.0	0.0883 ug/L	0.0883 ppb	20:32:13
2	Be 313.107†	-4703.6	109.1	0.0398 ug/L	0.0398 ppb	20:31:53
2	Cd 226.502†	-189.5	-5.5	-0.0610 ug/L	-0.0610 ppb	20:32:13
2	Co 228.616†	-79.8	-10.6	-0.2232 ug/L	-0.2232 ppb	20:32:13
2	Cr 267.716†	68.9	-0.5	-0.0045 ug/L	-0.0045 ppb	20:32:13
2	Cu 324.752†	8900.2	-89.4	-0.2508 ug/L	-0.2508 ppb	20:31:53
2	Mn 257.610†	581.7	10.2	0.0125 ug/L	0.0125 ppb	20:32:13
2	Mo 202.031†	14.7	4.1	0.2779 ug/L	0.2779 ppb	20:32:13
2	Ni 231.604†	96.2	15.5	0.3750 ug/L	0.3750 ppb	20:32:13

2	P 214.914†	239.4	-9.8	-5.3070 ug/L	-5.3070 ppb	20:32:13
2	Pb 220.353†	-49.0	-3.8	-0.4516 ug/L	-0.4516 ppb	20:32:13
2	S 181.975 Axial†	38.8	-4.1	-5.4552 ug/L	-5.4552 ppb	20:32:13
2	Sb 206.836†	40.2	5.3	1.7440 ug/L	1.7440 ppb	20:32:13
2	Se 196.026†	-19.3	4.4	2.3654 ug/L	2.3654 ppb	20:32:13
2	Si 251.611†	503.2	98.4	3.0027 ug/L	3.0027 ppb	20:32:13
2	Sn 189.927†	15.3	14.1	2.5644 ug/L	2.5644 ppb	20:32:13
2	Ti 334.940†	-1015.0	1.8	0.0105 ug/L	0.0105 ppb	20:31:53
2	Tl 190.801†	-41.0	4.1	1.3438 ug/L	1.3438 ppb	20:32:13
2	U 409.014†	-2974.2	-173.9	-4.4382 ug/L	-4.4382 ppb	20:31:53
2	V 292.402†	-1485.0	-15.6	-0.1046 ug/L	-0.1046 ppb	20:31:53
2	Zn 213.857†	1014.8	91.8	0.8375 ug/L	0.8375 ppb	20:32:13
2	SiO2†	510.6	111.7	7.2803 ug/L	7.2803 ppb	20:33:24
3	Sc Radial	5638.3	5638.3	107 %		20:30:52
3	Y RADIAL	5922.6	5922.6	107.2 %		20:30:52
3	Al 396.153Radial†	-106.8	7.0	5.6268 ug/L	5.6268 ppb	20:31:12
3	Ca 317.933Radial†	25.2	2.8	4.7436 ug/L	4.7436 ppb	20:31:12
3	Fe 238.204 Radial†	8.8	-1.8	-17.139 ug/L	-17.139 ppb	20:31:12
3	K 766.490 Radial†	2743.6	-94.6	-17.065 ug/L	-17.065 ppb	20:30:52
3	Mg 279.077 IEC†	3.2	1.6	61.484 ug/L	61.484 ppb	20:31:12
3	Na 589.592 Radial†	-722.7	-88.5	-26.944 ug/L	-26.944 ppb	20:30:52
3	Sr 421.552†	87.4	15.0	0.0925 ug/L	0.0925 ppb	20:30:52
3	Sc 361.383	988338.1	988338.1	99.632 %		20:32:19
3	Y 371.029	856900.7	856900.7	99.644 %		20:32:19
3	Ag 328.068†	335.0	-38.3	-0.1652 ug/L	-0.1652 ppb	20:32:24
3	As 188.979†	-27.7	8.7	3.5792 ug/L	3.5792 ppb	20:32:44
3	B 249.677†	-96.6	244.1	5.6072 ug/L	5.6072 ppb	20:32:44
3	Ba 233.527†	-18.2	-1.9	-0.0164 ug/L	-0.0164 ppb	20:32:44
3	Be 313.107†	-4513.4	272.4	0.0995 ug/L	0.0995 ppb	20:32:24
3	Cd 226.502†	-174.4	8.5	0.0968 ug/L	0.0968 ppb	20:32:44
3	Co 228.616†	-69.2	-0.4	-0.0083 ug/L	-0.0083 ppb	20:32:44
3	Cr 267.716†	51.0	-18.1	-0.1906 ug/L	-0.1906 ppb	20:32:44
3	Cu 324.752†	8842.3	-95.1	-0.2672 ug/L	-0.2672 ppb	20:32:24
3	Mn 257.610†	587.3	19.3	0.0175 ug/L	0.0175 ppb	20:32:44
3	Mo 202.031†	7.5	-3.0	-0.2102 ug/L	-0.2102 ppb	20:32:44
3	Ni 231.604†	104.3	24.2	0.5853 ug/L	0.5853 ppb	20:32:44
3	P 214.914†	253.6	5.8	3.3012 ug/L	3.3012 ppb	20:32:44
3	Pb 220.353†	-40.2	4.8	0.5821 ug/L	0.5821 ppb	20:32:44
3	S 181.975 Axial†	43.5	1.0	1.2880 ug/L	1.2880 ppb	20:32:44
3	Sb 206.836†	38.9	4.2	1.3529 ug/L	1.3529 ppb	20:32:44
3	Se 196.026†	-12.8	10.9	5.9039 ug/L	5.9039 ppb	20:32:44
3	Si 251.611†	497.8	96.0	2.9339 ug/L	2.9339 ppb	20:32:44
3	Sn 189.927†	2.2	1.1	0.1974 ug/L	0.1974 ppb	20:32:44
3	Ti 334.940†	-965.8	45.3	0.0662 ug/L	0.0662 ppb	20:32:24
3	Tl 190.801†	-39.0	5.9	1.8958 ug/L	1.8958 ppb	20:32:44
3	U 409.014†	-2943.9	-161.0	-4.1068 ug/L	-4.1068 ppb	20:32:24
3	V 292.402†	-1477.6	-16.9	-0.1168 ug/L	-0.1168 ppb	20:32:24
3	Zn 213.857†	1007.3	90.2	0.8219 ug/L	0.8219 ppb	20:32:44
3	SiO2†	503.0	107.1	6.9920 ug/L	6.9920 ppb	20:33:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	991090.3	99.910 %	0.2950			0.30%
Sc Radial	5596.1	106 %	0.9			0.87%
Y 371.029	859955.2	100.006 %	0.3265			0.33%
Y RADIAL	5870.9	106.3 %	1.07			1.01%
Ag 328.068†	25.6	0.1078 ug/L	0.26003	0.1078 ppb	0.26003	241.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.9	-0.7425 ug/L	6.59405	-0.7425 ppb	6.59405	888.12%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.6	1.9002 ug/L	1.52087	1.9002 ppb	1.52087	80.04%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	256.5	5.8928 ug/L	0.26612	5.8928 ppb	0.26612	4.52%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.6	0.0611 ug/L	0.06811	0.0611 ppb	0.06811	111.42%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	192.9	0.0705 ug/L	0.02989	0.0705 ppb	0.02989	42.39%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.5	4.0945 ug/L	2.04526	4.0945 ppb	2.04526	49.95%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	5.3	0.0598 ug/L	0.10723	0.0598 ppb	0.10723	179.18%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-5.2	-0.1105 ug/L	0.10780	-0.1105 ppb	0.10780	97.56%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-5.0	-0.0509 ug/L	0.12327	-0.0509 ppb	0.12327	242.13%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-106.7	-0.2993 ug/L	0.07024	-0.2993 ppb	0.07024	23.47%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.5	-14.463 ug/L	4.9533	-14.463 ppb	4.9533	34.25%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-95.8	-17.284 ug/L	3.0684	-17.284 ppb	3.0684	17.75%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.0	0.6219 ug/L	64.95566	0.6219 ppb	64.95566	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	13.4	0.0136 ug/L	0.00352	0.0136 ppb	0.00352	25.94%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	0.8	0.0513 ug/L	0.24593	0.0513 ppb	0.24593	479.65%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-79.3	-24.159 ug/L	4.6104	-24.159 ppb	4.6104	19.08%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	20.1	0.4867 ug/L	0.10577	0.4867 ppb	0.10577	21.73%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-4.9	-2.6446 ug/L	5.15854	-2.6446 ppb	5.15854	195.06%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	2.6	0.3090 ug/L	0.66736	0.3090 ppb	0.66736	215.98%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.0	-2.6558 ug/L	3.51426	-2.6558 ppb	3.51426	132.32%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	6.0	1.9659 ug/L	0.74906	1.9659 ppb	0.74906	38.10%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.5	4.0352 ug/L	1.77763	4.0352 ppb	1.77763	44.05%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	96.2	2.9369 ug/L	0.06443	2.9369 ppb	0.06443	2.19%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	9.6	1.7378 ug/L	1.33515	1.7378 ppb	1.33515	76.83%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	4.9	0.0301 ug/L	0.08193	0.0301 ppb	0.08193	271.87%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	32.6	0.0522 ug/L	0.03667	0.0522 ppb	0.03667	70.32%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.5	1.4595 ug/L	0.39144	1.4595 ppb	0.39144	26.82%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-200.7	-5.1212 ug/L	1.47932	-5.1212 ppb	1.47932	28.89%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-13.5	-0.0950 ug/L	0.02792	-0.0950 ppb	0.02792	29.40%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	95.5	0.8707 ug/L	0.07146	0.8707 ppb	0.07146	8.21%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	110.4	7.2010 ug/L	0.18281	7.2010 ppb	0.18281	2.54%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/29/2010 21:39:33

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	5468.1	5468.1	104 %		21:41:25
1	Y RADIAL	5685.6	5685.6	102.9 %		21:41:25
1	Al 396.153Radial†	6237.9	6124.1	4922.6 ug/L	4922.6 ppb	21:41:25
1	Ca 317.933Radial†	3193.5	3059.8	5093.5 ug/L	5093.5 ppb	21:41:45
1	Fe 238.204 Radial†	574.2	543.9	5230.3 ug/L	5230.3 ppb	21:41:45
1	K 766.490 Radial†	32036.4	28241.6	5093.3 ug/L	5093.3 ppb	21:41:25
1	Mg 279.077 IEC†	146.2	139.6	5330.9 ug/L	5330.9 ppb	21:41:45
1	Na 589.592 Radial†	33827.9	33218.6	10117 ug/L	10117 ppb	21:41:25
1	Sr 421.552†	85500.9	82408.7	507.54 ug/L	507.54 ppb	21:41:25
1	Sc 361.383	986879.0	986879.0	99.485 %		21:42:43
1	Y 371.029	845556.4	845556.4	98.325 %		21:42:43
1	Ag 328.068†	120566.2	120815.5	515.98 ug/L	515.98 ppb	21:42:48
1	As 188.979†	1187.1	1229.8	510.00 ug/L	510.00 ppb	21:43:08
1	B 249.677†	21809.0	22262.9	508.84 ug/L	508.84 ppb	21:42:48
1	Ba 233.527†	63053.5	63396.1	515.46 ug/L	515.46 ppb	21:42:48
1	Be 313.107†	1405281.3	1417355.6	518.32 ug/L	518.32 ppb	21:42:43
1	Cd 226.502†	45598.3	46017.8	516.65 ug/L	516.65 ppb	21:42:48
1	Co 228.616†	24201.3	24395.6	515.66 ug/L	515.66 ppb	21:42:48
1	Cr 267.716†	48466.0	48647.5	515.36 ug/L	515.36 ppb	21:42:48
1	Cu 324.752†	189407.0	181417.0	512.18 ug/L	512.18 ppb	21:42:48
1	Mn 257.610†	459092.8	460898.3	518.28 ug/L	518.28 ppb	21:42:43
1	Mo 202.031†	7342.9	7370.3	506.60 ug/L	506.60 ppb	21:43:08
1	Ni 231.604†	21281.6	21311.3	515.52 ug/L	515.52 ppb	21:42:48
1	P 214.914†	4777.1	4553.1	2416.6 ug/L	2416.6 ppb	21:43:08
1	Pb 220.353†	4169.6	4236.3	510.94 ug/L	510.94 ppb	21:43:08
1	S 181.975 Axial†	800.2	761.6	1021.9 ug/L	1021.9 ppb	21:43:08
1	Sb 206.836†	1586.9	1560.2	519.35 ug/L	519.35 ppb	21:43:08
1	Se 196.026†	916.9	945.4	537.02 ug/L	537.02 ppb	21:43:08
1	Si 251.611†	84281.4	84313.9	2569.3 ug/L	2569.3 ppb	21:42:48
1	Sn 189.927†	2755.7	2768.8	503.10 ug/L	503.10 ppb	21:43:08
1	Ti 334.940†	337403.3	340163.9	515.78 ug/L	515.78 ppb	21:42:43
1	Tl 190.801†	1526.1	1579.0	514.53 ug/L	514.53 ppb	21:43:08
1	U 409.014†	17536.0	20420.5	519.57 ug/L	519.57 ppb	21:42:48
1	V 292.402†	76909.0	78773.2	519.31 ug/L	519.31 ppb	21:42:48
1	Zn 213.857†	57052.4	56426.8	510.59 ug/L	510.59 ppb	21:42:48
1	SiO2†	82888.9	82920.2	5394.3 ug/L	5394.3 ppb	21:44:16
2	Sc Radial	5513.1	5513.1	105 %		21:41:50
2	Y RADIAL	5819.7	5819.7	105.4 %		21:41:50
2	Al 396.153Radial†	6287.2	6122.1	4920.7 ug/L	4920.7 ppb	21:41:50
2	Ca 317.933Radial†	3202.6	3043.4	5066.1 ug/L	5066.1 ppb	21:42:10
2	Fe 238.204 Radial†	575.3	540.3	5196.2 ug/L	5196.2 ppb	21:42:10
2	K 766.490 Radial†	32236.0	28180.3	5082.2 ug/L	5082.2 ppb	21:41:50
2	Mg 279.077 IEC†	146.6	138.9	5304.2 ug/L	5304.2 ppb	21:42:10
2	Na 589.592 Radial†	34109.4	33221.5	10117 ug/L	10117 ppb	21:41:50
2	Sr 421.552†	86153.6	82360.0	507.24 ug/L	507.24 ppb	21:41:50
2	Sc 361.383	985512.6	985512.6	99.347 %		21:43:14
2	Y 371.029	845189.5	845189.5	98.282 %		21:43:14
2	Ag 328.068†	119757.9	120169.9	513.23 ug/L	513.23 ppb	21:43:19
2	As 188.979†	1192.8	1237.2	513.02 ug/L	513.02 ppb	21:43:39
2	B 249.677†	21616.5	22099.6	505.10 ug/L	505.10 ppb	21:43:19
2	Ba 233.527†	62543.3	62970.4	512.00 ug/L	512.00 ppb	21:43:19
2	Be 313.107†	1403157.4	1417176.2	518.25 ug/L	518.25 ppb	21:43:14
2	Cd 226.502†	45234.9	45715.6	513.26 ug/L	513.26 ppb	21:43:19
2	Co 228.616†	24023.6	24250.5	512.61 ug/L	512.61 ppb	21:43:19
2	Cr 267.716†	48089.3	48335.9	512.06 ug/L	512.06 ppb	21:43:19
2	Cu 324.752†	187807.1	180070.6	508.39 ug/L	508.39 ppb	21:43:19
2	Mn 257.610†	457859.9	460297.1	517.61 ug/L	517.61 ppb	21:43:14
2	Mo 202.031†	7386.8	7424.8	510.34 ug/L	510.34 ppb	21:43:39
2	Ni 231.604†	21213.6	21272.5	514.58 ug/L	514.58 ppb	21:43:19

2	P 214.914†	4800.8	4583.6	2434.3 ug/L	2434.3 ppb	21:43:39
2	Pb 220.353†	4162.1	4234.5	510.74 ug/L	510.74 ppb	21:43:39
2	S 181.975 Axial†	796.5	759.0	1018.4 ug/L	1018.4 ppb	21:43:39
2	Sb 206.836†	1608.7	1584.4	527.26 ug/L	527.26 ppb	21:43:39
2	Se 196.026†	904.9	934.6	531.01 ug/L	531.01 ppb	21:43:39
2	Si 251.611†	83643.8	83789.5	2553.3 ug/L	2553.3 ppb	21:43:19
2	Sn 189.927†	2779.1	2796.2	508.07 ug/L	508.07 ppb	21:43:39
2	Ti 334.940†	336638.8	339864.5	515.33 ug/L	515.33 ppb	21:43:14
2	Tl 190.801†	1545.8	1601.0	521.64 ug/L	521.64 ppb	21:43:39
2	U 409.014†	17045.9	19951.7	507.61 ug/L	507.61 ppb	21:43:19
2	V 292.402†	76353.1	78320.9	516.41 ug/L	516.41 ppb	21:43:19
2	Zn 213.857†	56575.3	56026.1	506.95 ug/L	506.95 ppb	21:43:19
2	SiO2†	83878.3	84031.5	5466.7 ug/L	5466.7 ppb	21:44:21
3	Sc Radial	5429.6	5429.6	103 %		21:42:15
3	Y RADIAL	5682.4	5682.4	102.9 %		21:42:15
3	Al 396.153Radial†	6216.2	6145.7	4939.8 ug/L	4939.8 ppb	21:42:15
3	Ca 317.933Radial†	3191.5	3079.7	5126.6 ug/L	5126.6 ppb	21:42:35
3	Fe 238.204 Radial†	572.9	546.4	5255.0 ug/L	5255.0 ppb	21:42:35
3	K 766.490 Radial†	31675.3	28110.3	5069.6 ug/L	5069.6 ppb	21:42:15
3	Mg 279.077 IEC†	142.8	137.3	5243.8 ug/L	5243.8 ppb	21:42:35
3	Na 589.592 Radial†	33419.1	33053.1	10066 ug/L	10066 ppb	21:42:15
3	Sr 421.552†	84375.0	81900.7	504.41 ug/L	504.41 ppb	21:42:15
3	Sc 361.383	982207.1	982207.1	99.014 %		21:43:45
3	Y 371.029	843800.3	843800.3	98.121 %		21:43:45
3	Ag 328.068†	118933.7	119743.2	511.44 ug/L	511.44 ppb	21:43:50
3	As 188.979†	1184.8	1233.1	511.35 ug/L	511.35 ppb	21:44:10
3	B 249.677†	21487.3	22042.3	503.78 ug/L	503.78 ppb	21:43:50
3	Ba 233.527†	62193.0	62828.5	510.85 ug/L	510.85 ppb	21:43:50
3	Be 313.107†	1400380.5	1419124.8	518.96 ug/L	518.96 ppb	21:43:45
3	Cd 226.502†	45010.3	45641.9	512.43 ug/L	512.43 ppb	21:43:50
3	Co 228.616†	23844.0	24150.4	510.49 ug/L	510.49 ppb	21:43:50
3	Cr 267.716†	47858.6	48265.8	511.32 ug/L	511.32 ppb	21:43:50
3	Cu 324.752†	186152.0	179035.2	505.47 ug/L	505.47 ppb	21:43:50
3	Mn 257.610†	455418.0	459381.9	516.58 ug/L	516.58 ppb	21:43:45
3	Mo 202.031†	7367.9	7430.7	510.75 ug/L	510.75 ppb	21:44:10
3	Ni 231.604†	21048.7	21177.8	512.29 ug/L	512.29 ppb	21:43:50
3	P 214.914†	4800.4	4599.5	2443.6 ug/L	2443.6 ppb	21:44:10
3	Pb 220.353†	4176.1	4262.8	514.14 ug/L	514.14 ppb	21:44:10
3	S 181.975 Axial†	793.6	758.7	1018.0 ug/L	1018.0 ppb	21:44:10
3	Sb 206.836†	1594.9	1575.9	524.49 ug/L	524.49 ppb	21:44:10
3	Se 196.026†	892.3	924.9	525.92 ug/L	525.92 ppb	21:44:10
3	Si 251.611†	82887.3	83308.9	2538.6 ug/L	2538.6 ppb	21:43:50
3	Sn 189.927†	2749.3	2775.5	504.33 ug/L	504.33 ppb	21:44:10
3	Ti 334.940†	335383.9	339737.6	515.15 ug/L	515.15 ppb	21:43:45
3	Tl 190.801†	1525.8	1586.0	516.80 ug/L	516.80 ppb	21:44:10
3	U 409.014†	17016.1	19979.3	508.31 ug/L	508.31 ppb	21:43:50
3	V 292.402†	76089.7	78313.5	516.36 ug/L	516.36 ppb	21:43:50
3	Zn 213.857†	56407.8	56048.6	507.17 ug/L	507.17 ppb	21:43:50
3	SiO2†	83573.5	84007.9	5465.1 ug/L	5465.1 ppb	21:44:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	984866.2	99.282 %		0.2421			0.24%
Sc Radial	5470.3	104 %		0.8			0.76%
Y 371.029	844848.7	98.243 %		0.1077			0.11%
Y RADIAL	5729.2	103.7 %		1.42			1.37%
Ag 328.068†	120242.9	513.55 ug/L		2.290	513.55 ppb	2.290	0.45%
QC value within limits for Ag 328.068 Recovery = 102.71%							
Al 396.153Radial†	6130.6	4927.7 ug/L		10.52	4927.7 ppb	10.52	0.21%
QC value within limits for Al 396.153Radial Recovery = 98.55%							
As 188.979†	1233.3	511.46 ug/L		1.516	511.46 ppb	1.516	0.30%
QC value within limits for As 188.979 Recovery = 102.29%							
B 249.677†	22135.0	505.91 ug/L		2.622	505.91 ppb	2.622	0.52%
QC value within limits for B 249.677 Recovery = 101.18%							
Ba 233.527†	63065.0	512.77 ug/L		2.399	512.77 ppb	2.399	0.47%
QC value within limits for Ba 233.527 Recovery = 102.55%							
Be 313.107†	1417885.5	518.51 ug/L		0.392	518.51 ppb	0.392	0.08%
QC value within limits for Be 313.107 Recovery = 103.70%							
Ca 317.933Radial†	3061.0	5095.4 ug/L		30.30	5095.4 ppb	30.30	0.59%

QC value within limits for Ca 317.933 Radial Recovery = 101.91%							
Cd 226.502†	45791.8	514.11 ug/L	2.239	514.11 ppb	2.239	0.44%	
QC value within limits for Cd 226.502 Recovery = 102.82%							
Co 228.616†	24265.5	512.92 ug/L	2.600	512.92 ppb	2.600	0.51%	
QC value within limits for Co 228.616 Recovery = 102.58%							
Cr 267.716†	48416.4	512.91 ug/L	2.150	512.91 ppb	2.150	0.42%	
QC value within limits for Cr 267.716 Recovery = 102.58%							
Cu 324.752†	180174.3	508.68 ug/L	3.368	508.68 ppb	3.368	0.66%	
QC value within limits for Cu 324.752 Recovery = 101.74%							
Fe 238.204 Radial†	543.5	5227.2 ug/L	29.55	5227.2 ppb	29.55	0.57%	
QC value within limits for Fe 238.204 Radial Recovery = 104.54%							
K 766.490 Radial†	28177.4	5081.7 ug/L	11.86	5081.7 ppb	11.86	0.23%	
QC value within limits for K 766.490 Radial Recovery = 101.63%							
Mg 279.077 IEC†	138.6	5292.9 ug/L	44.63	5292.9 ppb	44.63	0.84%	
QC value within limits for Mg 279.077 IEC Recovery = 105.86%							
Mn 257.610†	460192.4	517.49 ug/L	0.855	517.49 ppb	0.855	0.17%	
QC value within limits for Mn 257.610 Recovery = 103.50%							
Mo 202.031†	7408.6	509.23 ug/L	2.287	509.23 ppb	2.287	0.45%	
QC value within limits for Mo 202.031 Recovery = 101.85%							
Na 589.592 Radial†	33164.4	10100 ug/L	29.3	10100 ppb	29.3	0.29%	
QC value within limits for Na 589.592 Radial Recovery = 101.00%							
Ni 231.604†	21253.8	514.13 ug/L	1.661	514.13 ppb	1.661	0.32%	
QC value within limits for Ni 231.604 Recovery = 102.83%							
P 214.914†	4578.7	2431.5 ug/L	13.71	2431.5 ppb	13.71	0.56%	
QC value within limits for P 214.914 Recovery = 97.26%							
Pb 220.353†	4244.5	511.94 ug/L	1.907	511.94 ppb	1.907	0.37%	
QC value within limits for Pb 220.353 Recovery = 102.39%							
S 181.975 Axial†	759.8	1019.4 ug/L	2.11	1019.4 ppb	2.11	0.21%	
QC value within limits for S 181.975 Axial Recovery = 101.94%							
Sb 206.836†	1573.5	523.70 ug/L	4.013	523.70 ppb	4.013	0.77%	
QC value within limits for Sb 206.836 Recovery = 104.74%							
Se 196.026†	934.9	531.32 ug/L	5.557	531.32 ppb	5.557	1.05%	
QC value within limits for Se 196.026 Recovery = 106.26%							
Si 251.611†	83804.1	2553.7 ug/L	15.38	2553.7 ppb	15.38	0.60%	
QC value within limits for Si 251.611 Recovery = 102.15%							
Sn 189.927†	2780.2	505.17 ug/L	2.590	505.17 ppb	2.590	0.51%	
QC value within limits for Sn 189.927 Recovery = 101.03%							
Sr 421.552†	82223.1	506.40 ug/L	1.727	506.40 ppb	1.727	0.34%	
QC value within limits for Sr 421.552 Recovery = 101.28%							
Ti 334.940†	339922.0	515.42 ug/L	0.324	515.42 ppb	0.324	0.06%	
QC value within limits for Ti 334.940 Recovery = 103.08%							
Tl 190.801†	1588.7	517.66 ug/L	3.629	517.66 ppb	3.629	0.70%	
QC value within limits for Tl 190.801 Recovery = 103.53%							
U 409.014†	20117.2	511.83 ug/L	6.711	511.83 ppb	6.711	1.31%	
QC value within limits for U 409.014 Recovery = 102.37%							
V 292.402†	78469.2	517.36 ug/L	1.693	517.36 ppb	1.693	0.33%	
QC value within limits for V 292.402 Recovery = 103.47%							
Zn 213.857†	56167.2	508.24 ug/L	2.043	508.24 ppb	2.043	0.40%	
QC value within limits for Zn 213.857 Recovery = 101.65%							
SiO2†	83653.2	5442.0 ug/L	41.35	5442.0 ppb	41.35	0.76%	
QC value within limits for SiO2 Recovery = 101.77%							

All analyte(s) passed QC.

Sequence No.: 38
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 1/29/2010 21:46:36
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5446.8	5446.8	103 %		21:48:28
1	Y RADIAL	5746.7	5746.7	104.0 %		21:48:28
1	Al 396.153Radial†	-105.8	4.4	3.5634 ug/L	3.5634 ppb	21:48:48
1	Ca 317.933Radial†	17.6	-3.6	-6.0208 ug/L	-6.0208 ppb	21:48:48
1	Fe 238.204 Radial†	9.9	-0.4	-4.2468 ug/L	-4.2468 ppb	21:48:48
1	K 766.490 Radial†	2645.3	-99.5	-17.947 ug/L	-17.947 ppb	21:48:28
1	Mg 279.077 IEC†	2.9	1.4	53.526 ug/L	53.526 ppb	21:48:48
1	Na 589.592 Radial†	-761.8	-150.1	-45.710 ug/L	-45.710 ppb	21:48:28
1	Sr 421.552†	50.5	-17.8	-0.1095 ug/L	-0.1095 ppb	21:48:28
1	Sc 361.383	979296.8	979296.8	98.721 %		21:49:45
1	Y 371.029	849865.8	849865.8	98.826 %		21:49:45
1	Ag 328.068†	478.9	110.6	0.4745 ug/L	0.4745 ppb	21:49:50
1	As 188.979†	-32.6	3.5	1.4501 ug/L	1.4501 ppb	21:50:10
1	B 249.677†	-153.2	185.9	4.2698 ug/L	4.2698 ppb	21:50:10
1	Ba 233.527†	-2.3	14.0	0.1143 ug/L	0.1143 ppb	21:50:10
1	Be 313.107†	-4579.2	163.9	0.0598 ug/L	0.0598 ppb	21:49:50
1	Cd 226.502†	-183.6	-2.4	-0.0279 ug/L	-0.0279 ppb	21:50:10
1	Co 228.616†	-74.5	-6.4	-0.1345 ug/L	-0.1345 ppb	21:50:10
1	Cr 267.716†	77.5	9.2	0.1006 ug/L	0.1006 ppb	21:50:10
1	Cu 324.752†	9014.0	160.7	0.4572 ug/L	0.4572 ppb	21:49:50
1	Mn 257.610†	583.4	20.8	0.0208 ug/L	0.0208 ppb	21:50:10
1	Mo 202.031†	10.8	0.4	0.0242 ug/L	0.0242 ppb	21:50:10
1	Ni 231.604†	91.0	11.8	0.2845 ug/L	0.2845 ppb	21:50:10
1	P 214.914†	248.1	2.6	1.3679 ug/L	1.3679 ppb	21:50:10
1	Pb 220.353†	-47.3	-2.8	-0.3368 ug/L	-0.3368 ppb	21:50:10
1	S 181.975 Axial†	45.5	3.4	4.5003 ug/L	4.5003 ppb	21:50:10
1	Sb 206.836†	41.3	7.0	2.2689 ug/L	2.2689 ppb	21:50:10
1	Se 196.026†	-20.4	3.1	1.6847 ug/L	1.6847 ppb	21:50:10
1	Si 251.611†	552.6	156.1	4.7680 ug/L	4.7680 ppb	21:50:10
1	Sn 189.927†	9.4	8.5	1.5318 ug/L	1.5318 ppb	21:50:10
1	Ti 334.940†	-1009.2	-7.6	-0.0139 ug/L	-0.0139 ppb	21:49:50
1	Tl 190.801†	-41.3	3.2	1.0312 ug/L	1.0312 ppb	21:50:10
1	U 409.014†	-3011.3	-256.5	-6.5471 ug/L	-6.5471 ppb	21:49:50
1	V 292.402†	-1410.2	37.8	0.2353 ug/L	0.2353 ppb	21:49:50
1	Zn 213.857†	1014.7	107.1	0.9756 ug/L	0.9756 ppb	21:50:10
1	SiO2†	570.4	180.1	11.749 ug/L	11.749 ppb	21:51:16
2	Sc Radial	5504.2	5504.2	104 %		21:48:53
2	Y RADIAL	5799.5	5799.5	105.0 %		21:48:53
2	Al 396.153Radial†	-124.9	-12.8	-10.349 ug/L	-10.349 ppb	21:49:13
2	Ca 317.933Radial†	22.6	1.0	1.6074 ug/L	1.6074 ppb	21:49:13
2	Fe 238.204 Radial†	8.7	-1.7	-16.320 ug/L	-16.320 ppb	21:49:13
2	K 766.490 Radial†	2771.4	-5.3	-0.9576 ug/L	-0.9576 ppb	21:48:53
2	Mg 279.077 IEC†	4.9	3.4	128.32 ug/L	128.32 ppb	21:49:13
2	Na 589.592 Radial†	-637.4	-23.1	-7.0460 ug/L	-7.0460 ppb	21:48:53
2	Sr 421.552†	66.3	-3.2	-0.0200 ug/L	-0.0200 ppb	21:48:53
2	Sc 361.383	991183.3	991183.3	99.919 %		21:50:15
2	Y 371.029	861571.0	861571.0	100.19 %		21:50:15
2	Ag 328.068†	459.5	85.4	0.3620 ug/L	0.3620 ppb	21:50:20
2	As 188.979†	-34.5	2.0	0.8033 ug/L	0.8033 ppb	21:50:40
2	B 249.677†	-165.1	175.9	4.0398 ug/L	4.0398 ppb	21:50:40
2	Ba 233.527†	-16.1	0.3	0.0020 ug/L	0.0020 ppb	21:50:40
2	Be 313.107†	-4616.4	182.3	0.0665 ug/L	0.0665 ppb	21:50:20
2	Cd 226.502†	-178.8	4.6	0.0526 ug/L	0.0526 ppb	21:50:40
2	Co 228.616†	-58.1	10.9	0.2307 ug/L	0.2307 ppb	21:50:40
2	Cr 267.716†	64.5	-4.8	-0.0482 ug/L	-0.0482 ppb	21:50:40
2	Cu 324.752†	8972.4	9.6	0.0294 ug/L	0.0294 ppb	21:50:20
2	Mn 257.610†	578.2	8.5	0.0027 ug/L	0.0027 ppb	21:50:40
2	Mo 202.031†	15.5	4.9	0.3366 ug/L	0.3366 ppb	21:50:40
2	Ni 231.604†	81.0	0.6	0.0155 ug/L	0.0155 ppb	21:50:40

2	P 214.914†	240.2	-8.3	-4.5739 ug/L	-4.5739 ppb	21:50:40
2	Pb 220.353†	-35.3	9.8	1.1734 ug/L	1.1734 ppb	21:50:40
2	S 181.975 Axial†	45.8	3.1	4.1087 ug/L	4.1087 ppb	21:50:40
2	Sb 206.836†	39.6	4.8	1.5550 ug/L	1.5550 ppb	21:50:40
2	Se 196.026†	-15.1	8.7	4.6868 ug/L	4.6868 ppb	21:50:40
2	Si 251.611†	514.5	111.2	3.3942 ug/L	3.3942 ppb	21:50:40
2	Sn 189.927†	6.3	5.2	0.9485 ug/L	0.9485 ppb	21:50:40
2	Ti 334.940†	-1006.8	7.0	0.0030 ug/L	0.0030 ppb	21:50:20
2	Tl 190.801†	-46.5	-1.5	-0.4837 ug/L	-0.4837 ppb	21:50:40
2	U 409.014†	-3021.9	-230.5	-5.8836 ug/L	-5.8836 ppb	21:50:20
2	V 292.402†	-1459.3	5.8	0.0360 ug/L	0.0360 ppb	21:50:20
2	Zn 213.857†	1020.9	100.9	0.9225 ug/L	0.9225 ppb	21:50:40
2	SiO2†	545.6	148.4	9.6687 ug/L	9.6687 ppb	21:51:21
3	Sc Radial	5571.4	5571.4	106 %		21:49:18
3	Y RADIAL	5853.3	5853.3	106.0 %		21:49:18
3	Al 396.153Radial†	-110.0	2.7	2.1928 ug/L	2.1928 ppb	21:49:38
3	Ca 317.933Radial†	21.1	-0.7	-1.1288 ug/L	-1.1288 ppb	21:49:38
3	Fe 238.204 Radial†	9.8	-0.8	-7.3091 ug/L	-7.3091 ppb	21:49:38
3	K 766.490 Radial†	2784.6	-25.0	-4.4920 ug/L	-4.4920 ppb	21:49:18
3	Mg 279.077 IEC†	-0.4	-1.7	-66.622 ug/L	-66.622 ppb	21:49:38
3	Na 589.592 Radial†	-747.3	-119.9	-36.506 ug/L	-36.506 ppb	21:49:18
3	Sr 421.552†	41.4	-27.6	-0.1697 ug/L	-0.1697 ppb	21:49:18
3	Sc 361.383	995101.6	995101.6	100.31 %		21:50:45
3	Y 371.029	863849.5	863849.5	100.45 %		21:50:45
3	Ag 328.068†	327.1	-48.4	-0.2022 ug/L	-0.2022 ppb	21:50:50
3	As 188.979†	-46.3	-9.7	-3.9855 ug/L	-3.9855 ppb	21:51:10
3	B 249.677†	-146.6	195.0	4.4774 ug/L	4.4774 ppb	21:51:10
3	Ba 233.527†	-8.7	7.7	0.0622 ug/L	0.0622 ppb	21:51:10
3	Be 313.107†	-4529.1	287.5	0.1048 ug/L	0.1048 ppb	21:50:50
3	Cd 226.502†	-191.4	-7.2	-0.0814 ug/L	-0.0814 ppb	21:51:10
3	Co 228.616†	-69.6	-0.4	-0.0061 ug/L	-0.0061 ppb	21:51:10
3	Cr 267.716†	59.2	-10.2	-0.1057 ug/L	-0.1057 ppb	21:51:10
3	Cu 324.752†	8904.4	-93.6	-0.2609 ug/L	-0.2609 ppb	21:50:50
3	Mn 257.610†	591.4	19.4	0.0238 ug/L	0.0238 ppb	21:51:10
3	Mo 202.031†	18.1	7.5	0.5142 ug/L	0.5142 ppb	21:51:10
3	Ni 231.604†	97.9	17.1	0.4137 ug/L	0.4137 ppb	21:51:10
3	P 214.914†	251.6	2.2	1.2662 ug/L	1.2662 ppb	21:51:10
3	Pb 220.353†	-50.8	-5.5	-0.6623 ug/L	-0.6623 ppb	21:51:10
3	S 181.975 Axial†	46.8	3.9	5.2664 ug/L	5.2664 ppb	21:51:10
3	Sb 206.836†	45.0	10.0	3.2531 ug/L	3.2531 ppb	21:51:10
3	Se 196.026†	-18.1	5.7	3.1146 ug/L	3.1146 ppb	21:51:10
3	Si 251.611†	537.9	132.6	4.0432 ug/L	4.0432 ppb	21:51:10
3	Sn 189.927†	10.8	9.7	1.7567 ug/L	1.7567 ppb	21:51:10
3	Ti 334.940†	-1036.7	-18.8	-0.0202 ug/L	-0.0202 ppb	21:50:50
3	Tl 190.801†	-49.3	-4.1	-1.3231 ug/L	-1.3231 ppb	21:51:10
3	U 409.014†	-3071.7	-268.3	-6.8488 ug/L	-6.8488 ppb	21:50:50
3	V 292.402†	-1470.6	0.2	-0.0045 ug/L	-0.0045 ppb	21:50:50
3	Zn 213.857†	1029.7	105.7	0.9631 ug/L	0.9631 ppb	21:51:10
3	SiO2†	560.9	161.4	10.513 ug/L	10.513 ppb	21:51:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	988527.2	99.651 %	0.8297			0.83%
Sc Radial	5507.5	104 %	1.2			1.13%
Y 371.029	858428.8	99.822 %	0.8725			0.87%
Y RADIAL	5799.9	105.0 %	0.97			0.92%
Ag 328.068†	49.2	0.2114 ug/L	0.36261	0.2114 ppb	0.36261	171.53%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.9	-1.5309 ug/L	7.66739	-1.5309 ppb	7.66739	500.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-0.5774 ug/L	2.96920	-0.5774 ppb	2.96920	514.25%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	185.6	4.2623 ug/L	0.21891	4.2623 ppb	0.21891	5.14%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.3	0.0595 ug/L	0.05617	0.0595 ppb	0.05617	94.44%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	211.3	0.0771 ug/L	0.02430	0.0771 ppb	0.02430	31.54%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.1	-1.8474 ug/L	3.86452	-1.8474 ppb	3.86452	209.19%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-1.7	-0.0189 ug/L	0.06746	-0.0189 ppb	0.06746	356.48%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.4	0.0300 ug/L	0.18528	0.0300 ppb	0.18528	616.84%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1.9	-0.0178 ug/L	0.10645	-0.0178 ppb	0.10645	598.46%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	25.6	0.0752 ug/L	0.36123	0.0752 ppb	0.36123	480.29%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.0	-9.2918 ug/L	6.27583	-9.2918 ppb	6.27583	67.54%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-43.3	-7.7990 ug/L	8.96466	-7.7990 ppb	8.96466	114.95%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.0	38.407 ug/L	98.3451	38.407 ppb	98.3451	256.06%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	16.2	0.0158 ug/L	0.01140	0.0158 ppb	0.01140	72.26%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.3	0.2917 ug/L	0.24809	0.2917 ppb	0.24809	85.05%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-97.7	-29.754 ug/L	20.1972	-29.754 ppb	20.1972	67.88%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.8	0.2379 ug/L	0.20313	0.2379 ppb	0.20313	85.38%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.2	-0.6466 ug/L	3.40148	-0.6466 ppb	3.40148	526.05%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.5	0.0581 ug/L	0.97946	0.0581 ppb	0.97946	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.4	4.6251 ug/L	0.58889	4.6251 ppb	0.58889	12.73%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.3	2.3590 ug/L	0.85263	2.3590 ppb	0.85263	36.14%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.8	3.1620 ug/L	1.50164	3.1620 ppb	1.50164	47.49%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	133.3	4.0685 ug/L	0.68724	4.0685 ppb	0.68724	16.89%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.8	1.4124 ug/L	0.41712	1.4124 ppb	0.41712	29.53%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-16.2	-0.0997 ug/L	0.07535	-0.0997 ppb	0.07535	75.54%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-6.5	-0.0104 ug/L	0.01199	-0.0104 ppb	0.01199	115.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.8	-0.2586 ug/L	1.19322	-0.2586 ppb	1.19322	461.50%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-251.8	-6.4265 ug/L	0.49374	-6.4265 ppb	0.49374	7.68%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	14.6	0.0889 ug/L	0.12835	0.0889 ppb	0.12835	144.36%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	104.6	0.9537 ug/L	0.02778	0.9537 ppb	0.02778	2.91%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	163.3	10.643 ug/L	1.0461	10.643 ppb	1.0461	9.83%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 48

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/29/2010 22:57:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	5442.8	5442.8	103 %			22:59:35
1	Y RADIAL	5688.4	5688.4	103.0 %			22:59:35
1	Al 396.153Radial†	6233.5	6147.8	4941.7 ug/L		4941.7 ppb	22:59:35
1	Ca 317.933Radial†	3198.6	3079.1	5125.7 ug/L		5125.7 ppb	22:59:55
1	Fe 238.204 Radial†	577.8	549.9	5288.0 ug/L		5288.0 ppb	22:59:55
1	K 766.490 Radial†	31998.7	28348.9	5112.5 ug/L		5112.5 ppb	22:59:35
1	Mg 279.077 IEC†	141.9	136.2	5198.8 ug/L		5198.8 ppb	22:59:55
1	Na 589.592 Radial†	35031.8	34537.1	10518 ug/L		10518 ppb	22:59:35
1	Sr 421.552†	86394.5	83658.6	515.24 ug/L		515.24 ppb	22:59:35
1	Sc 361.383	989440.0	989440.0	99.743 %			23:00:52
1	Y 371.029	850159.9	850159.9	98.860 %			23:00:52
1	Ag 328.068†	120573.5	120509.2	514.70 ug/L		514.70 ppb	23:00:57
1	As 188.979†	1190.2	1229.8	509.89 ug/L		509.89 ppb	23:01:17
1	B 249.677†	21661.5	22058.3	504.14 ug/L		504.14 ppb	23:00:57
1	Ba 233.527†	62953.8	63132.2	513.31 ug/L		513.31 ppb	23:00:57
1	Be 313.107†	1413183.5	1421621.9	519.84 ug/L		519.84 ppb	23:00:52
1	Cd 226.502†	45403.5	45703.8	513.12 ug/L		513.12 ppb	23:00:57
1	Co 228.616†	24110.2	24241.2	512.43 ug/L		512.43 ppb	23:00:57
1	Cr 267.716†	48342.9	48398.0	512.72 ug/L		512.72 ppb	23:00:57
1	Cu 324.752†	189005.9	180522.0	509.66 ug/L		509.66 ppb	23:00:57
1	Mn 257.610†	459458.8	460070.8	517.36 ug/L		517.36 ppb	23:00:52
1	Mo 202.031†	7366.3	7374.7	506.91 ug/L		506.91 ppb	23:01:17
1	Ni 231.604†	21394.5	21369.1	516.92 ug/L		516.92 ppb	23:00:57
1	P 214.914†	4817.9	4581.6	2432.8 ug/L		2432.8 ppb	23:01:17
1	Pb 220.353†	4183.4	4239.3	511.30 ug/L		511.30 ppb	23:01:17
1	S 181.975 Axial†	801.4	760.7	1020.7 ug/L		1020.7 ppb	23:01:17
1	Sb 206.836†	1593.0	1562.3	520.08 ug/L		520.08 ppb	23:01:17
1	Se 196.026†	908.6	934.7	531.36 ug/L		531.36 ppb	23:01:17
1	Si 251.611†	84098.6	83911.3	2557.0 ug/L		2557.0 ppb	23:00:57
1	Sn 189.927†	2770.0	2776.1	504.42 ug/L		504.42 ppb	23:01:17
1	Ti 334.940†	328736.1	330596.5	501.29 ug/L		501.29 ppb	23:00:57
1	Tl 190.801†	1514.2	1563.1	509.27 ug/L		509.27 ppb	23:01:17
1	U 409.014†	17136.6	19974.5	508.18 ug/L		508.18 ppb	23:00:57
1	V 292.402†	76780.4	78444.2	517.16 ug/L		517.16 ppb	23:00:57
1	Zn 213.857†	57033.1	56259.1	509.05 ug/L		509.05 ppb	23:00:57
1	SiO2†	84023.3	83841.8	5454.4 ug/L		5454.4 ppb	23:02:25
2	Sc Radial	5509.0	5509.0	104 %			23:00:00
2	Y RADIAL	5762.4	5762.4	104.3 %			23:00:00
2	Al 396.153Radial†	6238.1	6079.6	4886.6 ug/L		4886.6 ppb	23:00:00
2	Ca 317.933Radial†	3194.1	3037.5	5056.4 ug/L		5056.4 ppb	23:00:20
2	Fe 238.204 Radial†	579.8	545.0	5241.6 ug/L		5241.6 ppb	23:00:20
2	K 766.490 Radial†	32076.8	28050.8	5058.7 ug/L		5058.7 ppb	23:00:00
2	Mg 279.077 IEC†	141.3	133.9	5112.3 ug/L		5112.3 ppb	23:00:20
2	Na 589.592 Radial†	35189.6	34280.0	10440 ug/L		10440 ppb	23:00:00
2	Sr 421.552†	87027.5	83257.8	512.77 ug/L		512.77 ppb	23:00:00
2	Sc 361.383	993193.3	993193.3	100.12 %			23:01:23
2	Y 371.029	853495.8	853495.8	99.248 %			23:01:23
2	Ag 328.068†	120555.5	120034.4	512.67 ug/L		512.67 ppb	23:01:28
2	As 188.979†	1199.2	1234.2	511.70 ug/L		511.70 ppb	23:01:48
2	B 249.677†	21719.5	22034.2	503.60 ug/L		503.60 ppb	23:01:28
2	Ba 233.527†	62826.9	62766.9	510.35 ug/L		510.35 ppb	23:01:28
2	Be 313.107†	1416437.1	1419517.4	519.07 ug/L		519.07 ppb	23:01:23
2	Cd 226.502†	45427.5	45555.8	511.46 ug/L		511.46 ppb	23:01:28
2	Co 228.616†	24059.0	24098.8	509.43 ug/L		509.43 ppb	23:01:28
2	Cr 267.716†	48278.0	48150.0	510.09 ug/L		510.09 ppb	23:01:28
2	Cu 324.752†	189176.3	179976.2	508.12 ug/L		508.12 ppb	23:01:28
2	Mn 257.610†	460508.3	459378.2	516.58 ug/L		516.58 ppb	23:01:23
2	Mo 202.031†	7398.2	7378.6	507.17 ug/L		507.17 ppb	23:01:48
2	Ni 231.604†	21264.5	21158.2	511.82 ug/L		511.82 ppb	23:01:28

2	P 214.914†	4836.4	4581.8	2433.3 ug/L	2433.3 ppb	23:01:48
2	Pb 220.353†	4179.3	4219.3	508.90 ug/L	508.90 ppb	23:01:48
2	S 181.975 Axial†	800.7	757.0	1015.7 ug/L	1015.7 ppb	23:01:48
2	Sb 206.836†	1591.6	1554.8	517.66 ug/L	517.66 ppb	23:01:48
2	Se 196.026†	903.3	926.0	526.44 ug/L	526.44 ppb	23:01:48
2	Si 251.611†	83948.1	83442.3	2542.7 ug/L	2542.7 ppb	23:01:28
2	Sn 189.927†	2775.4	2770.9	503.48 ug/L	503.48 ppb	23:01:48
2	Ti 334.940†	328974.7	329589.4	499.76 ug/L	499.76 ppb	23:01:28
2	Tl 190.801†	1534.1	1577.3	513.86 ug/L	513.86 ppb	23:01:48
2	U 409.014†	17062.2	19835.3	504.64 ug/L	504.64 ppb	23:01:28
2	V 292.402†	76897.1	78269.8	516.03 ug/L	516.03 ppb	23:01:28
2	Zn 213.857†	56852.8	55862.9	505.47 ug/L	505.47 ppb	23:01:28
2	SiO2†	84230.0	83729.9	5447.1 ug/L	5447.1 ppb	23:02:30
3	Sc Radial	5553.1	5553.1	105 %		23:00:25
3	Y RADIAL	5783.6	5783.6	104.7 %		23:00:25
3	Al 396.153Radial†	6263.7	6056.6	4867.9 ug/L	4867.9 ppb	23:00:25
3	Ca 317.933Radial†	3182.7	3002.5	4998.0 ug/L	4998.0 ppb	23:00:45
3	Fe 238.204 Radial†	578.8	539.7	5190.8 ug/L	5190.8 ppb	23:00:45
3	K 766.490 Radial†	32312.9	28031.6	5055.3 ug/L	5055.3 ppb	23:00:25
3	Mg 279.077 IEC†	146.7	138.0	5268.0 ug/L	5268.0 ppb	23:00:45
3	Na 589.592 Radial†	35504.8	34312.3	10450 ug/L	10450 ppb	23:00:25
3	Sr 421.552†	87643.7	83182.7	512.31 ug/L	512.31 ppb	23:00:25
3	Sc 361.383	989694.6	989694.6	99.769 %		23:01:54
3	Y 371.029	851426.3	851426.3	99.008 %		23:01:54
3	Ag 328.068†	121061.2	120967.0	516.63 ug/L	516.63 ppb	23:01:59
3	As 188.979†	1200.8	1240.1	514.12 ug/L	514.12 ppb	23:02:19
3	B 249.677†	21819.8	22211.4	507.66 ug/L	507.66 ppb	23:01:59
3	Ba 233.527†	63363.1	63526.2	516.52 ug/L	516.52 ppb	23:01:59
3	Be 313.107†	1415726.3	1423806.1	520.65 ug/L	520.65 ppb	23:01:54
3	Cd 226.502†	45827.9	46117.5	517.78 ug/L	517.78 ppb	23:01:59
3	Co 228.616†	24303.8	24429.2	516.41 ug/L	516.41 ppb	23:01:59
3	Cr 267.716†	48679.9	48723.3	516.16 ug/L	516.16 ppb	23:01:59
3	Cu 324.752†	189496.0	180964.5	510.91 ug/L	510.91 ppb	23:01:59
3	Mn 257.610†	459088.6	459581.2	516.80 ug/L	516.80 ppb	23:01:54
3	Mo 202.031†	7408.4	7415.0	509.67 ug/L	509.67 ppb	23:02:19
3	Ni 231.604†	21444.4	21413.6	518.00 ug/L	518.00 ppb	23:01:59
3	P 214.914†	4824.5	4587.0	2435.6 ug/L	2435.6 ppb	23:02:19
3	Pb 220.353†	4189.6	4244.4	511.92 ug/L	511.92 ppb	23:02:19
3	S 181.975 Axial†	807.4	766.6	1028.6 ug/L	1028.6 ppb	23:02:19
3	Sb 206.836†	1597.8	1566.7	521.57 ug/L	521.57 ppb	23:02:19
3	Se 196.026†	897.1	922.9	524.57 ug/L	524.57 ppb	23:02:19
3	Si 251.611†	84456.3	84248.2	2567.3 ug/L	2567.3 ppb	23:01:59
3	Sn 189.927†	2779.3	2784.6	505.95 ug/L	505.95 ppb	23:02:19
3	Ti 334.940†	330242.3	332021.5	503.42 ug/L	503.42 ppb	23:01:59
3	Tl 190.801†	1528.6	1577.1	513.80 ug/L	513.80 ppb	23:02:19
3	U 409.014†	17315.3	20149.2	512.64 ug/L	512.64 ppb	23:01:59
3	V 292.402†	77442.1	79087.6	521.41 ug/L	521.41 ppb	23:01:59
3	Zn 213.857†	57313.0	56524.9	511.48 ug/L	511.48 ppb	23:01:59
3	SiO2†	83194.4	82989.3	5398.7 ug/L	5398.7 ppb	23:02:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	990776.0	99.878 %	0.2114			0.21%
Sc Radial	5501.6	104 %	1.1			1.01%
Y 371.029	851694.0	99.039 %	0.1958			0.20%
Y RADIAL	5744.8	104.0 %	0.91			0.87%
Ag 328.068†	120503.5	514.66 ug/L	1.979	514.66 ppb	1.979	0.38%
QC value within limits for Ag 328.068 Recovery = 102.93%						
Al 396.153Radial†	6094.7	4898.7 ug/L	38.38	4898.7 ppb	38.38	0.78%
QC value within limits for Al 396.153Radial Recovery = 97.97%						
As 188.979†	1234.7	511.90 ug/L	2.124	511.90 ppb	2.124	0.41%
QC value within limits for As 188.979 Recovery = 102.38%						
B 249.677†	22101.3	505.13 ug/L	2.204	505.13 ppb	2.204	0.44%
QC value within limits for B 249.677 Recovery = 101.03%						
Ba 233.527†	63141.8	513.39 ug/L	3.085	513.39 ppb	3.085	0.60%
QC value within limits for Ba 233.527 Recovery = 102.68%						
Be 313.107†	1421648.4	519.85 ug/L	0.787	519.85 ppb	0.787	0.15%
QC value within limits for Be 313.107 Recovery = 103.97%						
Ca 317.933Radial†	3039.7	5060.0 ug/L	63.90	5060.0 ppb	63.90	1.26%

QC value within limits for Ca 317.933 Radial Recovery = 101.20%							
Cd 226.502†	45792.4	514.12 ug/L	3.276	514.12 ppb	3.276	0.64%	
QC value within limits for Cd 226.502 Recovery = 102.82%							
Co 228.616†	24256.4	512.76 ug/L	3.502	512.76 ppb	3.502	0.68%	
QC value within limits for Co 228.616 Recovery = 102.55%							
Cr 267.716†	48423.8	512.99 ug/L	3.044	512.99 ppb	3.044	0.59%	
QC value within limits for Cr 267.716 Recovery = 102.60%							
Cu 324.752†	180487.6	509.57 ug/L	1.394	509.57 ppb	1.394	0.27%	
QC value within limits for Cu 324.752 Recovery = 101.91%							
Fe 238.204 Radial†	544.9	5240.1 ug/L	48.62	5240.1 ppb	48.62	0.93%	
QC value within limits for Fe 238.204 Radial Recovery = 104.80%							
K 766.490 Radial†	28143.8	5075.5 ug/L	32.09	5075.5 ppb	32.09	0.63%	
QC value within limits for K 766.490 Radial Recovery = 101.51%							
Mg 279.077 IEC†	136.0	5193.1 ug/L	78.04	5193.1 ppb	78.04	1.50%	
QC value within limits for Mg 279.077 IEC Recovery = 103.86%							
Mn 257.610†	459676.7	516.92 ug/L	0.402	516.92 ppb	0.402	0.08%	
QC value within limits for Mn 257.610 Recovery = 103.38%							
Mo 202.031†	7389.4	507.92 ug/L	1.521	507.92 ppb	1.521	0.30%	
QC value within limits for Mo 202.031 Recovery = 101.58%							
Na 589.592 Radial†	34376.5	10469 ug/L	42.7	10469 ppb	42.7	0.41%	
QC value within limits for Na 589.592 Radial Recovery = 104.69%							
Ni 231.604†	21313.6	515.58 ug/L	3.300	515.58 ppb	3.300	0.64%	
QC value within limits for Ni 231.604 Recovery = 103.12%							
P 214.914†	4583.5	2433.9 ug/L	1.51	2433.9 ppb	1.51	0.06%	
QC value within limits for P 214.914 Recovery = 97.36%							
Pb 220.353†	4234.3	510.70 ug/L	1.596	510.70 ppb	1.596	0.31%	
QC value within limits for Pb 220.353 Recovery = 102.14%							
S 181.975 Axial†	761.4	1021.7 ug/L	6.47	1021.7 ppb	6.47	0.63%	
QC value within limits for S 181.975 Axial Recovery = 102.17%							
Sb 206.836†	1561.2	519.77 ug/L	1.976	519.77 ppb	1.976	0.38%	
QC value within limits for Sb 206.836 Recovery = 103.95%							
Se 196.026†	927.8	527.46 ug/L	3.508	527.46 ppb	3.508	0.67%	
QC value within limits for Se 196.026 Recovery = 105.49%							
Si 251.611†	83867.3	2555.7 ug/L	12.35	2555.7 ppb	12.35	0.48%	
QC value within limits for Si 251.611 Recovery = 102.23%							
Sn 189.927†	2777.2	504.62 ug/L	1.248	504.62 ppb	1.248	0.25%	
QC value within limits for Sn 189.927 Recovery = 100.92%							
Sr 421.552†	83366.4	513.44 ug/L	1.575	513.44 ppb	1.575	0.31%	
QC value within limits for Sr 421.552 Recovery = 102.69%							
Ti 334.940†	330735.8	501.49 ug/L	1.840	501.49 ppb	1.840	0.37%	
QC value within limits for Ti 334.940 Recovery = 100.30%							
Tl 190.801†	1572.5	512.31 ug/L	2.632	512.31 ppb	2.632	0.51%	
QC value within limits for Tl 190.801 Recovery = 102.46%							
U 409.014†	19986.3	508.49 ug/L	4.012	508.49 ppb	4.012	0.79%	
QC value within limits for U 409.014 Recovery = 101.70%							
V 292.402†	78600.5	518.20 ug/L	2.835	518.20 ppb	2.835	0.55%	
QC value within limits for V 292.402 Recovery = 103.64%							
Zn 213.857†	56215.6	508.67 ug/L	3.021	508.67 ppb	3.021	0.59%	
QC value within limits for Zn 213.857 Recovery = 101.73%							
SiO2†	83520.3	5433.4 ug/L	30.26	5433.4 ppb	30.26	0.56%	
QC value within limits for SiO2 Recovery = 101.61%							
All analyte(s) passed QC.							

Sequence No.: 49

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/29/2010 23:04:46

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	5438.0	5438.0	103 %		23:06:37
1	Y RADIAL	5746.2	5746.2	104.0 %		23:06:37
1	Al 396.153Radial†	-118.6	-8.1	-6.5599 ug/L	-6.5599 ppb	23:06:57
1	Ca 317.933Radial†	27.2	5.7	9.4267 ug/L	9.4267 ppb	23:06:57
1	Fe 238.204 Radial†	10.0	-0.4	-3.6080 ug/L	-3.6080 ppb	23:06:57
1	K 766.490 Radial†	2829.7	83.5	15.087 ug/L	15.087 ppb	23:06:37
1	Mg 279.077 IEC†	1.3	-0.1	-2.4864 ug/L	-2.4864 ppb	23:06:57
1	Na 589.592 Radial†	-733.2	-123.6	-37.635 ug/L	-37.635 ppb	23:06:37
1	Sr 421.552†	60.0	-8.6	-0.0529 ug/L	-0.0529 ppb	23:06:37
1	Sc 361.383	973878.4	973878.4	98.175 %		23:07:54
1	Y 371.029	846143.8	846143.8	98.393 %		23:07:54
1	Ag 328.068†	364.3	-3.4	-0.0150 ug/L	-0.0150 ppb	23:07:59
1	As 188.979†	-28.2	7.8	3.1950 ug/L	3.1950 ppb	23:08:19
1	B 249.677†	-229.5	107.3	2.4648 ug/L	2.4648 ppb	23:08:19
1	Ba 233.527†	-7.1	9.1	0.0742 ug/L	0.0742 ppb	23:08:19
1	Be 313.107†	-4640.1	76.1	0.0277 ug/L	0.0277 ppb	23:07:59
1	Cd 226.502†	-181.6	-1.4	-0.0160 ug/L	-0.0160 ppb	23:08:19
1	Co 228.616†	-71.9	-4.2	-0.0874 ug/L	-0.0874 ppb	23:08:19
1	Cr 267.716†	81.1	13.4	0.1415 ug/L	0.1415 ppb	23:08:19
1	Cu 324.752†	8941.7	137.8	0.3891 ug/L	0.3891 ppb	23:07:59
1	Mn 257.610†	597.6	38.6	0.0431 ug/L	0.0431 ppb	23:08:19
1	Mo 202.031†	12.5	2.2	0.1506 ug/L	0.1506 ppb	23:08:19
1	Ni 231.604†	78.0	-1.0	-0.0251 ug/L	-0.0251 ppb	23:08:19
1	P 214.914†	234.9	-9.4	-5.2305 ug/L	-5.2305 ppb	23:08:19
1	Pb 220.353†	-42.9	1.5	0.1737 ug/L	0.1737 ppb	23:08:19
1	S 181.975 Axial†	39.2	-2.8	-3.8096 ug/L	-3.8096 ppb	23:08:19
1	Sb 206.836†	42.8	8.7	2.8464 ug/L	2.8464 ppb	23:08:19
1	Se 196.026†	-15.3	8.1	4.4441 ug/L	4.4441 ppb	23:08:19
1	Si 251.611†	485.8	91.2	2.7847 ug/L	2.7847 ppb	23:08:19
1	Sn 189.927†	17.2	16.4	2.9794 ug/L	2.9794 ppb	23:08:19
1	Ti 334.940†	-1020.2	-24.5	-0.0356 ug/L	-0.0356 ppb	23:07:59
1	Tl 190.801†	-39.2	5.1	1.6364 ug/L	1.6364 ppb	23:08:19
1	U 409.014†	-2753.3	-10.7	-0.2723 ug/L	-0.2723 ppb	23:07:54
1	V 292.402†	-1419.1	20.8	0.1373 ug/L	0.1373 ppb	23:07:59
1	Zn 213.857†	1026.1	124.4	1.1351 ug/L	1.1351 ppb	23:08:19
1	SiO2†	462.6	73.5	4.7898 ug/L	4.7898 ppb	23:09:25
2	Sc Radial	5494.5	5494.5	104 %		23:07:02
2	Y RADIAL	5799.5	5799.5	105.0 %		23:07:02
2	Al 396.153Radial†	-121.7	-9.9	-8.0377 ug/L	-8.0377 ppb	23:07:23
2	Ca 317.933Radial†	29.2	7.3	12.227 ug/L	12.227 ppb	23:07:23
2	Fe 238.204 Radial†	11.1	0.6	5.3821 ug/L	5.3821 ppb	23:07:23
2	K 766.490 Radial†	2637.5	-129.3	-23.329 ug/L	-23.329 ppb	23:07:02
2	Mg 279.077 IEC†	1.9	0.5	17.834 ug/L	17.834 ppb	23:07:23
2	Na 589.592 Radial†	-779.0	-160.2	-48.789 ug/L	-48.789 ppb	23:07:02
2	Sr 421.552†	62.8	-6.4	-0.0397 ug/L	-0.0397 ppb	23:07:02
2	Sc 361.383	984533.8	984533.8	99.249 %		23:08:25
2	Y 371.029	855806.5	855806.5	99.517 %		23:08:25
2	Ag 328.068†	501.5	130.7	0.5562 ug/L	0.5562 ppb	23:08:30
2	As 188.979†	-33.5	2.7	1.1258 ug/L	1.1258 ppb	23:08:50
2	B 249.677†	-204.3	135.3	3.1059 ug/L	3.1059 ppb	23:08:50
2	Ba 233.527†	0.7	17.1	0.1389 ug/L	0.1389 ppb	23:08:50
2	Be 313.107†	-4547.1	221.0	0.0808 ug/L	0.0808 ppb	23:08:30
2	Cd 226.502†	-167.5	14.7	0.1653 ug/L	0.1653 ppb	23:08:50
2	Co 228.616†	-83.1	-14.6	-0.3091 ug/L	-0.3091 ppb	23:08:50
2	Cr 267.716†	86.8	18.2	0.1925 ug/L	0.1925 ppb	23:08:50
2	Cu 324.752†	8795.5	-108.0	-0.3047 ug/L	-0.3047 ppb	23:08:30
2	Mn 257.610†	640.5	75.2	0.0844 ug/L	0.0844 ppb	23:08:50
2	Mo 202.031†	12.8	2.3	0.1584 ug/L	0.1584 ppb	23:08:50
2	Ni 231.604†	102.5	22.8	0.5521 ug/L	0.5521 ppb	23:08:50

2	P 214.914†	248.6	1.8	1.0401 ug/L	1.0401 ppb	23:08:50
2	Pb 220.353†	-28.9	16.1	1.9300 ug/L	1.9300 ppb	23:08:50
2	S 181.975 Axial†	43.4	0.9	1.2566 ug/L	1.2566 ppb	23:08:50
2	Sb 206.836†	38.5	4.0	1.2844 ug/L	1.2844 ppb	23:08:50
2	Se 196.026†	-10.6	13.1	7.1684 ug/L	7.1684 ppb	23:08:50
2	Si 251.611†	476.3	76.3	2.3279 ug/L	2.3279 ppb	23:08:50
2	Sn 189.927†	4.5	3.4	0.6275 ug/L	0.6275 ppb	23:08:50
2	Ti 334.940†	-956.7	50.7	0.0770 ug/L	0.0770 ppb	23:08:30
2	Tl 190.801†	-31.0	13.8	4.4525 ug/L	4.4525 ppb	23:08:50
2	U 409.014†	-2770.8	2.0	0.0502 ug/L	0.0502 ppb	23:08:25
2	V 292.402†	-1461.7	-6.5	-0.0408 ug/L	-0.0408 ppb	23:08:30
2	Zn 213.857†	1005.1	91.9	0.8353 ug/L	0.8353 ppb	23:08:50
2	SiO2†	475.1	81.0	5.2800 ug/L	5.2800 ppb	23:09:30
3	Sc Radial	5453.0	5453.0	103 %		23:07:28
3	Y RADIAL	5716.2	5716.2	103.5 %		23:07:28
3	Al 396.153Radial†	-110.4	0.1	0.0937 ug/L	0.0937 ppb	23:07:48
3	Ca 317.933Radial†	23.2	1.7	2.8878 ug/L	2.8878 ppb	23:07:48
3	Fe 238.204 Radial†	8.7	-1.7	-16.074 ug/L	-16.074 ppb	23:07:48
3	K 766.490 Radial†	2733.8	-16.8	-3.0337 ug/L	-3.0337 ppb	23:07:28
3	Mg 279.077 IEC†	1.7	0.3	12.103 ug/L	12.103 ppb	23:07:48
3	Na 589.592 Radial†	-675.2	-65.5	-19.936 ug/L	-19.936 ppb	23:07:28
3	Sr 421.552†	93.8	24.0	0.1477 ug/L	0.1477 ppb	23:07:28
3	Sc 361.383	988608.3	988608.3	99.660 %		23:08:55
3	Y 371.029	859210.7	859210.7	99.913 %		23:08:55
3	Ag 328.068†	360.8	-12.5	-0.0570 ug/L	-0.0570 ppb	23:09:00
3	As 188.979†	-35.5	0.9	0.3817 ug/L	0.3817 ppb	23:09:20
3	B 249.677†	-260.4	79.8	1.8357 ug/L	1.8357 ppb	23:09:20
3	Ba 233.527†	-19.3	-3.0	-0.0244 ug/L	-0.0244 ppb	23:09:20
3	Be 313.107†	-4593.0	193.8	0.0708 ug/L	0.0708 ppb	23:09:00
3	Cd 226.502†	-160.7	22.3	0.2516 ug/L	0.2516 ppb	23:09:20
3	Co 228.616†	-79.2	-10.4	-0.2187 ug/L	-0.2187 ppb	23:09:20
3	Cr 267.716†	65.5	-3.6	-0.0378 ug/L	-0.0378 ppb	23:09:20
3	Cu 324.752†	8925.6	-14.1	-0.0400 ug/L	-0.0400 ppb	23:09:00
3	Mn 257.610†	630.5	62.5	0.0682 ug/L	0.0682 ppb	23:09:20
3	Mo 202.031†	14.0	3.4	0.2347 ug/L	0.2347 ppb	23:09:20
3	Ni 231.604†	86.9	6.7	0.1621 ug/L	0.1621 ppb	23:09:20
3	P 214.914†	247.2	-0.6	-0.2964 ug/L	-0.2964 ppb	23:09:20
3	Pb 220.353†	-37.5	7.6	0.9102 ug/L	0.9102 ppb	23:09:20
3	S 181.975 Axial†	40.2	-2.5	-3.3002 ug/L	-3.3002 ppb	23:09:20
3	Sb 206.836†	45.3	10.6	3.4208 ug/L	3.4208 ppb	23:09:20
3	Se 196.026†	-18.6	5.1	2.7167 ug/L	2.7167 ppb	23:09:20
3	Si 251.611†	493.0	91.0	2.7773 ug/L	2.7773 ppb	23:09:20
3	Sn 189.927†	6.8	5.7	1.0304 ug/L	1.0304 ppb	23:09:20
3	Ti 334.940†	-992.6	18.7	0.0282 ug/L	0.0282 ppb	23:09:00
3	Tl 190.801†	-41.2	3.7	1.1862 ug/L	1.1862 ppb	23:09:20
3	U 409.014†	-2823.9	-39.7	-1.0115 ug/L	-1.0115 ppb	23:08:55
3	V 292.402†	-1444.1	17.2	0.1157 ug/L	0.1157 ppb	23:09:00
3	Zn 213.857†	1018.7	101.4	0.9263 ug/L	0.9263 ppb	23:09:20
3	SiO2†	495.0	99.0	6.4480 ug/L	6.4480 ppb	23:09:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	982340.2	99.028 %	0.7667			0.77%
Sc Radial	5461.8	104 %	0.6			0.54%
Y 371.029	853720.3	99.274 %	0.7883			0.79%
Y RADIAL	5753.9	104.2 %	0.76			0.73%
Ag 328.068†	38.3	0.1614 ug/L	0.34256	0.1614 ppb	0.34256	212.22%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.0	-4.8346 ug/L	4.33157	-4.8346 ppb	4.33157	89.60%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.8	1.5675 ug/L	1.45774	1.5675 ppb	1.45774	93.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	107.5	2.4688 ug/L	0.63514	2.4688 ppb	0.63514	25.73%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.8	0.0629 ug/L	0.08224	0.0629 ppb	0.08224	130.73%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	163.6	0.0598 ug/L	0.02823	0.0598 ppb	0.02823	47.25%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.9	8.1806 ug/L	4.79285	8.1806 ppb	4.79285	58.59%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	11.9	0.1336 ug/L	0.13656	0.1336 ppb	0.13656	102.19%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-9.7	-0.2051 ug/L	0.11145	-0.2051 ppb	0.11145	54.34%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	9.3	0.0987 ug/L	0.12093	0.0987 ppb	0.12093	122.46%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	5.3	0.0148 ug/L	0.35012	0.0148 ppb	0.35012	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.5	-4.7667 ug/L	10.77496	-4.7667 ppb	10.77496	226.05%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-20.9	-3.7588 ug/L	19.21813	-3.7588 ppb	19.21813	511.29%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.2	9.1501 ug/L	10.47702	9.1501 ppb	10.47702	114.50%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	58.8	0.0652 ug/L	0.02079	0.0652 ppb	0.02079	31.88%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.6	0.1812 ug/L	0.04649	0.1812 ppb	0.04649	25.65%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-116.4	-35.453 ug/L	14.5497	-35.453 ppb	14.5497	41.04%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.5	0.2297 ug/L	0.29451	0.2297 ppb	0.29451	128.22%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.7	-1.4956 ug/L	3.30282	-1.4956 ppb	3.30282	220.84%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	8.4	1.0046 ug/L	0.88195	1.0046 ppb	0.88195	87.79%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.5	-1.9511 ug/L	2.78959	-1.9511 ppb	2.78959	142.98%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.8	2.5172 ug/L	1.10558	2.5172 ppb	1.10558	43.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	8.7	4.7764 ug/L	2.24438	4.7764 ppb	2.24438	46.99%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	86.2	2.6300 ug/L	0.26165	2.6300 ppb	0.26165	9.95%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	8.5	1.5458 ug/L	1.25780	1.5458 ppb	1.25780	81.37%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	3.0	0.0184 ug/L	0.11220	0.0184 ppb	0.11220	611.07%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	14.9	0.0232 ug/L	0.05648	0.0232 ppb	0.05648	243.76%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	7.5	2.4250 ug/L	1.77023	2.4250 ppb	1.77023	73.00%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-16.1	-0.4112 ug/L	0.54428	-0.4112 ppb	0.54428	132.37%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	10.5	0.0707 ug/L	0.09717	0.0707 ppb	0.09717	137.40%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	105.9	0.9656 ug/L	0.15373	0.9656 ppb	0.15373	15.92%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	84.5	5.5059 ug/L	0.85191	5.5059 ppb	0.85191	15.47%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 50

Sample ID: 1202015835|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 62

Date Collected: 1/29/2010 23:11:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015835|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5510.2	5510.2	104 %			23:13:38
1	Y RADIAL	5801.4	5801.4	105.0 %			23:13:38
1	Al 396.153Radial†	-105.1	6.3	5.1137 ug/L		5.1137 ppb	23:13:58
1	Ca 317.933Radial†	33.6	11.4	19.058 ug/L		19.058 ppb	23:13:58
1	Fe 238.204 Radial†	17.1	6.3	60.822 ug/L		60.822 ppb	23:13:58
1	K 766.490 Radial†	2512.3	-256.3	-46.276 ug/L		-46.276 ppb	23:13:38
1	Mg 279.077 IEC†	2.3	0.8	32.165 ug/L		32.165 ppb	23:13:58
1	Na 589.592 Radial†	-665.0	-49.0	-14.911 ug/L		-14.911 ppb	23:13:38
1	Sr 421.552†	75.4	5.5	0.0336 ug/L		0.0336 ppb	23:13:38
1	Sc 361.383	992953.7	992953.7	100.10 %			23:14:55
1	Y 371.029	862080.3	862080.3	100.25 %			23:14:55
1	Ag 328.068†	479.2	104.2	0.4607 ug/L		0.4607 ppb	23:15:00
1	As 188.979†	-42.8	-6.2	-2.5509 ug/L		-2.5509 ppb	23:15:20
1	B 249.677†	-241.0	100.4	2.2941 ug/L		2.2941 ppb	23:15:20
1	Ba 233.527†	8.0	24.4	0.1995 ug/L		0.1995 ppb	23:15:20
1	Be 313.107†	-4528.2	278.7	0.1027 ug/L		0.1027 ppb	23:15:00
1	Cd 226.502†	-178.7	5.1	0.0512 ug/L		0.0512 ppb	23:15:20
1	Co 228.616†	-67.3	1.9	0.0378 ug/L		0.0378 ppb	23:15:20
1	Cr 267.716†	122.6	53.2	0.5633 ug/L		0.5633 ppb	23:15:20
1	Cu 324.752†	8742.7	-235.9	-0.6634 ug/L		-0.6634 ppb	23:15:00
1	Mn 257.610†	1894.4	1322.4	1.4909 ug/L		1.4909 ppb	23:15:20
1	Mo 202.031†	12.9	2.3	0.1644 ug/L		0.1644 ppb	23:15:20
1	Ni 231.604†	108.4	27.8	0.6730 ug/L		0.6730 ppb	23:15:20
1	P 214.914†	256.2	7.3	4.1650 ug/L		4.1650 ppb	23:15:20
1	Pb 220.353†	-25.4	19.7	2.3708 ug/L		2.3708 ppb	23:15:20
1	S 181.975 Axial†	39.3	-3.4	-4.6225 ug/L		-4.6225 ppb	23:15:20
1	Sb 206.836†	51.1	16.2	5.2554 ug/L		5.2554 ppb	23:15:20
1	Se 196.026†	-15.6	8.2	4.6744 ug/L		4.6744 ppb	23:15:20
1	Si 251.611†	988.5	583.9	17.835 ug/L		17.835 ppb	23:15:20
1	Sn 189.927†	21.5	20.4	3.6983 ug/L		3.6983 ppb	23:15:20
1	Ti 334.940†	-708.0	307.4	0.4655 ug/L		0.4655 ppb	23:15:00
1	Tl 190.801†	-42.9	2.2	0.7070 ug/L		0.7070 ppb	23:15:20
1	U 409.014†	-2757.5	39.0	0.9868 ug/L		0.9868 ppb	23:14:55
1	V 292.402†	-1470.7	-3.0	-0.0244 ug/L		-0.0244 ppb	23:15:00
1	Zn 213.857†	932.6	10.9	0.0900 ug/L		0.0900 ppb	23:15:20
1	SiO2†	983.8	585.2	38.161 ug/L		38.161 ppb	23:16:26
2	Sc Radial	5358.1	5358.1	102 %			23:14:03
2	Y RADIAL	5648.9	5648.9	102.3 %			23:14:03
2	Al 396.153Radial†	-109.0	-0.3	-0.3004 ug/L		-0.3004 ppb	23:14:23
2	Ca 317.933Radial†	32.1	10.9	18.218 ug/L		18.218 ppb	23:14:23
2	Fe 238.204 Radial†	18.0	7.7	73.411 ug/L		73.411 ppb	23:14:23
2	K 766.490 Radial†	2745.1	41.1	7.4265 ug/L		7.4265 ppb	23:14:03
2	Mg 279.077 IEC†	0.7	-0.7	-27.401 ug/L		-27.401 ppb	23:14:23
2	Na 589.592 Radial†	-669.2	-71.2	-21.676 ug/L		-21.676 ppb	23:14:03
2	Sr 421.552†	83.6	15.6	0.0959 ug/L		0.0959 ppb	23:14:03
2	Sc 361.383	985229.1	985229.1	99.319 %			23:15:25
2	Y 371.029	855513.1	855513.1	99.483 %			23:15:25
2	Ag 328.068†	475.0	103.8	0.4652 ug/L		0.4652 ppb	23:15:30
2	As 188.979†	-38.9	-2.7	-1.0841 ug/L		-1.0841 ppb	23:15:50
2	B 249.677†	-218.4	121.2	2.7723 ug/L		2.7723 ppb	23:15:50
2	Ba 233.527†	-9.4	6.9	0.0585 ug/L		0.0585 ppb	23:15:50
2	Be 313.107†	-4488.1	283.6	0.1049 ug/L		0.1049 ppb	23:15:30
2	Cd 226.502†	-179.3	3.0	0.0259 ug/L		0.0259 ppb	23:15:50
2	Co 228.616†	-84.4	-15.9	-0.3378 ug/L		-0.3378 ppb	23:15:50
2	Cr 267.716†	124.2	55.7	0.5918 ug/L		0.5918 ppb	23:15:50
2	Cu 324.752†	8882.2	-27.0	-0.0718 ug/L		-0.0718 ppb	23:15:30
2	Mn 257.610†	1901.3	1344.2	1.5190 ug/L		1.5190 ppb	23:15:50
2	Mo 202.031†	16.1	5.6	0.3917 ug/L		0.3917 ppb	23:15:50
2	Ni 231.604†	98.2	18.5	0.4469 ug/L		0.4469 ppb	23:15:50

2	P 214.914†	258.0	11.1	6.1080 ug/L	6.1080 ppb	23:15:50
2	Pb 220.353†	-40.8	4.1	0.4829 ug/L	0.4829 ppb	23:15:50
2	S 181.975 Axial†	43.1	0.6	0.8701 ug/L	0.8701 ppb	23:15:50
2	Sb 206.836†	40.1	5.5	1.8121 ug/L	1.8121 ppb	23:15:50
2	Se 196.026†	-10.9	12.8	7.2436 ug/L	7.2436 ppb	23:15:50
2	Si 251.611†	963.4	566.3	17.295 ug/L	17.295 ppb	23:15:50
2	Sn 189.927†	17.3	16.3	2.9554 ug/L	2.9554 ppb	23:15:50
2	Ti 334.940†	-602.5	408.1	0.6239 ug/L	0.6239 ppb	23:15:30
2	Tl 190.801†	-49.8	-5.2	-1.6554 ug/L	-1.6554 ppb	23:15:50
2	U 409.014†	-2821.1	-46.7	-1.2010 ug/L	-1.2010 ppb	23:15:25
2	V 292.402†	-1442.9	13.4	0.0784 ug/L	0.0784 ppb	23:15:30
2	Zn 213.857†	941.5	27.1	0.2380 ug/L	0.2380 ppb	23:15:50
2	SiO2†	991.9	601.0	39.189 ug/L	39.189 ppb	23:16:31
3	Sc Radial	5536.9	5536.9	105 %		23:14:28
3	Y RADIAL	5788.1	5788.1	104.8 %		23:14:28
3	Al 396.153Radial†	-105.3	6.6	5.3618 ug/L	5.3618 ppb	23:14:48
3	Ca 317.933Radial†	28.2	6.2	10.314 ug/L	10.314 ppb	23:14:48
3	Fe 238.204 Radial†	16.0	5.2	50.027 ug/L	50.027 ppb	23:14:48
3	K 766.490 Radial†	2603.0	-181.5	-32.768 ug/L	-32.768 ppb	23:14:28
3	Mg 279.077 IEC†	1.9	0.5	17.873 ug/L	17.873 ppb	23:14:48
3	Na 589.592 Radial†	-658.6	-39.8	-12.126 ug/L	-12.126 ppb	23:14:28
3	Sr 421.552†	62.9	-6.8	-0.0421 ug/L	-0.0421 ppb	23:14:28
3	Sc 361.383	977476.5	977476.5	98.537 %		23:15:56
3	Y 371.029	849882.5	849882.5	98.828 %		23:15:56
3	Ag 328.068†	542.1	175.6	0.7592 ug/L	0.7592 ppb	23:16:01
3	As 188.979†	-33.6	2.4	1.0216 ug/L	1.0216 ppb	23:16:21
3	B 249.677†	-280.7	56.3	1.2840 ug/L	1.2840 ppb	23:16:21
3	Ba 233.527†	-1.0	15.4	0.1255 ug/L	0.1255 ppb	23:16:21
3	Be 313.107†	-4533.4	201.8	0.0749 ug/L	0.0749 ppb	23:16:01
3	Cd 226.502†	-172.9	8.0	0.0856 ug/L	0.0856 ppb	23:16:21
3	Co 228.616†	-75.0	-7.0	-0.1500 ug/L	-0.1500 ppb	23:16:21
3	Cr 267.716†	123.4	56.0	0.5922 ug/L	0.5922 ppb	23:16:21
3	Cu 324.752†	8791.1	-48.6	-0.1346 ug/L	-0.1346 ppb	23:16:01
3	Mn 257.610†	1890.0	1347.9	1.5191 ug/L	1.5191 ppb	23:16:21
3	Mo 202.031†	11.1	0.7	0.0488 ug/L	0.0488 ppb	23:16:21
3	Ni 231.604†	108.7	29.8	0.7217 ug/L	0.7217 ppb	23:16:21
3	P 214.914†	259.4	14.6	8.0634 ug/L	8.0634 ppb	23:16:21
3	Pb 220.353†	-55.0	-10.7	-1.2873 ug/L	-1.2873 ppb	23:16:21
3	S 181.975 Axial†	48.2	6.1	8.2206 ug/L	8.2206 ppb	23:16:21
3	Sb 206.836†	32.9	-1.5	-0.4333 ug/L	-0.4333 ppb	23:16:21
3	Se 196.026†	-14.8	8.7	4.9538 ug/L	4.9538 ppb	23:16:21
3	Si 251.611†	954.6	565.1	17.263 ug/L	17.263 ppb	23:16:21
3	Sn 189.927†	16.3	15.5	2.8070 ug/L	2.8070 ppb	23:16:21
3	Ti 334.940†	-622.7	382.7	0.5800 ug/L	0.5800 ppb	23:16:01
3	Tl 190.801†	-44.1	0.2	0.0926 ug/L	0.0926 ppb	23:16:21
3	U 409.014†	-2741.3	11.8	0.2947 ug/L	0.2947 ppb	23:15:56
3	V 292.402†	-1520.1	-76.4	-0.5038 ug/L	-0.5038 ppb	23:16:01
3	Zn 213.857†	928.0	20.9	0.1818 ug/L	0.1818 ppb	23:16:21
3	SiO2†	953.5	570.0	37.173 ug/L	37.173 ppb	23:16:36

Mean Data: 1202015835|941795|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	985219.8	99.318	%	0.7801				0.79%
Sc Radial	5468.4	104	%	1.8				1.76%
Y 371.029	855825.3	99.519	%	0.7099				0.71%
Y RADIAL	5746.1	104.0	%	1.53				1.47%
Ag 328.068†	127.9	0.5617	ug/L	0.17107	0.5617	ppb	0.17107	30.46%
Al 396.153Radial†	4.2	3.3917	ug/L	3.19990	3.3917	ppb	3.19990	94.34%
As 188.979†	-2.2	-0.8711	ug/L	1.79574	-0.8711	ppb	1.79574	206.14%
B 249.677†	92.6	2.1168	ug/L	0.75984	2.1168	ppb	0.75984	35.90%
Ba 233.527†	15.6	0.1278	ug/L	0.07055	0.1278	ppb	0.07055	55.19%
Be 313.107†	254.7	0.0942	ug/L	0.01671	0.0942	ppb	0.01671	17.74%
Ca 317.933Radial†	9.5	15.863	ug/L	4.8244	15.863	ppb	4.8244	30.41%
Cd 226.502†	5.4	0.0542	ug/L	0.02999	0.0542	ppb	0.02999	55.31%
Co 228.616†	-7.0	-0.1500	ug/L	0.18780	-0.1500	ppb	0.18780	125.19%
Cr 267.716†	55.0	0.5824	ug/L	0.01658	0.5824	ppb	0.01658	2.85%
Cu 324.752†	-103.8	-0.2899	ug/L	0.32495	-0.2899	ppb	0.32495	112.08%
Fe 238.204 Radial†	6.4	61.420	ug/L	11.7032	61.420	ppb	11.7032	19.05%
K 766.490 Radial†	-132.2	-23.873	ug/L	27.9345	-23.873	ppb	27.9345	117.02%

Mg 279.077 IEC†	0.2	7.5457 ug/L	31.09686	7.5457 ppb	31.09686	412.12%
Mn 257.610†	1338.1	1.5096 ug/L	0.01627	1.5096 ppb	0.01627	1.08%
Mo 202.031†	2.9	0.2016 ug/L	0.17449	0.2016 ppb	0.17449	86.54%
Na 589.592 Radial†	-53.3	-16.238 ug/L	4.9115	-16.238 ppb	4.9115	30.25%
Ni 231.604†	25.4	0.6139 ug/L	0.14662	0.6139 ppb	0.14662	23.88%
P 214.914†	11.0	6.1122 ug/L	1.94921	6.1122 ppb	1.94921	31.89%
Pb 220.353†	4.4	0.5221 ug/L	1.82935	0.5221 ppb	1.82935	350.37%
S 181.975 Axial†	1.1	1.4894 ug/L	6.44393	1.4894 ppb	6.44393	432.65%
Sb 206.836†	6.7	2.2114 ug/L	2.86528	2.2114 ppb	2.86528	129.57%
Se 196.026†	9.9	5.6239 ug/L	1.40964	5.6239 ppb	1.40964	25.07%
Si 251.611†	571.8	17.464 ug/L	0.3214	17.464 ppb	0.3214	1.84%
Sn 189.927†	17.4	3.1536 ug/L	0.47752	3.1536 ppb	0.47752	15.14%
Sr 421.552†	4.7	0.0291 ug/L	0.06910	0.0291 ppb	0.06910	237.23%
Ti 334.940†	366.0	0.5565 ug/L	0.08180	0.5565 ppb	0.08180	14.70%
Tl 190.801†	-0.9	-0.2853 ug/L	1.22572	-0.2853 ppb	1.22572	429.65%
U 409.014†	1.4	0.0268 ug/L	1.11820	0.0268 ppb	1.11820	>999.9%
V 292.402†	-22.0	-0.1499 ug/L	0.31072	-0.1499 ppb	0.31072	207.26%
Zn 213.857†	19.7	0.1699 ug/L	0.07469	0.1699 ppb	0.07469	43.95%
SiO2†	585.4	38.174 ug/L	1.0081	38.174 ppb	1.0081	2.64%

Sequence No.: 51

Sample ID: 1202015840|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 63

Date Collected: 1/29/2010 23:18:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015840|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5669.1	5669.1	107 %		23:21:00
1	Y RADIAL	6536.8	6536.8	118.4 %		23:21:00
1	Al 396.153Radial†	138366.6	128845.9	104050 ug/L	104050 ppb	23:20:40
1	Ca 317.933Radial†	70263.3	65353.6	108790 ug/L	108790 ppb	23:20:40
1	Fe 238.204 Radial†	22374.2	20807.3	199550 ug/L	199550 ppb	23:20:40
1	K 766.490 Radial†	282035.9	259750.5	46861 ug/L	46861 ppb	23:20:40
1	Mg 279.077 IEC†	1228.5	1141.7	43388 ug/L	43388 ppb	23:21:00
1	Na 589.592 Radial†	40595.4	38358.4	11682 ug/L	11682 ppb	23:20:40
1	Sr 421.552†	460484.3	428376.8	2637.7 ug/L	2637.7 ppb	23:20:40
1	Sc 361.383	997223.6	997223.6	100.53 %		23:22:02
1	Y 371.029	937426.3	937426.3	109.01 %		23:22:02
1	Ag 328.068†	68417.6	67683.7	356.20 ug/L	356.20 ppb	23:22:02
1	As 188.979†	2655.5	2678.1	1203.6 ug/L	1203.6 ppb	23:22:07
1	B 249.677†	78394.0	78323.3	1762.9 ug/L	1762.9 ppb	23:22:02
1	Ba 233.527†	268041.3	266649.8	2171.8 ug/L	2171.8 ppb	23:22:02
1	Be 313.107†	2534659.1	2526148.3	936.77 ug/L	936.77 ppb	23:22:02
1	Cd 226.502†	61032.7	60895.7	664.15 ug/L	664.15 ppb	23:22:07
1	Co 228.616†	50496.1	50299.9	1047.5 ug/L	1047.5 ppb	23:22:07
1	Cr 267.716†	261115.3	259674.5	2753.5 ug/L	2753.5 ppb	23:22:02
1	Cu 324.752†	803305.2	790115.7	2241.4 ug/L	2241.4 ppb	23:22:02
1	Mn 257.610†	5509728.7	5480218.7	6176.9 ug/L	6176.9 ppb	23:22:02
1	Mo 202.031†	8581.5	8525.9	602.28 ug/L	602.28 ppb	23:22:07
1	Ni 231.604†	62640.5	62231.0	1505.6 ug/L	1505.6 ppb	23:22:07
1	P 214.914†	16192.1	15858.4	8198.2 ug/L	8198.2 ppb	23:22:07
1	Pb 220.353†	7389.1	7395.5	894.54 ug/L	894.54 ppb	23:22:07
1	S 181.975 Axial†	3259.9	3200.0	4278.1 ug/L	4278.1 ppb	23:22:07
1	Sb 206.836†	6247.0	6179.3	1999.7 ug/L	1999.7 ppb	23:22:07
1	Se 196.026†	5096.5	5093.4	3458.6 ug/L	3458.6 ppb	23:22:07
1	Si 251.611†	887539.1	882473.7	26950 ug/L	26950 ppb	23:22:02
1	Sn 189.927†	6373.2	6338.6	1169.7 ug/L	1169.7 ppb	23:22:07
1	Ti 334.940†	4393645.1	4371582.1	6640.7 ug/L	6640.7 ppb	23:22:02
1	Tl 190.801†	4120.2	4143.6	1418.1 ug/L	1418.1 ppb	23:22:07
1	U 409.014†	-9779.6	-6934.4	-205.92 ug/L	-205.92 ppb	23:22:02
1	V 292.402†	215889.4	216221.7	1378.6 ug/L	1378.6 ppb	23:22:02
1	Zn 213.857†	733500.1	728726.6	6620.0 ug/L	6620.0 ppb	23:22:02
1	SiO2†	895532.3	890430.8	58058 ug/L	58058 ppb	23:22:42
2	Sc Radial	5666.9	5666.9	107 %		23:21:26
2	Y RADIAL	6568.0	6568.0	118.9 %		23:21:26
2	Al 396.153Radial†	138931.3	129420.8	104520 ug/L	104520 ppb	23:21:06
2	Ca 317.933Radial†	70528.2	65625.3	109240 ug/L	109240 ppb	23:21:06
2	Fe 238.204 Radial†	22493.7	20926.6	200690 ug/L	200690 ppb	23:21:06
2	K 766.490 Radial†	282973.7	260723.9	47036 ug/L	47036 ppb	23:21:06
2	Mg 279.077 IEC†	1227.8	1141.4	43377 ug/L	43377 ppb	23:21:26
2	Na 589.592 Radial†	40936.9	38690.7	11783 ug/L	11783 ppb	23:21:06
2	Sr 421.552†	462729.7	430631.0	2651.6 ug/L	2651.6 ppb	23:21:06
2	Sc 361.383	1000215.9	1000215.9	100.83 %		23:22:16
2	Y 371.029	940912.0	940912.0	109.41 %		23:22:16
2	Ag 328.068†	68777.5	67837.1	357.21 ug/L	357.21 ppb	23:22:16
2	As 188.979†	2770.0	2783.7	1247.4 ug/L	1247.4 ppb	23:22:21
2	B 249.677†	78721.8	78415.2	1764.8 ug/L	1764.8 ppb	23:22:16
2	Ba 233.527†	268427.9	266235.5	2168.5 ug/L	2168.5 ppb	23:22:16
2	Be 313.107†	2539037.8	2522948.1	935.60 ug/L	935.60 ppb	23:22:16
2	Cd 226.502†	61573.5	61250.4	668.02 ug/L	668.02 ppb	23:22:21
2	Co 228.616†	50898.1	50548.3	1052.8 ug/L	1052.8 ppb	23:22:21
2	Cr 267.716†	261453.1	259232.5	2748.9 ug/L	2748.9 ppb	23:22:16
2	Cu 324.752†	809280.6	793651.4	2251.4 ug/L	2251.4 ppb	23:22:16
2	Mn 257.610†	5519536.8	5473549.7	6169.6 ug/L	6169.6 ppb	23:22:16
2	Mo 202.031†	8652.9	8571.1	605.48 ug/L	605.48 ppb	23:22:21
2	Ni 231.604†	63017.2	62418.2	1510.2 ug/L	1510.2 ppb	23:22:21

2	P 214.914†	16323.4	15940.4	8240.8 ug/L	8240.8 ppb	23:22:21
2	Pb 220.353†	7415.0	7399.1	894.98 ug/L	894.98 ppb	23:22:21
2	S 181.975 Axial†	3295.2	3225.3	4312.0 ug/L	4312.0 ppb	23:22:21
2	Sb 206.836†	6342.3	6255.2	2024.3 ug/L	2024.3 ppb	23:22:21
2	Se 196.026†	5206.1	5187.0	3513.7 ug/L	3513.7 ppb	23:22:21
2	Si 251.611†	890481.4	882750.5	26958 ug/L	26958 ppb	23:22:16
2	Sn 189.927†	6441.7	6387.6	1178.6 ug/L	1178.6 ppb	23:22:21
2	Ti 334.940†	4408595.7	4373334.7	6643.5 ug/L	6643.5 ppb	23:22:16
2	Tl 190.801†	4096.0	4107.4	1406.3 ug/L	1406.3 ppb	23:22:21
2	U 409.014†	-9892.8	-7017.6	-208.17 ug/L	-208.17 ppb	23:22:16
2	V 292.402†	216328.5	216014.7	1377.1 ug/L	1377.1 ppb	23:22:16
2	Zn 213.857†	734210.4	727248.3	6606.4 ug/L	6606.4 ppb	23:22:16
2	SiO2†	887260.4	879562.0	57349 ug/L	57349 ppb	23:22:48
3	Sc Radial	5690.7	5690.7	108 %		23:21:51
3	Y RADIAL	6559.1	6559.1	118.8 %		23:21:51
3	Al 396.153Radial†	140022.1	129892.8	104900 ug/L	104900 ppb	23:21:31
3	Ca 317.933Radial†	71046.6	65832.1	109590 ug/L	109590 ppb	23:21:31
3	Fe 238.204 Radial†	22672.9	21005.4	201450 ug/L	201450 ppb	23:21:31
3	K 766.490 Radial†	285060.3	261560.0	47187 ug/L	47187 ppb	23:21:31
3	Mg 279.077 IEC†	1236.3	1144.5	43495 ug/L	43495 ppb	23:21:51
3	Na 589.592 Radial†	41037.7	38625.3	11763 ug/L	11763 ppb	23:21:31
3	Sr 421.552†	465665.2	431556.4	2657.3 ug/L	2657.3 ppb	23:21:31
3	Sc 361.383	1002605.5	1002605.5	101.07 %		23:22:31
3	Y 371.029	942991.5	942991.5	109.66 %		23:22:31
3	Ag 328.068†	68863.0	67759.0	357.13 ug/L	357.13 ppb	23:22:31
3	As 188.979†	2716.8	2724.5	1223.3 ug/L	1223.3 ppb	23:22:36
3	B 249.677†	79064.9	78568.5	1768.2 ug/L	1768.2 ppb	23:22:31
3	Ba 233.527†	269374.6	266537.8	2171.0 ug/L	2171.0 ppb	23:22:31
3	Be 313.107†	2545710.6	2523548.5	935.83 ug/L	935.83 ppb	23:22:31
3	Cd 226.502†	61045.3	60582.3	660.43 ug/L	660.43 ppb	23:22:36
3	Co 228.616†	50494.0	50028.2	1041.8 ug/L	1041.8 ppb	23:22:36
3	Cr 267.716†	262338.4	259490.4	2751.6 ug/L	2751.6 ppb	23:22:31
3	Cu 324.752†	811414.1	793849.4	2252.0 ug/L	2252.0 ppb	23:22:31
3	Mn 257.610†	5537431.1	5478207.5	6174.9 ug/L	6174.9 ppb	23:22:31
3	Mo 202.031†	8585.1	8483.5	599.53 ug/L	599.53 ppb	23:22:36
3	Ni 231.604†	62646.4	61902.4	1497.7 ug/L	1497.7 ppb	23:22:36
3	P 214.914†	16242.0	15821.3	8174.3 ug/L	8174.3 ppb	23:22:36
3	Pb 220.353†	7427.0	7393.5	894.30 ug/L	894.30 ppb	23:22:36
3	S 181.975 Axial†	3253.3	3176.1	4245.8 ug/L	4245.8 ppb	23:22:36
3	Sb 206.836†	6215.5	6114.8	1978.9 ug/L	1978.9 ppb	23:22:36
3	Se 196.026†	5138.5	5107.8	3472.8 ug/L	3472.8 ppb	23:22:36
3	Si 251.611†	893061.3	883198.2	26972 ug/L	26972 ppb	23:22:31
3	Sn 189.927†	6403.6	6334.6	1169.1 ug/L	1169.1 ppb	23:22:36
3	Ti 334.940†	4421376.5	4375559.3	6646.9 ug/L	6646.9 ppb	23:22:31
3	Tl 190.801†	4072.0	4073.9	1395.6 ug/L	1395.6 ppb	23:22:36
3	U 409.014†	-9901.5	-7002.8	-207.88 ug/L	-207.88 ppb	23:22:31
3	V 292.402†	216969.4	216137.5	1377.7 ug/L	1377.7 ppb	23:22:31
3	Zn 213.857†	736683.1	727959.2	6612.9 ug/L	6612.9 ppb	23:22:31
3	SiO2†	891051.6	881215.7	57457 ug/L	57457 ppb	23:22:54

Mean Data: 1202015840|941795|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
Sc 361.383	1000015.0	100.81 %		0.272			0.27%
Sc Radial	5675.6	108 %		0.2			0.23%
Y 371.029	940443.2	109.36 %		0.327			0.30%
Y RADIAL	6554.6	118.7 %		0.29			0.24%
Ag 328.068†	67759.9	356.85 ug/L		0.560	356.85 ppb	0.560	0.16%
Al 396.153Radial†	129386.5	104490 ug/L		423.6	104490 ppb	423.6	0.41%
As 188.979†	2728.8	1224.8 ug/L		21.90	1224.8 ppb	21.90	1.79%
B 249.677†	78435.7	1765.3 ug/L		2.70	1765.3 ppb	2.70	0.15%
Ba 233.527†	266474.4	2170.4 ug/L		1.73	2170.4 ppb	1.73	0.08%
Be 313.107†	2524215.0	936.07 ug/L		0.616	936.07 ppb	0.616	0.07%
Ca 317.933Radial†	65603.7	109210 ug/L		399.4	109210 ppb	399.4	0.37%
Cd 226.502†	60909.4	664.20 ug/L		3.795	664.20 ppb	3.795	0.57%
Co 228.616†	50292.2	1047.4 ug/L		5.52	1047.4 ppb	5.52	0.53%
Cr 267.716†	259465.8	2751.4 ug/L		2.34	2751.4 ppb	2.34	0.09%
Cu 324.752†	792538.8	2248.3 ug/L		5.98	2248.3 ppb	5.98	0.27%
Fe 238.204 Radial†	20913.1	200560 ug/L		956.3	200560 ppb	956.3	0.48%
K 766.490 Radial†	260678.2	47028 ug/L		163.4	47028 ppb	163.4	0.35%

Mg 279.077 IEC†	1142.5	43420 ug/L	65.4	43420 ppb	65.4	0.15%
Mn 257.610†	5477325.3	6173.8 ug/L	3.81	6173.8 ppb	3.81	0.06%
Mo 202.031†	8526.8	602.43 ug/L	2.979	602.43 ppb	2.979	0.49%
Na 589.592 Radial†	38558.1	11743 ug/L	53.6	11743 ppb	53.6	0.46%
Ni 231.604†	62183.9	1504.5 ug/L	6.32	1504.5 ppb	6.32	0.42%
P 214.914†	15873.4	8204.4 ug/L	33.71	8204.4 ppb	33.71	0.41%
Pb 220.353†	7396.0	894.61 ug/L	0.343	894.61 ppb	0.343	0.04%
S 181.975 Axial†	3200.5	4278.6 ug/L	33.08	4278.6 ppb	33.08	0.77%
Sb 206.836†	6183.1	2000.9 ug/L	22.71	2000.9 ppb	22.71	1.14%
Se 196.026†	5129.4	3481.7 ug/L	28.59	3481.7 ppb	28.59	0.82%
Si 251.611†	882807.5	26960 ug/L	11.2	26960 ppb	11.2	0.04%
Sn 189.927†	6353.6	1172.5 ug/L	5.35	1172.5 ppb	5.35	0.46%
Sr 421.552†	430188.1	2648.8 ug/L	10.07	2648.8 ppb	10.07	0.38%
Ti 334.940†	4373492.0	6643.7 ug/L	3.07	6643.7 ppb	3.07	0.05%
Tl 190.801†	4108.3	1406.7 ug/L	11.24	1406.7 ppb	11.24	0.80%
U 409.014†	-6984.9	-207.32 ug/L	1.222	-207.32 ppb	1.222	0.59%
V 292.402†	216124.6	1377.8 ug/L	0.74	1377.8 ppb	0.74	0.05%
Zn 213.857†	727978.0	6613.1 ug/L	6.83	6613.1 ppb	6.83	0.10%
SiO2†	883736.2	57622 ug/L	382.0	57622 ppb	382.0	0.66%

Sequence No.: 52
 Sample ID: 244628001|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 64
 Date Collected: 1/29/2010 23:25:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628001|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5637.5	5637.5	107 %		23:26:58
1	Y RADIAL	7010.4	7010.4	126.9 %		23:26:58
1	Al 396.153Radial†	73888.4	69239.0	55931 ug/L	55931 ppb	23:26:58
1	Ca 317.933Radial†	13165.8	12297.6	20471 ug/L	20471 ppb	23:26:58
1	Fe 238.204 Radial†	11229.8	10496.9	100650 ug/L	100650 ppb	23:26:58
1	K 766.490 Radial†	52254.1	46229.3	8339.8 ug/L	8339.8 ppb	23:26:58
1	Mg 279.077 IEC†	297.3	276.8	10462 ug/L	10462 ppb	23:27:18
1	Na 589.592 Radial†	1966.5	2427.6	739.30 ug/L	739.30 ppb	23:26:58
1	Sr 421.552†	25892.3	24158.8	148.65 ug/L	148.65 ppb	23:26:58
1	Sc 361.383	1006536.3	1006536.3	101.47 %		23:28:16
1	Y 371.029	1017840.9	1017840.9	118.36 %		23:28:16
1	Ag 328.068†	-6563.4	-6843.0	4.0387 ug/L	4.0387 ppb	23:28:21
1	As 188.979†	-51.9	-14.6	40.665 ug/L	40.665 ppb	23:28:41
1	B 249.677†	1978.1	2290.6	36.159 ug/L	36.159 ppb	23:28:21
1	Ba 233.527†	62728.7	61838.3	504.91 ug/L	504.91 ppb	23:28:21
1	Be 313.107†	-10969.4	-6008.3	3.8734 ug/L	3.8734 ppb	23:28:21
1	Cd 226.502†	800.2	972.2	0.5614 ug/L	0.5614 ppb	23:28:41
1	Co 228.616†	1417.8	1466.4	24.129 ug/L	24.129 ppb	23:28:41
1	Cr 267.716†	19824.9	19469.1	208.25 ug/L	208.25 ppb	23:28:21
1	Cu 324.752†	18886.9	9643.8	32.677 ug/L	32.677 ppb	23:28:21
1	Mn 257.610†	2188267.6	2156063.5	2432.6 ug/L	2432.6 ppb	23:28:16
1	Mo 202.031†	247.1	233.0	24.057 ug/L	24.057 ppb	23:28:41
1	Ni 231.604†	5571.8	5410.8	130.95 ug/L	130.95 ppb	23:28:41
1	P 214.914†	1396.2	1127.4	550.44 ug/L	550.44 ppb	23:28:41
1	Pb 220.353†	636.6	672.5	83.600 ug/L	83.600 ppb	23:28:41
1	S 181.975 Axial†	658.0	605.8	803.06 ug/L	803.06 ppb	23:28:41
1	Sb 206.836†	67.7	31.9	3.0217 ug/L	3.0217 ppb	23:28:41
1	Se 196.026†	-504.7	-473.7	76.937 ug/L	76.937 ppb	23:28:41
1	Si 251.611†	909002.1	895457.8	27354 ug/L	27354 ppb	23:28:16
1	Sn 189.927†	-89.7	-89.5	-11.434 ug/L	-11.434 ppb	23:28:41
1	Ti 334.940†	1786307.2	1761498.7	2673.7 ug/L	2673.7 ppb	23:28:16
1	Tl 190.801†	-162.3	-114.9	-3.8499 ug/L	-3.8499 ppb	23:28:41
1	U 409.014†	-11617.7	-8656.0	-232.91 ug/L	-232.91 ppb	23:28:16
1	V 292.402†	20903.3	22067.4	126.03 ug/L	126.03 ppb	23:28:21
1	Zn 213.857†	30618.6	29255.1	256.41 ug/L	256.41 ppb	23:28:21
1	SiO2†	896629.5	883270.0	57607 ug/L	57607 ppb	23:29:50
2	Sc Radial	5623.8	5623.8	107 %		23:27:24
2	Y RADIAL	6967.3	6967.3	126.1 %		23:27:24
2	Al 396.153Radial†	72951.3	68528.6	55357 ug/L	55357 ppb	23:27:24
2	Ca 317.933Radial†	12970.2	12144.2	20216 ug/L	20216 ppb	23:27:24
2	Fe 238.204 Radial†	11045.9	10349.9	99244 ug/L	99244 ppb	23:27:24
2	K 766.490 Radial†	51635.1	45767.8	8256.5 ug/L	8256.5 ppb	23:27:24
2	Mg 279.077 IEC†	291.3	271.9	10278 ug/L	10278 ppb	23:27:44
2	Na 589.592 Radial†	1962.0	2427.8	739.39 ug/L	739.39 ppb	23:27:24
2	Sr 421.552†	25636.0	23977.5	147.53 ug/L	147.53 ppb	23:27:24
2	Sc 361.383	1008794.6	1008794.6	101.69 %		23:28:47
2	Y 371.029	1021812.3	1021812.3	118.82 %		23:28:47
2	Ag 328.068†	-6604.5	-6869.0	3.4760 ug/L	3.4760 ppb	23:28:52
2	As 188.979†	-45.9	-8.6	42.761 ug/L	42.761 ppb	23:29:12
2	B 249.677†	1976.2	2284.4	36.244 ug/L	36.244 ppb	23:28:52
2	Ba 233.527†	62724.5	61695.8	503.72 ug/L	503.72 ppb	23:28:52
2	Be 313.107†	-11050.7	-6064.1	3.8410 ug/L	3.8410 ppb	23:28:52
2	Cd 226.502†	810.3	980.3	0.7983 ug/L	0.7983 ppb	23:29:12
2	Co 228.616†	1431.4	1476.6	24.380 ug/L	24.380 ppb	23:29:12
2	Cr 267.716†	19816.2	19416.7	207.67 ug/L	207.67 ppb	23:28:52
2	Cu 324.752†	18863.7	9579.3	32.420 ug/L	32.420 ppb	23:28:52
2	Mn 257.610†	2189422.8	2152371.6	2428.3 ug/L	2428.3 ppb	23:28:47
2	Mo 202.031†	266.4	251.4	25.209 ug/L	25.209 ppb	23:29:12
2	Ni 231.604†	5594.6	5420.9	131.19 ug/L	131.19 ppb	23:29:12

2	P 214.914†	1407.1	1135.0	555.68 ug/L	555.68 ppb	23:29:12
2	Pb 220.353†	648.8	683.1	84.880 ug/L	84.880 ppb	23:29:12
2	S 181.975 Axial†	655.6	601.9	797.97 ug/L	797.97 ppb	23:29:12
2	Sb 206.836†	65.8	29.8	2.3892 ug/L	2.3892 ppb	23:29:12
2	Se 196.026†	-501.3	-469.2	74.688 ug/L	74.688 ppb	23:29:12
2	Si 251.611†	909291.5	893736.9	27301 ug/L	27301 ppb	23:28:47
2	Sn 189.927†	-86.3	-86.0	-10.856 ug/L	-10.856 ppb	23:29:12
2	Ti 334.940†	1786776.0	1758018.7	2668.4 ug/L	2668.4 ppb	23:28:47
2	Tl 190.801†	-170.1	-122.2	-6.2688 ug/L	-6.2688 ppb	23:29:12
2	U 409.014†	-11617.1	-8629.7	-232.08 ug/L	-232.08 ppb	23:28:47
2	V 292.402†	20986.6	22103.1	126.49 ug/L	126.49 ppb	23:28:52
2	Zn 213.857†	30582.7	29152.4	255.61 ug/L	255.61 ppb	23:28:52
2	SiO2†	909663.1	894108.2	58314 ug/L	58314 ppb	23:29:56
3	Sc Radial	5627.4	5627.4	107 %		23:27:49
3	Y RADIAL	6977.6	6977.6	126.3 %		23:27:49
3	Al 396.153Radial†	73315.6	68826.8	55598 ug/L	55598 ppb	23:27:49
3	Ca 317.933Radial†	13044.2	12205.8	20318 ug/L	20318 ppb	23:27:49
3	Fe 238.204 Radial†	11137.5	10429.3	100000 ug/L	100000 ppb	23:27:49
3	K 766.490 Radial†	51814.6	45905.5	8281.4 ug/L	8281.4 ppb	23:27:49
3	Mg 279.077 IEC†	290.8	271.2	10249 ug/L	10249 ppb	23:28:09
3	Na 589.592 Radial†	1939.3	2405.4	732.55 ug/L	732.55 ppb	23:27:49
3	Sr 421.552†	25726.7	24047.3	147.96 ug/L	147.96 ppb	23:27:49
3	Sc 361.383	994617.4	994617.4	100.27 %		23:29:18
3	Y 371.029	1008308.3	1008308.3	117.25 %		23:29:18
3	Ag 328.068†	-6427.1	-6784.6	4.0835 ug/L	4.0835 ppb	23:29:23
3	As 188.979†	-42.1	-5.4	44.247 ug/L	44.247 ppb	23:29:43
3	B 249.677†	1936.9	2272.9	35.854 ug/L	35.854 ppb	23:29:23
3	Ba 233.527†	62860.5	62710.5	511.97 ug/L	511.97 ppb	23:29:23
3	Be 313.107†	-11059.6	-6227.8	3.7801 ug/L	3.7801 ppb	23:29:23
3	Cd 226.502†	789.6	971.0	0.6165 ug/L	0.6165 ppb	23:29:43
3	Co 228.616†	1440.5	1505.8	24.987 ug/L	24.987 ppb	23:29:43
3	Cr 267.716†	19847.9	19726.1	210.96 ug/L	210.96 ppb	23:29:23
3	Cu 324.752†	18857.6	9837.6	33.189 ug/L	33.189 ppb	23:29:23
3	Mn 257.610†	2161199.6	2154911.0	2431.3 ug/L	2431.3 ppb	23:29:18
3	Mo 202.031†	251.0	239.7	24.466 ug/L	24.466 ppb	23:29:43
3	Ni 231.604†	5600.9	5505.6	133.24 ug/L	133.24 ppb	23:29:43
3	P 214.914†	1411.5	1159.1	568.31 ug/L	568.31 ppb	23:29:43
3	Pb 220.353†	629.4	672.9	83.625 ug/L	83.625 ppb	23:29:43
3	S 181.975 Axial†	658.4	613.9	814.03 ug/L	814.03 ppb	23:29:43
3	Sb 206.836†	71.8	36.7	4.6087 ug/L	4.6087 ppb	23:29:43
3	Se 196.026†	-500.5	-475.4	73.811 ug/L	73.811 ppb	23:29:43
3	Si 251.611†	896209.6	893434.6	27292 ug/L	27292 ppb	23:29:18
3	Sn 189.927†	-86.8	-87.7	-11.134 ug/L	-11.134 ppb	23:29:43
3	Ti 334.940†	1761324.2	1757678.5	2667.9 ug/L	2667.9 ppb	23:29:18
3	Tl 190.801†	-161.5	-116.0	-4.2599 ug/L	-4.2599 ppb	23:29:43
3	U 409.014†	-11425.5	-8601.5	-231.45 ug/L	-231.45 ppb	23:29:18
3	V 292.402†	20880.2	22291.2	127.59 ug/L	127.59 ppb	23:29:23
3	Zn 213.857†	30627.7	29625.8	259.84 ug/L	259.84 ppb	23:29:23
3	SiO2†	909703.3	906898.5	59148 ug/L	59148 ppb	23:30:02

Mean Data: 244628001|941795|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity		Units		Conc. Units		
Sc 361.383	1003316.1	101.14	%	0.768			0.76%
Sc Radial	5629.6	107	%	0.1			0.13%
Y 371.029	1015987.2	118.14	%	0.807			0.68%
Y RADIAL	6985.1	126.5	%	0.41			0.32%
Ag 328.068†	-6832.2	3.8661	ug/L	0.33859	3.8661 ppb	0.33859	8.76%
Al 396.153Radial†	68864.8	55629	ug/L	288.2	55629 ppb	288.2	0.52%
As 188.979†	-9.6	42.558	ug/L	1.7997	42.558 ppb	1.7997	4.23%
B 249.677†	2282.6	36.085	ug/L	0.2051	36.085 ppb	0.2051	0.57%
Ba 233.527†	62081.5	506.87	ug/L	4.461	506.87 ppb	4.461	0.88%
Be 313.107†	-6100.1	3.8315	ug/L	0.04735	3.8315 ppb	0.04735	1.24%
Ca 317.933Radial†	12215.9	20335	ug/L	128.5	20335 ppb	128.5	0.63%
Cd 226.502†	974.5	0.6587	ug/L	0.12397	0.6587 ppb	0.12397	18.82%
Co 228.616†	1482.9	24.499	ug/L	0.4413	24.499 ppb	0.4413	1.80%
Cr 267.716†	19537.3	208.96	ug/L	1.756	208.96 ppb	1.756	0.84%
Cu 324.752†	9686.9	32.762	ug/L	0.3916	32.762 ppb	0.3916	1.20%
Fe 238.204 Radial†	10425.4	99967	ug/L	705.2	99967 ppb	705.2	0.71%
K 766.490 Radial†	45967.5	8292.6	ug/L	42.74	8292.6 ppb	42.74	0.52%

Mg 279.077 IEC†	273.3	10330 ug/L	115.6	10330 ppb	115.6	1.12%
Mn 257.610†	2154448.7	2430.7 ug/L	2.19	2430.7 ppb	2.19	0.09%
Mo 202.031†	241.4	24.578 ug/L	0.5842	24.578 ppb	0.5842	2.38%
Na 589.592 Radial†	2420.3	737.08 ug/L	3.924	737.08 ppb	3.924	0.53%
Ni 231.604†	5445.8	131.79 ug/L	1.260	131.79 ppb	1.260	0.96%
P 214.914†	1140.5	558.14 ug/L	9.185	558.14 ppb	9.185	1.65%
Pb 220.353†	676.2	84.035 ug/L	0.7320	84.035 ppb	0.7320	0.87%
S 181.975 Axial†	607.2	805.02 ug/L	8.209	805.02 ppb	8.209	1.02%
Sb 206.836†	32.8	3.3399 ug/L	1.14346	3.3399 ppb	1.14346	34.24%
Se 196.026†	-472.8	75.145 ug/L	1.6123	75.145 ppb	1.6123	2.15%
Si 251.611†	894209.8	27315 ug/L	33.3	27315 ppb	33.3	0.12%
Sn 189.927†	-87.7	-11.142 ug/L	0.2888	-11.142 ppb	0.2888	2.59%
Sr 421.552†	24061.2	148.05 ug/L	0.562	148.05 ppb	0.562	0.38%
Ti 334.940†	1759065.3	2670.0 ug/L	3.21	2670.0 ppb	3.21	0.12%
Tl 190.801†	-117.7	-4.7929 ug/L	1.29451	-4.7929 ppb	1.29451	27.01%
U 409.014†	-8629.1	-232.15 ug/L	0.732	-232.15 ppb	0.732	0.32%
V 292.402†	22153.9	126.70 ug/L	0.802	126.70 ppb	0.802	0.63%
Zn 213.857†	29344.4	257.29 ug/L	2.249	257.29 ppb	2.249	0.87%
SiO2†	894758.9	58356 ug/L	771.4	58356 ppb	771.4	1.32%

Sequence No.: 53
 Sample ID: 1202015836|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 65
 Date Collected: 1/29/2010 23:32:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202015836|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5859.8	5859.8	111 %			23:34:05
1	Y RADIAL	7104.6	7104.6	128.6 %			23:34:05
1	Al 396.153Radial†	61250.2	55241.1	44623 ug/L	44623 ppb		23:34:05
1	Ca 317.933Radial†	13131.3	11799.4	19642 ug/L	19642 ppb		23:34:05
1	Fe 238.204 Radial†	9625.9	8654.7	82988 ug/L	82988 ppb		23:34:05
1	K 766.490 Radial†	43999.5	36944.8	6663.7 ug/L	6663.7 ppb		23:34:05
1	Mg 279.077 IEC†	261.5	234.0	8847.5 ug/L	8847.5 ppb		23:34:25
1	Na 589.592 Radial†	1661.0	2082.8	634.30 ug/L	634.30 ppb		23:34:05
1	Sr 421.552†	25396.2	22793.6	140.25 ug/L	140.25 ppb		23:34:05
1	Sc 361.383	1070806.2	1070806.2	107.95 %			23:35:23
1	Y 371.029	1052933.2	1052933.2	122.44 %			23:35:23
1	Ag 328.068†	-5781.4	-5730.4	2.9236 ug/L	2.9236 ppb		23:35:28
1	As 188.979†	-46.6	-6.7	35.488 ug/L	35.488 ppb		23:35:48
1	B 249.677†	1718.7	1933.3	30.833 ug/L	30.833 ppb		23:35:28
1	Ba 233.527†	60559.0	56117.7	457.93 ug/L	457.93 ppb		23:35:28
1	Be 313.107†	-11116.8	-5496.0	2.9258 ug/L	2.9258 ppb		23:35:28
1	Cd 226.502†	668.4	802.8	0.4790 ug/L	0.4790 ppb		23:35:48
1	Co 228.616†	1327.7	1299.0	21.879 ug/L	21.879 ppb		23:35:48
1	Cr 267.716†	17785.1	16406.7	175.45 ug/L	175.45 ppb		23:35:28
1	Cu 324.752†	17389.5	7139.3	24.646 ug/L	24.646 ppb		23:35:28
1	Mn 257.610†	1920206.0	1778292.3	2006.4 ug/L	2006.4 ppb		23:35:23
1	Mo 202.031†	216.2	189.7	19.701 ug/L	19.701 ppb		23:35:48
1	Ni 231.604†	5035.4	4584.3	110.94 ug/L	110.94 ppb		23:35:48
1	P 214.914†	1298.7	954.4	467.62 ug/L	467.62 ppb		23:35:48
1	Pb 220.353†	544.9	550.0	68.114 ug/L	68.114 ppb		23:35:48
1	S 181.975 Axial†	627.5	538.5	714.90 ug/L	714.90 ppb		23:35:48
1	Sb 206.836†	67.1	27.3	2.8747 ug/L	2.8747 ppb		23:35:48
1	Se 196.026†	-443.1	-386.7	65.438 ug/L	65.438 ppb		23:35:48
1	Si 251.611†	785736.0	727495.5	22223 ug/L	22223 ppb		23:35:23
1	Sn 189.927†	-116.5	-109.0	-15.391 ug/L	-15.391 ppb		23:35:48
1	Ti 334.940†	1544737.1	1432045.9	2174.0 ug/L	2174.0 ppb		23:35:23
1	Tl 190.801†	-155.6	-99.1	-4.8551 ug/L	-4.8551 ppb		23:35:48
1	U 409.014†	-10455.4	-6892.0	-185.79 ug/L	-185.79 ppb		23:35:23
1	V 292.402†	18522.2	18625.0	106.76 ug/L	106.76 ppb		23:35:28
1	Zn 213.857†	26500.2	23628.8	206.91 ug/L	206.91 ppb		23:35:28
1	SiO2†	788922.5	730453.4	47640 ug/L	47640 ppb		23:36:57
2	Sc Radial	5662.0	5662.0	107 %			23:34:30
2	Y RADIAL	6877.7	6877.7	124.5 %			23:34:30
2	Al 396.153Radial†	62586.6	58411.9	47185 ug/L	47185 ppb		23:34:30
2	Ca 317.933Radial†	13401.3	12463.7	20748 ug/L	20748 ppb		23:34:30
2	Fe 238.204 Radial†	9826.3	9144.0	87681 ug/L	87681 ppb		23:34:30
2	K 766.490 Radial†	45043.3	39300.6	7088.7 ug/L	7088.7 ppb		23:34:30
2	Mg 279.077 IEC†	259.2	240.1	9077.2 ug/L	9077.2 ppb		23:34:50
2	Na 589.592 Radial†	1732.9	2202.0	670.60 ug/L	670.60 ppb		23:34:30
2	Sr 421.552†	26018.6	24171.8	148.73 ug/L	148.73 ppb		23:34:30
2	Sc 361.383	1010779.7	1010779.7	101.89 %			23:35:54
2	Y 371.029	1006183.6	1006183.6	117.00 %			23:35:54
2	Ag 328.068†	-5660.7	-5929.9	3.6201 ug/L	3.6201 ppb		23:35:59
2	As 188.979†	-48.3	-10.9	36.356 ug/L	36.356 ppb		23:36:19
2	B 249.677†	1674.6	1984.6	31.245 ug/L	31.245 ppb		23:35:59
2	Ba 233.527†	59672.3	58579.2	478.05 ug/L	478.05 ppb		23:35:59
2	Be 313.107†	-10747.6	-5745.3	3.2343 ug/L	3.2343 ppb		23:35:59
2	Cd 226.502†	651.9	823.4	0.2267 ug/L	0.2267 ppb		23:36:19
2	Co 228.616†	1320.0	1364.5	22.833 ug/L	22.833 ppb		23:36:19
2	Cr 267.716†	17495.3	17100.7	182.90 ug/L	182.90 ppb		23:35:59
2	Cu 324.752†	17265.8	7974.7	27.263 ug/L	27.263 ppb		23:35:59
2	Mn 257.610†	1960205.4	1923188.0	2169.7 ug/L	2169.7 ppb		23:35:54
2	Mo 202.031†	205.7	191.3	20.193 ug/L	20.193 ppb		23:36:19
2	Ni 231.604†	5044.7	4870.5	117.87 ug/L	117.87 ppb		23:36:19

2	P 214.914†	1299.3	1026.5	503.85 ug/L	503.85 ppb	23:36:19
2	Pb 220.353†	555.1	589.9	73.041 ug/L	73.041 ppb	23:36:19
2	S 181.975 Axial†	629.1	574.7	762.98 ug/L	762.98 ppb	23:36:19
2	Sb 206.836†	62.9	26.9	2.2312 ug/L	2.2312 ppb	23:36:19
2	Se 196.026†	-438.3	-406.4	70.319 ug/L	70.319 ppb	23:36:19
2	Si 251.611†	798882.9	783625.2	23937 ug/L	23937 ppb	23:35:54
2	Sn 189.927†	-107.6	-106.7	-14.726 ug/L	-14.726 ppb	23:36:19
2	Ti 334.940†	1576323.7	1548028.8	2350.0 ug/L	2350.0 ppb	23:35:54
2	Tl 190.801†	-139.6	-91.9	-0.3008 ug/L	-0.3008 ppb	23:36:19
2	U 409.014†	-10553.8	-7563.8	-203.50 ug/L	-203.50 ppb	23:35:54
2	V 292.402†	18439.3	19562.7	111.96 ug/L	111.96 ppb	23:35:59
2	Zn 213.857†	26291.4	24881.7	217.84 ug/L	217.84 ppb	23:35:59
2	SiO2†	796819.1	781605.7	50976 ug/L	50976 ppb	23:37:02
3	Sc Radial	5646.8	5646.8	107 %		23:34:55
3	Y RADIAL	6870.7	6870.7	124.4 %		23:34:55
3	Al 396.153Radial†	62803.3	58770.8	47475 ug/L	47475 ppb	23:34:55
3	Ca 317.933Radial†	13355.6	12454.6	20733 ug/L	20733 ppb	23:34:55
3	Fe 238.204 Radial†	9810.1	9153.5	87771 ug/L	87771 ppb	23:34:55
3	K 766.490 Radial†	44907.5	39286.4	7086.1 ug/L	7086.1 ppb	23:34:55
3	Mg 279.077 IEC†	262.9	244.2	9231.1 ug/L	9231.1 ppb	23:35:15
3	Na 589.592 Radial†	1740.4	2213.3	674.06 ug/L	674.06 ppb	23:34:55
3	Sr 421.552†	26068.2	24283.3	149.41 ug/L	149.41 ppb	23:34:55
3	Sc 361.383	995183.5	995183.5	100.32 %		23:36:25
3	Y 371.029	986934.5	986934.5	114.77 %		23:36:25
3	Ag 328.068†	-5447.2	-5804.3	4.1803 ug/L	4.1803 ppb	23:36:30
3	As 188.979†	-51.4	-14.7	34.738 ug/L	34.738 ppb	23:36:50
3	B 249.677†	1685.5	2021.2	32.068 ug/L	32.068 ppb	23:36:30
3	Ba 233.527†	58887.7	58714.8	479.15 ug/L	479.15 ppb	23:36:30
3	Be 313.107†	-10778.0	-5940.9	3.1459 ug/L	3.1459 ppb	23:36:30
3	Cd 226.502†	681.5	862.9	0.6620 ug/L	0.6620 ppb	23:36:50
3	Co 228.616†	1339.2	1404.0	23.688 ug/L	23.688 ppb	23:36:50
3	Cr 267.716†	17213.8	17089.2	182.78 ug/L	182.78 ppb	23:36:30
3	Cu 324.752†	17388.1	8362.1	28.364 ug/L	28.364 ppb	23:36:30
3	Mn 257.610†	1926398.0	1919637.8	2165.7 ug/L	2165.7 ppb	23:36:25
3	Mo 202.031†	232.4	221.1	22.245 ug/L	22.245 ppb	23:36:50
3	Ni 231.604†	5066.4	4969.6	120.27 ug/L	120.27 ppb	23:36:50
3	P 214.914†	1320.7	1067.7	526.42 ug/L	526.42 ppb	23:36:50
3	Pb 220.353†	563.7	607.0	75.152 ug/L	75.152 ppb	23:36:50
3	S 181.975 Axial†	625.2	580.4	770.57 ug/L	770.57 ppb	23:36:50
3	Sb 206.836†	62.6	27.5	2.4735 ug/L	2.4735 ppb	23:36:50
3	Se 196.026†	-449.9	-424.7	60.624 ug/L	60.624 ppb	23:36:50
3	Si 251.611†	785635.1	782707.0	23909 ug/L	23909 ppb	23:36:25
3	Sn 189.927†	-113.1	-113.9	-16.027 ug/L	-16.027 ppb	23:36:50
3	Ti 334.940†	1547042.5	1543086.1	2342.5 ug/L	2342.5 ppb	23:36:25
3	Tl 190.801†	-161.3	-115.8	-8.0943 ug/L	-8.0943 ppb	23:36:50
3	U 409.014†	-10542.9	-7715.3	-207.37 ug/L	-207.37 ppb	23:36:25
3	V 292.402†	17933.8	19342.4	110.54 ug/L	110.54 ppb	23:36:30
3	Zn 213.857†	25966.3	24962.1	218.55 ug/L	218.55 ppb	23:36:30
3	SiO2†	791086.1	788146.4	51403 ug/L	51403 ppb	23:37:08

Mean Data: 1202015836|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1025589.8	103.39 %		4.025			3.89%
Sc Radial	5722.9	108 %		2.3			2.08%
Y 371.029	1015350.5	118.07 %		3.947			3.34%
Y RADIAL	6951.0	125.9 %		2.41			1.91%
Ag 328.068†	-5821.5	3.5747 ug/L		0.62958	3.5747 ppb	0.62958	17.61%
Al 396.153Radial†	57474.6	46428 ug/L		1569.2	46428 ppb	1569.2	3.38%
As 188.979†	-10.8	35.527 ug/L		0.8092	35.527 ppb	0.8092	2.28%
B 249.677†	1979.7	31.382 ug/L		0.6288	31.382 ppb	0.6288	2.00%
Ba 233.527†	57803.9	471.71 ug/L		11.946	471.71 ppb	11.946	2.53%
Be 313.107†	-5727.4	3.1020 ug/L		0.15883	3.1020 ppb	0.15883	5.12%
Ca 317.933Radial†	12239.2	20374 ug/L		634.2	20374 ppb	634.2	3.11%
Cd 226.502†	829.7	0.4559 ug/L		0.21858	0.4559 ppb	0.21858	47.95%
Co 228.616†	1355.8	22.800 ug/L		0.9049	22.800 ppb	0.9049	3.97%
Cr 267.716†	16865.5	180.38 ug/L		4.267	180.38 ppb	4.267	2.37%
Cu 324.752†	7825.4	26.758 ug/L		1.9094	26.758 ppb	1.9094	7.14%
Fe 238.204 Radial†	8984.0	86147 ug/L		2735.8	86147 ppb	2735.8	3.18%
K 766.490 Radial†	38510.6	6946.2 ug/L		244.61	6946.2 ppb	244.61	3.52%

Mg 279.077 IEC†	239.4	9051.9 ug/L	193.06	9051.9 ppb	193.06	2.13%
Mn 257.610†	1873706.0	2113.9 ug/L	93.15	2113.9 ppb	93.15	4.41%
Mo 202.031†	200.7	20.713 ug/L	1.3492	20.713 ppb	1.3492	6.51%
Na 589.592 Radial†	2166.0	659.65 ug/L	22.027	659.65 ppb	22.027	3.34%
Ni 231.604†	4808.1	116.36 ug/L	4.843	116.36 ppb	4.843	4.16%
P 214.914†	1016.2	499.30 ug/L	29.662	499.30 ppb	29.662	5.94%
Pb 220.353†	582.3	72.102 ug/L	3.6116	72.102 ppb	3.6116	5.01%
S 181.975 Axial†	564.5	749.48 ug/L	30.193	749.48 ppb	30.193	4.03%
Sb 206.836†	27.2	2.5265 ug/L	0.32496	2.5265 ppb	0.32496	12.86%
Se 196.026†	-406.0	65.460 ug/L	4.8474	65.460 ppb	4.8474	7.41%
Si 251.611†	764609.2	23357 ug/L	981.9	23357 ppb	981.9	4.20%
Sn 189.927†	-109.9	-15.382 ug/L	0.6507	-15.382 ppb	0.6507	4.23%
Sr 421.552†	23749.6	146.13 ug/L	5.106	146.13 ppb	5.106	3.49%
Ti 334.940†	1507720.3	2288.9 ug/L	99.55	2288.9 ppb	99.55	4.35%
Tl 190.801†	-102.3	-4.4167 ug/L	3.91516	-4.4167 ppb	3.91516	88.64%
U 409.014†	-7390.3	-198.89 ug/L	11.503	-198.89 ppb	11.503	5.78%
V 292.402†	19176.7	109.75 ug/L	2.690	109.75 ppb	2.690	2.45%
Zn 213.857†	24490.9	214.43 ug/L	6.527	214.43 ppb	6.527	3.04%
SiO2†	766735.2	50006 ug/L	2060.3	50006 ppb	2060.3	4.12%

Sequence No.: 54
 Sample ID: 1202015838|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 66
 Date Collected: 1/29/2010 23:39:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202015838|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5598.8	5598.8	106 %		23:41:32
1	Y RADIAL	6679.0	6679.0	120.9 %		23:41:32
1	Al 396.153Radial†	108645.3	102462.0	82745 ug/L	82745 ppb	23:41:12
1	Ca 317.933Radial†	13402.8	12606.1	20985 ug/L	20985 ppb	23:41:12
1	Fe 238.204 Radial†	10381.6	9770.4	93702 ug/L	93702 ppb	23:41:12
1	K 766.490 Radial†	83499.9	76004.3	13714 ug/L	13714 ppb	23:41:12
1	Mg 279.077 IEC†	430.0	403.7	15323 ug/L	15323 ppb	23:41:32
1	Na 589.592 Radial†	19684.7	19132.6	5826.8 ug/L	5826.8 ppb	23:41:12
1	Sr 421.552†	110700.5	104224.5	641.79 ug/L	641.79 ppb	23:41:12
1	Sc 361.383	985990.3	985990.3	99.396 %		23:42:31
1	Y 371.029	971828.4	971828.4	113.01 %		23:42:31
1	Ag 328.068†	112085.6	112392.7	509.31 ug/L	509.31 ppb	23:42:31
1	As 188.979†	1173.6	1217.3	548.62 ug/L	548.62 ppb	23:42:51
1	B 249.677†	23273.0	23755.7	528.74 ug/L	528.74 ppb	23:42:31
1	Ba 233.527†	112877.3	113580.1	925.42 ug/L	925.42 ppb	23:42:31
1	Be 313.107†	1424092.7	1437554.5	531.73 ug/L	531.73 ppb	23:42:31
1	Cd 226.502†	43941.8	44392.5	489.29 ug/L	489.29 ppb	23:42:31
1	Co 228.616†	24270.3	24486.9	510.87 ug/L	510.87 ppb	23:42:51
1	Cr 267.716†	65062.1	65388.5	694.46 ug/L	694.46 ppb	23:42:31
1	Cu 324.752†	207364.9	199655.7	568.48 ug/L	568.48 ppb	23:42:31
1	Mn 257.610†	2161947.1	2174522.9	2452.5 ug/L	2452.5 ppb	23:42:31
1	Mo 202.031†	7418.0	7452.5	519.30 ug/L	519.30 ppb	23:42:51
1	Ni 231.604†	25471.5	25545.9	618.02 ug/L	618.02 ppb	23:42:51
1	P 214.914†	2249.6	2014.6	951.48 ug/L	951.48 ppb	23:42:51
1	Pb 220.353†	4612.4	4685.6	573.41 ug/L	573.41 ppb	23:42:51
1	S 181.975 Axial†	4324.7	4308.2	5770.4 ug/L	5770.4 ppb	23:42:51
1	Sb 206.836†	1586.4	1561.2	511.60 ug/L	511.60 ppb	23:42:51
1	Se 196.026†	452.4	478.9	578.98 ug/L	578.98 ppb	23:42:51
1	Si 251.611†	958180.2	963602.9	29429 ug/L	29429 ppb	23:42:31
1	Sn 189.927†	2774.2	2790.0	510.84 ug/L	510.84 ppb	23:42:51
1	Ti 334.940†	2080089.1	2093751.9	3176.9 ug/L	3176.9 ppb	23:42:31
1	Tl 190.801†	1388.3	1441.8	501.15 ug/L	501.15 ppb	23:42:51
1	U 409.014†	9115.4	11964.7	293.22 ug/L	293.22 ppb	23:42:31
1	V 292.402†	94346.2	96386.1	618.01 ug/L	618.01 ppb	23:42:31
1	Zn 213.857†	78827.4	78385.9	701.74 ug/L	701.74 ppb	23:42:31
1	SiO2†	972574.7	978090.9	63778 ug/L	63778 ppb	23:43:53
2	Sc Radial	5581.4	5581.4	106 %		23:41:57
2	Y RADIAL	6658.5	6658.5	120.6 %		23:41:57
2	Al 396.153Radial†	107495.8	101693.7	82125 ug/L	82125 ppb	23:41:37
2	Ca 317.933Radial†	13267.5	12517.5	20837 ug/L	20837 ppb	23:41:37
2	Fe 238.204 Radial†	10256.0	9682.2	92855 ug/L	92855 ppb	23:41:37
2	K 766.490 Radial†	82685.7	75479.4	13619 ug/L	13619 ppb	23:41:37
2	Mg 279.077 IEC†	433.4	408.2	15494 ug/L	15494 ppb	23:41:57
2	Na 589.592 Radial†	19383.6	18905.7	5757.7 ug/L	5757.7 ppb	23:41:37
2	Sr 421.552†	109242.9	103171.1	635.31 ug/L	635.31 ppb	23:41:37
2	Sc 361.383	1002422.2	1002422.2	101.05 %		23:42:59
2	Y 371.029	985238.9	985238.9	114.57 %		23:42:59
2	Ag 328.068†	113873.8	112313.7	508.70 ug/L	508.70 ppb	23:42:59
2	As 188.979†	1177.2	1201.5	541.98 ug/L	541.98 ppb	23:43:19
2	B 249.677†	23794.8	23888.2	531.94 ug/L	531.94 ppb	23:42:59
2	Ba 233.527†	115054.8	113873.4	927.77 ug/L	927.77 ppb	23:42:59
2	Be 313.107†	1443882.9	1433652.8	530.31 ug/L	530.31 ppb	23:42:59
2	Cd 226.502†	44614.1	44333.1	488.70 ug/L	488.70 ppb	23:42:59
2	Co 228.616†	24238.8	24055.5	501.74 ug/L	501.74 ppb	23:43:19
2	Cr 267.716†	65900.6	65145.2	691.86 ug/L	691.86 ppb	23:42:59
2	Cu 324.752†	211401.4	200230.4	570.05 ug/L	570.05 ppb	23:42:59
2	Mn 257.610†	2199011.8	2175547.2	2453.5 ug/L	2453.5 ppb	23:42:59
2	Mo 202.031†	7385.2	7297.7	508.61 ug/L	508.61 ppb	23:43:19
2	Ni 231.604†	25423.9	25078.8	606.72 ug/L	606.72 ppb	23:43:19

2	P 214.914†	2256.0	1983.8	934.56 ug/L	934.56 ppb	23:43:19
2	Pb 220.353†	4591.9	4589.2	561.74 ug/L	561.74 ppb	23:43:19
2	S 181.975 Axial†	4320.2	4232.5	5668.8 ug/L	5668.8 ppb	23:43:19
2	Sb 206.836†	1585.2	1533.8	502.35 ug/L	502.35 ppb	23:43:19
2	Se 196.026†	467.8	486.7	580.38 ug/L	580.38 ppb	23:43:19
2	Si 251.611†	976643.2	966071.5	29505 ug/L	29505 ppb	23:42:59
2	Sn 189.927†	2752.8	2723.0	498.66 ug/L	498.66 ppb	23:43:19
2	Ti 334.940†	2117097.6	2096070.6	3180.4 ug/L	3180.4 ppb	23:42:59
2	Tl 190.801†	1389.2	1419.7	494.10 ug/L	494.10 ppb	23:43:19
2	U 409.014†	9426.3	12121.9	297.33 ug/L	297.33 ppb	23:42:59
2	V 292.402†	95731.9	96201.4	616.79 ug/L	616.79 ppb	23:42:59
2	Zn 213.857†	80298.8	78542.0	703.31 ug/L	703.31 ppb	23:42:59
2	SiO2†	958681.5	948302.7	61835 ug/L	61835 ppb	23:43:59
3	Sc Radial	5593.2	5593.2	106 %		23:42:22
3	Y RADIAL	6703.1	6703.1	121.4 %		23:42:22
3	Al 396.153Radial†	108178.4	102123.9	82472 ug/L	82472 ppb	23:42:02
3	Ca 317.933Radial†	13299.0	12520.9	20843 ug/L	20843 ppb	23:42:02
3	Fe 238.204 Radial†	10329.8	9731.4	93327 ug/L	93327 ppb	23:42:02
3	K 766.490 Radial†	82883.7	75501.8	13623 ug/L	13623 ppb	23:42:02
3	Mg 279.077 IEC†	431.4	405.4	15388 ug/L	15388 ppb	23:42:22
3	Na 589.592 Radial†	19520.2	18996.1	5785.2 ug/L	5785.2 ppb	23:42:02
3	Sr 421.552†	109951.0	103621.9	638.08 ug/L	638.08 ppb	23:42:02
3	Sc 361.383	1004175.9	1004175.9	101.23 %		23:43:26
3	Y 371.029	986991.2	986991.2	114.77 %		23:43:26
3	Ag 328.068†	114084.6	112325.2	508.89 ug/L	508.89 ppb	23:43:26
3	As 188.979†	1175.8	1198.1	540.68 ug/L	540.68 ppb	23:43:46
3	B 249.677†	23806.6	23858.7	531.19 ug/L	531.19 ppb	23:43:26
3	Ba 233.527†	115047.0	113666.8	926.11 ug/L	926.11 ppb	23:43:26
3	Be 313.107†	1444245.3	1431515.3	529.53 ug/L	529.53 ppb	23:43:26
3	Cd 226.502†	44501.2	44144.6	486.53 ug/L	486.53 ppb	23:43:26
3	Co 228.616†	24194.7	23970.0	499.93 ug/L	499.93 ppb	23:43:46
3	Cr 267.716†	65926.5	65057.0	690.94 ug/L	690.94 ppb	23:43:26
3	Cu 324.752†	212038.6	200494.4	570.82 ug/L	570.82 ppb	23:43:26
3	Mn 257.610†	2198050.2	2170796.8	2448.3 ug/L	2448.3 ppb	23:43:26
3	Mo 202.031†	7397.4	7297.0	508.60 ug/L	508.60 ppb	23:43:46
3	Ni 231.604†	25370.8	24982.4	604.38 ug/L	604.38 ppb	23:43:46
3	P 214.914†	2249.7	1973.7	928.51 ug/L	928.51 ppb	23:43:46
3	Pb 220.353†	4585.9	4575.4	560.11 ug/L	560.11 ppb	23:43:46
3	S 181.975 Axial†	4304.6	4209.6	5638.0 ug/L	5638.0 ppb	23:43:46
3	Sb 206.836†	1590.8	1536.6	503.23 ug/L	503.23 ppb	23:43:46
3	Se 196.026†	455.8	474.0	575.04 ug/L	575.04 ppb	23:43:46
3	Si 251.611†	978557.0	966274.1	29511 ug/L	29511 ppb	23:43:26
3	Sn 189.927†	2746.2	2711.8	496.64 ug/L	496.64 ppb	23:43:46
3	Ti 334.940†	2120213.0	2095489.3	3179.5 ug/L	3179.5 ppb	23:43:26
3	Tl 190.801†	1409.1	1437.0	499.66 ug/L	499.66 ppb	23:43:46
3	U 409.014†	9564.8	12242.5	300.36 ug/L	300.36 ppb	23:43:26
3	V 292.402†	95889.2	96191.3	616.66 ug/L	616.66 ppb	23:43:26
3	Zn 213.857†	80092.9	78199.8	700.16 ug/L	700.16 ppb	23:43:26
3	SiO2†	971632.1	959439.3	62561 ug/L	62561 ppb	23:44:04

Mean Data: 1202015838|941795|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	997529.5	100.56	%	1.011				1.01%
Sc Radial	5591.1	106	%	0.2				0.16%
Y 371.029	981352.9	114.12	%	0.965				0.85%
Y RADIAL	6680.2	121.0	%	0.40				0.33%
Ag 328.068†	112343.9	508.97	ug/L	0.314	508.97	ppb	0.314	0.06%
Al 396.153Radial†	102093.2	82447	ug/L	310.8	82447	ppb	310.8	0.38%
As 188.979†	1205.6	543.76	ug/L	4.257	543.76	ppb	4.257	0.78%
B 249.677†	23834.2	530.62	ug/L	1.677	530.62	ppb	1.677	0.32%
Ba 233.527†	113706.7	926.43	ug/L	1.208	926.43	ppb	1.208	0.13%
Be 313.107†	1434240.8	530.52	ug/L	1.114	530.52	ppb	1.114	0.21%
Ca 317.933Radial†	12548.2	20888	ug/L	83.6	20888	ppb	83.6	0.40%
Cd 226.502†	44290.1	488.17	ug/L	1.450	488.17	ppb	1.450	0.30%
Co 228.616†	24170.8	504.18	ug/L	5.868	504.18	ppb	5.868	1.16%
Cr 267.716†	65196.9	692.42	ug/L	1.824	692.42	ppb	1.824	0.26%
Cu 324.752†	200126.8	569.78	ug/L	1.195	569.78	ppb	1.195	0.21%
Fe 238.204 Radial†	9728.0	93295	ug/L	424.2	93295	ppb	424.2	0.45%
K 766.490 Radial†	75661.8	13652	ug/L	53.6	13652	ppb	53.6	0.39%

Mg 279.077 IEC†	405.8	15402 ug/L	86.5	15402 ppb	86.5	0.56%
Mn 257.610†	2173622.3	2451.4 ug/L	2.80	2451.4 ppb	2.80	0.11%
Mo 202.031†	7349.1	512.17 ug/L	6.178	512.17 ppb	6.178	1.21%
Na 589.592 Radial†	19011.5	5789.9 ug/L	34.79	5789.9 ppb	34.79	0.60%
Ni 231.604†	25202.3	609.71 ug/L	7.292	609.71 ppb	7.292	1.20%
P 214.914†	1990.7	938.18 ug/L	11.903	938.18 ppb	11.903	1.27%
Pb 220.353†	4616.7	565.09 ug/L	7.252	565.09 ppb	7.252	1.28%
S 181.975 Axial†	4250.1	5692.4 ug/L	69.26	5692.4 ppb	69.26	1.22%
Sb 206.836†	1543.9	505.73 ug/L	5.103	505.73 ppb	5.103	1.01%
Se 196.026†	479.8	578.13 ug/L	2.767	578.13 ppb	2.767	0.48%
Si 251.611†	965316.1	29482 ug/L	45.5	29482 ppb	45.5	0.15%
Sn 189.927†	2741.6	502.05 ug/L	7.686	502.05 ppb	7.686	1.53%
Sr 421.552†	103672.5	638.40 ug/L	3.255	638.40 ppb	3.255	0.51%
Ti 334.940†	2095104.0	3178.9 ug/L	1.81	3178.9 ppb	1.81	0.06%
Tl 190.801†	1432.8	498.31 ug/L	3.716	498.31 ppb	3.716	0.75%
U 409.014†	12109.7	296.97 ug/L	3.585	296.97 ppb	3.585	1.21%
V 292.402†	96259.6	617.15 ug/L	0.745	617.15 ppb	0.745	0.12%
Zn 213.857†	78375.9	701.74 ug/L	1.578	701.74 ppb	1.578	0.22%
SiO2†	961944.3	62725 ug/L	981.5	62725 ppb	981.5	1.56%

Sequence No.: 55
 Sample ID: 1202015839|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 67
 Date Collected: 1/29/2010 23:46:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202015839|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5550.4	5550.4	105 %		23:48:28
1	Y RADIAL	6676.3	6676.3	120.9 %		23:48:28
1	Al 396.153Radial†	109418.8	104090.1	84061 ug/L	84061 ppb	23:48:08
1	Ca 317.933Radial†	15502.9	14712.1	24490 ug/L	24490 ppb	23:48:08
1	Fe 238.204 Radial†	10144.5	9630.5	92359 ug/L	92359 ppb	23:48:08
1	K 766.490 Radial†	83929.2	77098.6	13910 ug/L	13910 ppb	23:48:08
1	Mg 279.077 IEC†	439.8	416.6	15814 ug/L	15814 ppb	23:48:28
1	Na 589.592 Radial†	18579.1	18243.8	5556.1 ug/L	5556.1 ppb	23:48:08
1	Sr 421.552†	110525.3	104967.9	646.35 ug/L	646.35 ppb	23:48:08
1	Sc 361.383	1001413.0	1001413.0	100.95 %		23:49:27
1	Y 371.029	989581.2	989581.2	115.07 %		23:49:27
1	Ag 328.068†	111879.4	110451.7	500.55 ug/L	500.55 ppb	23:49:27
1	As 188.979†	1161.3	1186.9	535.74 ug/L	535.74 ppb	23:49:47
1	B 249.677†	23686.6	23804.7	530.13 ug/L	530.13 ppb	23:49:27
1	Ba 233.527†	119241.4	118135.2	962.30 ug/L	962.30 ppb	23:49:27
1	Be 313.107†	1418274.1	1409724.8	521.54 ug/L	521.54 ppb	23:49:27
1	Cd 226.502†	43713.5	43485.5	479.22 ug/L	479.22 ppb	23:49:27
1	Co 228.616†	23842.6	23687.2	494.00 ug/L	494.00 ppb	23:49:47
1	Cr 267.716†	63764.0	63094.4	670.14 ug/L	670.14 ppb	23:49:27
1	Cu 324.752†	209738.7	198794.1	565.97 ug/L	565.97 ppb	23:49:27
1	Mn 257.610†	2189748.6	2168564.0	2445.6 ug/L	2445.6 ppb	23:49:27
1	Mo 202.031†	7194.1	7115.8	496.12 ug/L	496.12 ppb	23:49:47
1	Ni 231.604†	24717.7	24404.6	590.40 ug/L	590.40 ppb	23:49:47
1	P 214.914†	2371.5	2100.5	1000.6 ug/L	1000.6 ppb	23:49:47
1	Pb 220.353†	4576.2	4578.3	560.93 ug/L	560.93 ppb	23:49:47
1	S 181.975 Axial†	4417.7	4333.3	5803.9 ug/L	5803.9 ppb	23:49:47
1	Sb 206.836†	1545.4	1495.9	489.74 ug/L	489.74 ppb	23:49:47
1	Se 196.026†	438.4	458.0	563.12 ug/L	563.12 ppb	23:49:47
1	Si 251.611†	1028335.5	1018251.0	31099 ug/L	31099 ppb	23:49:27
1	Sn 189.927†	2691.3	2664.9	488.67 ug/L	488.67 ppb	23:49:47
1	Ti 334.940†	2101919.1	2083146.2	3161.2 ug/L	3161.2 ppb	23:49:27
1	Tl 190.801†	1385.7	1417.7	493.28 ug/L	493.28 ppb	23:49:47
1	U 409.014†	9364.3	12070.0	296.11 ug/L	296.11 ppb	23:49:27
1	V 292.402†	94317.4	94895.7	608.22 ug/L	608.22 ppb	23:49:27
1	Zn 213.857†	79246.2	77579.4	694.68 ug/L	694.68 ppb	23:49:27
1	SiO2†	1020809.8	1010802.1	65912 ug/L	65912 ppb	23:50:49
2	Sc Radial	5551.9	5551.9	105 %		23:48:53
2	Y RADIAL	6668.9	6668.9	120.7 %		23:48:53
2	Al 396.153Radial†	110352.2	104948.0	84754 ug/L	84754 ppb	23:48:33
2	Ca 317.933Radial†	15653.5	14851.1	24722 ug/L	24722 ppb	23:48:33
2	Fe 238.204 Radial†	10248.9	9727.0	93285 ug/L	93285 ppb	23:48:33
2	K 766.490 Radial†	84830.4	77932.7	14061 ug/L	14061 ppb	23:48:33
2	Mg 279.077 IEC†	439.8	416.5	15810 ug/L	15810 ppb	23:48:53
2	Na 589.592 Radial†	18883.5	18528.0	5642.6 ug/L	5642.6 ppb	23:48:33
2	Sr 421.552†	111837.1	106185.1	653.84 ug/L	653.84 ppb	23:48:33
2	Sc 361.383	997372.3	997372.3	100.54 %		23:49:55
2	Y 371.029	984610.1	984610.1	114.49 %		23:49:55
2	Ag 328.068†	111541.9	110565.0	501.33 ug/L	501.33 ppb	23:49:55
2	As 188.979†	1159.4	1189.7	537.07 ug/L	537.07 ppb	23:50:15
2	B 249.677†	23526.8	23740.8	528.50 ug/L	528.50 ppb	23:49:55
2	Ba 233.527†	118708.3	118083.6	961.91 ug/L	961.91 ppb	23:49:55
2	Be 313.107†	1411048.3	1408230.0	520.99 ug/L	520.99 ppb	23:49:55
2	Cd 226.502†	43716.8	43664.3	481.14 ug/L	481.14 ppb	23:49:55
2	Co 228.616†	23916.9	23856.8	497.58 ug/L	497.58 ppb	23:50:15
2	Cr 267.716†	63519.5	63107.2	670.30 ug/L	670.30 ppb	23:49:55
2	Cu 324.752†	208723.4	198626.0	565.55 ug/L	565.55 ppb	23:49:55
2	Mn 257.610†	2181620.2	2169267.4	2446.5 ug/L	2446.5 ppb	23:49:55
2	Mo 202.031†	7234.0	7184.4	500.90 ug/L	500.90 ppb	23:50:15
2	Ni 231.604†	24805.6	24591.2	594.92 ug/L	594.92 ppb	23:50:15

2	P 214.914†	2361.5	2100.1	999.94 ug/L	999.94 ppb	23:50:15
2	Pb 220.353†	4574.5	4594.9	563.00 ug/L	563.00 ppb	23:50:15
2	S 181.975 Axial†	4409.5	4343.0	5816.7 ug/L	5816.7 ppb	23:50:15
2	Sb 206.836†	1554.6	1511.4	494.85 ug/L	494.85 ppb	23:50:15
2	Se 196.026†	451.3	472.6	574.25 ug/L	574.25 ppb	23:50:15
2	Si 251.611†	1024805.9	1018867.4	31118 ug/L	31118 ppb	23:49:55
2	Sn 189.927†	2696.9	2681.2	491.68 ug/L	491.68 ppb	23:50:15
2	Ti 334.940†	2093453.7	2083162.0	3161.3 ug/L	3161.3 ppb	23:49:55
2	Tl 190.801†	1367.4	1405.1	489.20 ug/L	489.20 ppb	23:50:15
2	U 409.014†	9318.5	12061.9	295.80 ug/L	295.80 ppb	23:49:55
2	V 292.402†	94024.9	94983.3	608.72 ug/L	608.72 ppb	23:49:55
2	Zn 213.857†	78863.3	77516.6	693.99 ug/L	693.99 ppb	23:49:55
2	SiO2†	1029680.6	1023721.8	66754 ug/L	66754 ppb	23:50:54
3	Sc Radial	5504.8	5504.8	104 %		23:49:18
3	Y RADIAL	6640.3	6640.3	120.2 %		23:49:18
3	Al 396.153Radial†	107537.1	103148.4	83300 ug/L	83300 ppb	23:48:58
3	Ca 317.933Radial†	15278.9	14619.4	24336 ug/L	24336 ppb	23:48:58
3	Fe 238.204 Radial†	9937.6	9512.0	91224 ug/L	91224 ppb	23:48:58
3	K 766.490 Radial†	82510.5	76399.9	13784 ug/L	13784 ppb	23:48:58
3	Mg 279.077 IEC†	438.8	419.1	15912 ug/L	15912 ppb	23:49:18
3	Na 589.592 Radial†	18121.3	17951.3	5467.0 ug/L	5467.0 ppb	23:48:58
3	Sr 421.552†	108024.4	103441.7	636.95 ug/L	636.95 ppb	23:48:58
3	Sc 361.383	997788.7	997788.7	100.58 %		23:50:22
3	Y 371.029	985738.0	985738.0	114.63 %		23:50:22
3	Ag 328.068†	111407.5	110385.0	499.91 ug/L	499.91 ppb	23:50:22
3	As 188.979†	1145.8	1175.7	530.81 ug/L	530.81 ppb	23:50:42
3	B 249.677†	23541.8	23746.0	528.96 ug/L	528.96 ppb	23:50:22
3	Ba 233.527†	118497.4	117824.7	959.75 ug/L	959.75 ppb	23:50:22
3	Be 313.107†	1412314.0	1408902.6	521.23 ug/L	521.23 ppb	23:50:22
3	Cd 226.502†	43664.9	43594.5	480.56 ug/L	480.56 ppb	23:50:22
3	Co 228.616†	23768.2	23699.0	494.28 ug/L	494.28 ppb	23:50:42
3	Cr 267.716†	63525.9	63087.2	670.05 ug/L	670.05 ppb	23:50:22
3	Cu 324.752†	208567.6	198384.5	564.76 ug/L	564.76 ppb	23:50:22
3	Mn 257.610†	2177673.5	2164438.2	2440.9 ug/L	2440.9 ppb	23:50:22
3	Mo 202.031†	7196.7	7144.2	497.98 ug/L	497.98 ppb	23:50:42
3	Ni 231.604†	24690.6	24466.5	591.90 ug/L	591.90 ppb	23:50:42
3	P 214.914†	2351.1	2088.7	995.10 ug/L	995.10 ppb	23:50:42
3	Pb 220.353†	4587.6	4606.1	564.22 ug/L	564.22 ppb	23:50:42
3	S 181.975 Axial†	4381.0	4312.8	5776.4 ug/L	5776.4 ppb	23:50:42
3	Sb 206.836†	1545.7	1501.9	491.71 ug/L	491.71 ppb	23:50:42
3	Se 196.026†	444.2	465.3	563.35 ug/L	563.35 ppb	23:50:42
3	Si 251.611†	1023728.5	1017371.0	31072 ug/L	31072 ppb	23:50:22
3	Sn 189.927†	2687.8	2671.1	489.74 ug/L	489.74 ppb	23:50:42
3	Ti 334.940†	2091142.3	2079995.1	3156.4 ug/L	3156.4 ppb	23:50:22
3	Tl 190.801†	1366.1	1403.2	488.54 ug/L	488.54 ppb	23:50:42
3	U 409.014†	9216.8	11957.0	293.36 ug/L	293.36 ppb	23:50:22
3	V 292.402†	94060.0	94979.2	608.96 ug/L	608.96 ppb	23:50:22
3	Zn 213.857†	78911.2	77531.5	694.35 ug/L	694.35 ppb	23:50:22
3	SiO2†	1025682.5	1019319.6	66467 ug/L	66467 ppb	23:51:00

Mean Data: 1202015839|941795|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	998858.0	100.69 %	0.224			0.22%
Sc Radial	5535.7	105 %	0.5			0.48%
Y 371.029	986643.1	114.73 %	0.303			0.26%
Y RADIAL	6661.8	120.6 %	0.34			0.29%
Ag 328.068†	110467.2	500.60 ug/L	0.713	500.60 ppb	0.713	0.14%
Al 396.153Radial†	104062.1	84038 ug/L	727.1	84038 ppb	727.1	0.87%
As 188.979†	1184.1	534.54 ug/L	3.298	534.54 ppb	3.298	0.62%
B 249.677†	23763.8	529.20 ug/L	0.838	529.20 ppb	0.838	0.16%
Ba 233.527†	118014.5	961.32 ug/L	1.375	961.32 ppb	1.375	0.14%
Be 313.107†	1408952.5	521.25 ug/L	0.274	521.25 ppb	0.274	0.05%
Ca 317.933Radial†	14727.5	24516 ug/L	194.1	24516 ppb	194.1	0.79%
Cd 226.502†	43581.4	480.31 ug/L	0.983	480.31 ppb	0.983	0.20%
Co 228.616†	23747.7	495.29 ug/L	1.992	495.29 ppb	1.992	0.40%
Cr 267.716†	63096.3	670.16 ug/L	0.126	670.16 ppb	0.126	0.02%
Cu 324.752†	198601.5	565.43 ug/L	0.616	565.43 ppb	0.616	0.11%
Fe 238.204 Radial†	9623.2	92289 ug/L	1032.5	92289 ppb	1032.5	1.12%
K 766.490 Radial†	77143.7	13918 ug/L	138.5	13918 ppb	138.5	0.99%

Mg 279.077 IEC†	417.4	15845 ug/L	58.0	15845 ppb	58.0	0.37%
Mn 257.610†	2167423.2	2444.3 ug/L	3.03	2444.3 ppb	3.03	0.12%
Mo 202.031†	7148.1	498.34 ug/L	2.410	498.34 ppb	2.410	0.48%
Na 589.592 Radial†	18241.0	5555.2 ug/L	87.82	5555.2 ppb	87.82	1.58%
Ni 231.604†	24487.4	592.41 ug/L	2.299	592.41 ppb	2.299	0.39%
P 214.914†	2096.5	998.56 ug/L	3.022	998.56 ppb	3.022	0.30%
Pb 220.353†	4593.1	562.72 ug/L	1.664	562.72 ppb	1.664	0.30%
S 181.975 Axial†	4329.7	5799.0 ug/L	20.55	5799.0 ppb	20.55	0.35%
Sb 206.836†	1503.1	492.10 ug/L	2.576	492.10 ppb	2.576	0.52%
Se 196.026†	465.3	566.91 ug/L	6.362	566.91 ppb	6.362	1.12%
Si 251.611†	1018163.1	31096 ug/L	23.0	31096 ppb	23.0	0.07%
Sn 189.927†	2672.4	490.03 ug/L	1.524	490.03 ppb	1.524	0.31%
Sr 421.552†	104864.9	645.71 ug/L	8.465	645.71 ppb	8.465	1.31%
Ti 334.940†	2082101.1	3159.7 ug/L	2.79	3159.7 ppb	2.79	0.09%
Tl 190.801†	1408.7	490.34 ug/L	2.571	490.34 ppb	2.571	0.52%
U 409.014†	12029.6	295.09 ug/L	1.509	295.09 ppb	1.509	0.51%
V 292.402†	94952.7	608.64 ug/L	0.377	608.64 ppb	0.377	0.06%
Zn 213.857†	77542.5	694.34 ug/L	0.345	694.34 ppb	0.345	0.05%
SiO2†	1017947.8	66378 ug/L	428.3	66378 ppb	428.3	0.65%

Sequence No.: 56

Sample ID: 1202015837|941795|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 68

Date Collected: 1/29/2010 23:53:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202015837|941795|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5715.0	5715.0	108 %		23:55:05
1	Y RADIAL	6166.6	6166.6	111.7 %		23:55:05
1	Al 396.153Radial†	14007.2	13034.7	10529 ug/L	10529 ppb	23:55:05
1	Ca 317.933Radial†	2597.1	2376.3	3955.7 ug/L	3955.7 ppb	23:55:25
1	Fe 238.204 Radial†	2283.9	2097.8	20115 ug/L	20115 ppb	23:55:25
1	K 766.490 Radial†	12361.5	8747.7	1578.1 ug/L	1578.1 ppb	23:55:05
1	Mg 279.077 IEC†	61.0	54.9	2076.8 ug/L	2076.8 ppb	23:55:25
1	Na 589.592 Radial†	-304.1	307.0	93.489 ug/L	93.489 ppb	23:55:05
1	Sr 421.552†	5167.6	4702.7	28.936 ug/L	28.936 ppb	23:55:05
1	Sc 361.383	995634.4	995634.4	100.37 %		23:56:22
1	Y 371.029	889313.0	889313.0	103.41 %		23:56:22
1	Ag 328.068†	-957.7	-1328.7	0.9702 ug/L	0.9702 ppb	23:56:27
1	As 188.979†	-40.9	-4.2	7.5908 ug/L	7.5908 ppb	23:56:47
1	B 249.677†	213.1	553.4	9.4208 ug/L	9.4208 ppb	23:56:27
1	Ba 233.527†	12461.0	12431.7	101.50 ug/L	101.50 ppb	23:56:27
1	Be 313.107†	-5994.5	-1170.0	0.7851 ug/L	0.7851 ppb	23:56:27
1	Cd 226.502†	15.4	198.9	0.1650 ug/L	0.1650 ppb	23:56:47
1	Co 228.616†	233.1	301.3	4.9988 ug/L	4.9988 ppb	23:56:47
1	Cr 267.716†	3997.0	3913.1	41.851 ug/L	41.851 ppb	23:56:27
1	Cu 324.752†	10986.0	1975.6	6.6648 ug/L	6.6648 ppb	23:56:27
1	Mn 257.610†	441758.8	439569.8	495.92 ug/L	495.92 ppb	23:56:22
1	Mo 202.031†	68.6	57.8	5.5747 ug/L	5.5747 ppb	23:56:47
1	Ni 231.604†	1211.0	1126.1	27.252 ug/L	27.252 ppb	23:56:47
1	P 214.914†	480.6	230.2	112.49 ug/L	112.49 ppb	23:56:47
1	Pb 220.353†	102.9	147.7	18.166 ug/L	18.166 ppb	23:56:47
1	S 181.975 Axial†	164.9	121.6	161.28 ug/L	161.28 ppb	23:56:47
1	Sb 206.836†	44.0	9.0	1.4442 ug/L	1.4442 ppb	23:56:47
1	Se 196.026†	-116.1	-92.0	16.811 ug/L	16.811 ppb	23:56:47
1	Si 251.611†	181691.4	180621.9	5517.5 ug/L	5517.5 ppb	23:56:22
1	Sn 189.927†	-30.9	-31.9	-4.8417 ug/L	-4.8417 ppb	23:56:47
1	Ti 334.940†	352240.5	351964.3	534.21 ug/L	534.21 ppb	23:56:22
1	Tl 190.801†	-61.3	-16.0	1.5237 ug/L	1.5237 ppb	23:56:47
1	U 409.014†	-4391.2	-1581.3	-42.756 ug/L	-42.756 ppb	23:56:22
1	V 292.402†	2931.6	4387.0	25.054 ug/L	25.054 ppb	23:56:27
1	Zn 213.857†	6651.5	5706.3	49.956 ug/L	49.956 ppb	23:56:27
1	SiO2†	181084.2	180022.9	11741 ug/L	11741 ppb	23:57:53
2	Sc Radial	5542.6	5542.6	105 %		23:55:30
2	Y RADIAL	5985.3	5985.3	108.4 %		23:55:30
2	Al 396.153Radial†	13750.0	13192.1	10656 ug/L	10656 ppb	23:55:30
2	Ca 317.933Radial†	2591.0	2445.0	4070.1 ug/L	4070.1 ppb	23:55:50
2	Fe 238.204 Radial†	2279.7	2159.4	20706 ug/L	20706 ppb	23:55:50
2	K 766.490 Radial†	12047.3	8803.6	1588.1 ug/L	1588.1 ppb	23:55:30
2	Mg 279.077 IEC†	60.3	56.0	2117.5 ug/L	2117.5 ppb	23:55:50
2	Na 589.592 Radial†	-211.0	386.8	117.81 ug/L	117.81 ppb	23:55:30
2	Sr 421.552†	5006.1	4697.3	28.902 ug/L	28.902 ppb	23:55:30
2	Sc 361.383	999526.1	999526.1	100.76 %		23:56:52
2	Y 371.029	892712.2	892712.2	103.81 %		23:56:52
2	Ag 328.068†	-991.7	-1358.7	1.0346 ug/L	1.0346 ppb	23:56:57
2	As 188.979†	-43.7	-6.9	6.6384 ug/L	6.6384 ppb	23:57:17
2	B 249.677†	228.1	567.4	9.6471 ug/L	9.6471 ppb	23:56:57
2	Ba 233.527†	12517.5	12439.4	101.58 ug/L	101.58 ppb	23:56:57
2	Be 313.107†	-6048.3	-1200.2	0.7725 ug/L	0.7725 ppb	23:56:57
2	Cd 226.502†	25.8	209.2	0.2184 ug/L	0.2184 ppb	23:57:17
2	Co 228.616†	239.4	306.7	5.1054 ug/L	5.1054 ppb	23:57:17
2	Cr 267.716†	4035.6	3935.9	42.106 ug/L	42.106 ppb	23:56:57
2	Cu 324.752†	10878.5	1826.3	6.2768 ug/L	6.2768 ppb	23:56:57
2	Mn 257.610†	443986.3	440066.7	496.53 ug/L	496.53 ppb	23:56:52
2	Mo 202.031†	70.7	59.6	5.7488 ug/L	5.7488 ppb	23:57:17
2	Ni 231.604†	1193.5	1104.0	26.718 ug/L	26.718 ppb	23:57:17

2	P 214.914†	472.4	220.1	106.55 ug/L	106.55 ppb	23:57:17
2	Pb 220.353†	104.2	148.5	18.236 ug/L	18.236 ppb	23:57:17
2	S 181.975 Axial†	160.5	116.6	154.54 ug/L	154.54 ppb	23:57:17
2	Sb 206.836†	40.2	5.1	0.1730 ug/L	0.1730 ppb	23:57:17
2	Se 196.026†	-104.8	-80.2	25.200 ug/L	25.200 ppb	23:57:17
2	Si 251.611†	182011.8	180235.1	5505.6 ug/L	5505.6 ppb	23:56:52
2	Sn 189.927†	-41.0	-41.8	-6.6148 ug/L	-6.6148 ppb	23:57:17
2	Ti 334.940†	353149.5	351500.0	533.52 ug/L	533.52 ppb	23:56:52
2	Tl 190.801†	-66.4	-20.8	-0.0312 ug/L	-0.0312 ppb	23:57:17
2	U 409.014†	-4567.7	-1739.4	-46.860 ug/L	-46.860 ppb	23:56:52
2	V 292.402†	2892.0	4336.4	24.634 ug/L	24.634 ppb	23:56:57
2	Zn 213.857†	6630.6	5659.7	49.478 ug/L	49.478 ppb	23:56:57
2	SiO2†	181980.9	180210.3	11753 ug/L	11753 ppb	23:57:59
3	Sc Radial	5798.0	5798.0	110 %		23:55:55
3	Y RADIAL	6297.3	6297.3	114.0 %		23:55:55
3	Al 396.153Radial†	13994.0	12837.8	10370 ug/L	10370 ppb	23:55:55
3	Ca 317.933Radial†	2589.0	2334.7	3886.4 ug/L	3886.4 ppb	23:56:15
3	Fe 238.204 Radial†	2276.9	2061.3	19766 ug/L	19766 ppb	23:56:15
3	K 766.490 Radial†	12209.7	8446.5	1523.7 ug/L	1523.7 ppb	23:55:55
3	Mg 279.077 IEC†	60.4	53.6	2026.8 ug/L	2026.8 ppb	23:56:15
3	Na 589.592 Radial†	-225.9	382.2	116.39 ug/L	116.39 ppb	23:55:55
3	Sr 421.552†	5111.0	4582.9	28.199 ug/L	28.199 ppb	23:55:55
3	Sc 361.383	999726.6	999726.6	100.78 %		23:57:23
3	Y 371.029	892716.2	892716.2	103.81 %		23:57:23
3	Ag 328.068†	-1041.2	-1407.7	0.5233 ug/L	0.5233 ppb	23:57:28
3	As 188.979†	-44.0	-7.2	6.2850 ug/L	6.2850 ppb	23:57:48
3	B 249.677†	241.0	580.2	10.093 ug/L	10.093 ppb	23:57:28
3	Ba 233.527†	12490.4	12410.1	101.32 ug/L	101.32 ppb	23:57:28
3	Be 313.107†	-6045.5	-1196.2	0.7747 ug/L	0.7747 ppb	23:57:28
3	Cd 226.502†	16.8	200.2	0.2157 ug/L	0.2157 ppb	23:57:48
3	Co 228.616†	234.2	301.5	5.0074 ug/L	5.0074 ppb	23:57:48
3	Cr 267.716†	4063.2	3962.5	42.367 ug/L	42.367 ppb	23:57:28
3	Cu 324.752†	10891.2	1836.7	6.2547 ug/L	6.2547 ppb	23:57:28
3	Mn 257.610†	442330.3	438335.2	494.50 ug/L	494.50 ppb	23:57:23
3	Mo 202.031†	65.0	53.9	5.2801 ug/L	5.2801 ppb	23:57:48
3	Ni 231.604†	1192.7	1103.0	26.694 ug/L	26.694 ppb	23:57:48
3	P 214.914†	466.1	213.9	103.78 ug/L	103.78 ppb	23:57:48
3	Pb 220.353†	96.3	140.7	17.319 ug/L	17.319 ppb	23:57:48
3	S 181.975 Axial†	163.7	119.7	158.86 ug/L	158.86 ppb	23:57:48
3	Sb 206.836†	51.8	16.5	3.8489 ug/L	3.8489 ppb	23:57:48
3	Se 196.026†	-109.6	-85.0	19.463 ug/L	19.463 ppb	23:57:48
3	Si 251.611†	181945.2	180132.8	5502.5 ug/L	5502.5 ppb	23:57:23
3	Sn 189.927†	-30.3	-31.1	-4.7238 ug/L	-4.7238 ppb	23:57:48
3	Ti 334.940†	353452.4	351730.3	533.85 ug/L	533.85 ppb	23:57:23
3	Tl 190.801†	-62.2	-16.7	1.3035 ug/L	1.3035 ppb	23:57:48
3	U 409.014†	-4440.7	-1612.5	-43.513 ug/L	-43.513 ppb	23:57:23
3	V 292.402†	2938.5	4381.9	25.066 ug/L	25.066 ppb	23:57:28
3	Zn 213.857†	6624.5	5652.4	49.502 ug/L	49.502 ppb	23:57:28
3	SiO2†	184486.5	182660.3	11913 ug/L	11913 ppb	23:58:04

Mean Data: 1202015837|941795|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	998295.7	100.64 %	%	0.233			0.23%
Sc Radial	5685.2	108 %	%	2.5			2.29%
Y 371.029	891580.5	103.68 %	%	0.228			0.22%
Y RADIAL	6149.8	111.3 %	%	2.84			2.55%
Ag 328.068†	-1365.0	0.8427 ug/L	ug/L	0.27852	0.8427 ppb	0.27852	33.05%
Al 396.153Radial†	13021.5	10519 ug/L	ug/L	143.4	10519 ppb	143.4	1.36%
As 188.979†	-6.1	6.8381 ug/L	ug/L	0.67541	6.8381 ppb	0.67541	9.88%
B 249.677†	567.0	9.7203 ug/L	ug/L	0.34203	9.7203 ppb	0.34203	3.52%
Ba 233.527†	12427.1	101.47 ug/L	ug/L	0.136	101.47 ppb	0.136	0.13%
Be 313.107†	-1188.8	0.7774 ug/L	ug/L	0.00672	0.7774 ppb	0.00672	0.86%
Ca 317.933Radial†	2385.3	3970.7 ug/L	ug/L	92.79	3970.7 ppb	92.79	2.34%
Cd 226.502†	202.8	0.1997 ug/L	ug/L	0.03006	0.1997 ppb	0.03006	15.05%
Co 228.616†	303.2	5.0372 ug/L	ug/L	0.05925	5.0372 ppb	0.05925	1.18%
Cr 267.716†	3937.2	42.108 ug/L	ug/L	0.2580	42.108 ppb	0.2580	0.61%
Cu 324.752†	1879.5	6.3987 ug/L	ug/L	0.23065	6.3987 ppb	0.23065	3.60%
Fe 238.204 Radial†	2106.2	20196 ug/L	ug/L	475.5	20196 ppb	475.5	2.35%
K 766.490 Radial†	8665.9	1563.3 ug/L	ug/L	34.66	1563.3 ppb	34.66	2.22%

Mg 279.077 IEC†	54.9	2073.7 ug/L	45.44	2073.7 ppb	45.44	2.19%
Mn 257.610†	439323.9	495.65 ug/L	1.044	495.65 ppb	1.044	0.21%
Mo 202.031†	57.1	5.5345 ug/L	0.23688	5.5345 ppb	0.23688	4.28%
Na 589.592 Radial†	358.7	109.23 ug/L	13.648	109.23 ppb	13.648	12.50%
Ni 231.604†	1111.0	26.888 ug/L	0.3157	26.888 ppb	0.3157	1.17%
P 214.914†	221.4	107.61 ug/L	4.450	107.61 ppb	4.450	4.14%
Pb 220.353†	145.6	17.907 ug/L	0.5103	17.907 ppb	0.5103	2.85%
S 181.975 Axial†	119.3	158.23 ug/L	3.415	158.23 ppb	3.415	2.16%
Sb 206.836†	10.2	1.8220 ug/L	1.86687	1.8220 ppb	1.86687	102.46%
Se 196.026†	-85.7	20.491 ug/L	4.2876	20.491 ppb	4.2876	20.92%
Si 251.611†	180329.9	5508.5 ug/L	7.88	5508.5 ppb	7.88	0.14%
Sn 189.927†	-34.9	-5.3935 ug/L	1.05938	-5.3935 ppb	1.05938	19.64%
Sr 421.552†	4661.0	28.679 ug/L	0.4161	28.679 ppb	0.4161	1.45%
Ti 334.940†	351731.5	533.86 ug/L	0.345	533.86 ppb	0.345	0.06%
Tl 190.801†	-17.8	0.9320 ug/L	0.84139	0.9320 ppb	0.84139	90.28%
U 409.014†	-1644.4	-44.376 ug/L	2.1839	-44.376 ppb	2.1839	4.92%
V 292.402†	4368.5	24.918 ug/L	0.2459	24.918 ppb	0.2459	0.99%
Zn 213.857†	5672.8	49.645 ug/L	0.2694	49.645 ppb	0.2694	0.54%
SiO2†	180964.5	11802 ug/L	96.0	11802 ppb	96.0	0.81%

Sequence No.: 57
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 1/30/2010 00:00:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5502.5	5502.5	104 %		00:02:07
1	Y RADIAL	5748.7	5748.7	104.1 %		00:02:07
1	Al 396.153Radial†	6333.1	6177.8	4965.5 ug/L	4965.5 ppb	00:02:07
1	Ca 317.933Radial†	3169.7	3017.8	5023.5 ug/L	5023.5 ppb	00:02:27
1	Fe 238.204 Radial†	570.0	536.3	5158.1 ug/L	5158.1 ppb	00:02:27
1	K 766.490 Radial†	32363.7	28362.3	5115.1 ug/L	5115.1 ppb	00:02:07
1	Mg 279.077 IEC†	145.1	137.7	5258.0 ug/L	5258.0 ppb	00:02:27
1	Na 589.592 Radial†	34049.3	33227.0	10119 ug/L	10119 ppb	00:02:07
1	Sr 421.552†	86261.6	82622.9	508.86 ug/L	508.86 ppb	00:02:07
1	Sc 361.383	980771.1	980771.1	98.869 %		00:03:25
1	Y 371.029	843153.5	843153.5	98.046 %		00:03:25
1	Ag 328.068†	121959.0	122979.0	525.18 ug/L	525.18 ppb	00:03:30
1	As 188.979†	1216.7	1267.1	525.31 ug/L	525.31 ppb	00:03:50
1	B 249.677†	22180.1	22774.8	520.58 ug/L	520.58 ppb	00:03:30
1	Ba 233.527†	63750.9	64496.2	524.40 ug/L	524.40 ppb	00:03:30
1	Be 313.107†	1398764.0	1419560.6	519.12 ug/L	519.12 ppb	00:03:25
1	Cd 226.502†	45938.1	46646.9	523.73 ug/L	523.73 ppb	00:03:30
1	Co 228.616†	24444.6	24793.2	524.09 ug/L	524.09 ppb	00:03:30
1	Cr 267.716†	49037.7	49529.1	524.70 ug/L	524.70 ppb	00:03:30
1	Cu 324.752†	191700.0	184921.9	522.08 ug/L	522.08 ppb	00:03:30
1	Mn 257.610†	455022.7	459655.5	516.88 ug/L	516.88 ppb	00:03:25
1	Mo 202.031†	7430.3	7504.7	515.83 ug/L	515.83 ppb	00:03:50
1	Ni 231.604†	21556.2	21722.3	525.46 ug/L	525.46 ppb	00:03:30
1	P 214.914†	4839.5	4646.1	2466.2 ug/L	2466.2 ppb	00:03:50
1	Pb 220.353†	4212.6	4305.9	519.34 ug/L	519.34 ppb	00:03:50
1	S 181.975 Axial†	803.9	770.4	1033.7 ug/L	1033.7 ppb	00:03:50
1	Sb 206.836†	1613.8	1597.4	531.67 ug/L	531.67 ppb	00:03:50
1	Se 196.026†	904.5	938.6	533.09 ug/L	533.09 ppb	00:03:50
1	Si 251.611†	85828.2	86406.0	2633.1 ug/L	2633.1 ppb	00:03:30
1	Sn 189.927†	2789.4	2820.2	512.41 ug/L	512.41 ppb	00:03:50
1	Ti 334.940†	334114.6	338949.7	513.93 ug/L	513.93 ppb	00:03:25
1	Tl 190.801†	1542.9	1605.6	523.04 ug/L	523.04 ppb	00:03:50
1	U 409.014†	17296.6	20288.2	516.18 ug/L	516.18 ppb	00:03:30
1	V 292.402†	77939.7	80297.1	529.36 ug/L	529.36 ppb	00:03:30
1	Zn 213.857†	57657.2	57395.7	519.37 ug/L	519.37 ppb	00:03:30
1	SiO2†	83424.5	83980.7	5463.2 ug/L	5463.2 ppb	00:04:58
2	Sc Radial	5422.9	5422.9	103 %		00:02:32
2	Y RADIAL	5706.9	5706.9	103.3 %		00:02:32
2	Al 396.153Radial†	6212.5	6149.6	4942.7 ug/L	4942.7 ppb	00:02:32
2	Ca 317.933Radial†	3161.1	3054.0	5083.8 ug/L	5083.8 ppb	00:02:52
2	Fe 238.204 Radial†	566.5	540.9	5202.3 ug/L	5202.3 ppb	00:02:52
2	K 766.490 Radial†	32033.1	28496.0	5139.2 ug/L	5139.2 ppb	00:02:32
2	Mg 279.077 IEC†	143.5	138.2	5276.5 ug/L	5276.5 ppb	00:02:52
2	Na 589.592 Radial†	33568.2	33237.9	10122 ug/L	10122 ppb	00:02:32
2	Sr 421.552†	84919.9	82531.2	508.30 ug/L	508.30 ppb	00:02:32
2	Sc 361.383	977515.9	977515.9	98.541 %		00:03:56
2	Y 371.029	839541.2	839541.2	97.626 %		00:03:56
2	Ag 328.068†	120081.3	121484.3	518.83 ug/L	518.83 ppb	00:04:01
2	As 188.979†	1195.5	1249.7	518.16 ug/L	518.16 ppb	00:04:21
2	B 249.677†	21741.8	22404.7	512.09 ug/L	512.09 ppb	00:04:01
2	Ba 233.527†	62806.1	63752.2	518.35 ug/L	518.35 ppb	00:04:01
2	Be 313.107†	1396124.7	1421593.4	519.86 ug/L	519.86 ppb	00:03:56
2	Cd 226.502†	45287.6	46141.5	518.05 ug/L	518.05 ppb	00:04:01
2	Co 228.616†	24090.0	24515.7	518.23 ug/L	518.23 ppb	00:04:01
2	Cr 267.716†	48295.9	48941.6	518.47 ug/L	518.47 ppb	00:04:01
2	Cu 324.752†	187963.7	181776.0	513.20 ug/L	513.20 ppb	00:04:01
2	Mn 257.610†	453939.7	460089.1	517.37 ug/L	517.37 ppb	00:03:56
2	Mo 202.031†	7388.4	7487.2	514.63 ug/L	514.63 ppb	00:04:21
2	Ni 231.604†	21219.4	21453.1	518.95 ug/L	518.95 ppb	00:04:01

2	P 214.914†	4821.0	4643.7	2466.6 ug/L	2466.6 ppb	00:04:21
2	Pb 220.353†	4194.7	4302.0	518.86 ug/L	518.86 ppb	00:04:21
2	S 181.975 Axial†	807.1	776.3	1041.7 ug/L	1041.7 ppb	00:04:21
2	Sb 206.836†	1597.0	1585.8	527.86 ug/L	527.86 ppb	00:04:21
2	Se 196.026†	900.3	937.4	532.58 ug/L	532.58 ppb	00:04:21
2	Si 251.611†	84339.6	85184.4	2595.8 ug/L	2595.8 ppb	00:04:01
2	Sn 189.927†	2775.2	2815.2	511.52 ug/L	511.52 ppb	00:04:21
2	Ti 334.940†	332895.0	338837.4	513.77 ug/L	513.77 ppb	00:03:56
2	Tl 190.801†	1535.6	1603.4	522.36 ug/L	522.36 ppb	00:04:21
2	U 409.014†	17213.7	20262.3	515.52 ug/L	515.52 ppb	00:04:01
2	V 292.402†	76618.0	79218.4	522.32 ug/L	522.32 ppb	00:04:01
2	Zn 213.857†	56800.7	56720.7	513.26 ug/L	513.26 ppb	00:04:01
2	SiO2†	83535.7	84374.5	5488.9 ug/L	5488.9 ppb	00:05:03
3	Sc Radial	5505.5	5505.5	104 %		00:02:57
3	Y RADIAL	5751.0	5751.0	104.1 %		00:02:57
3	Al 396.153Radial†	6216.1	6062.3	4872.6 ug/L	4872.6 ppb	00:02:57
3	Ca 317.933Radial†	3201.9	3046.9	5072.1 ug/L	5072.1 ppb	00:03:17
3	Fe 238.204 Radial†	580.1	545.8	5248.5 ug/L	5248.5 ppb	00:03:17
3	K 766.490 Radial†	32160.1	28150.4	5076.9 ug/L	5076.9 ppb	00:02:57
3	Mg 279.077 IEC†	144.5	137.1	5233.6 ug/L	5233.6 ppb	00:03:17
3	Na 589.592 Radial†	33648.6	32825.3	9996.8 ug/L	9996.8 ppb	00:02:57
3	Sr 421.552†	85527.2	81874.3	504.25 ug/L	504.25 ppb	00:02:57
3	Sc 361.383	992715.2	992715.2	100.07 %		00:04:27
3	Y 371.029	853180.8	853180.8	99.212 %		00:04:27
3	Ag 328.068†	121897.1	121433.0	518.62 ug/L	518.62 ppb	00:04:32
3	As 188.979†	1188.1	1223.7	507.49 ug/L	507.49 ppb	00:04:53
3	B 249.677†	22169.6	22494.4	514.15 ug/L	514.15 ppb	00:04:32
3	Ba 233.527†	63656.4	63626.0	517.33 ug/L	517.33 ppb	00:04:32
3	Be 313.107†	1416535.5	1420297.0	519.39 ug/L	519.39 ppb	00:04:27
3	Cd 226.502†	45710.8	45860.7	514.89 ug/L	514.89 ppb	00:04:32
3	Co 228.616†	24314.6	24365.8	515.04 ug/L	515.04 ppb	00:04:32
3	Cr 267.716†	48804.9	48699.8	515.92 ug/L	515.92 ppb	00:04:32
3	Cu 324.752†	191854.1	182743.1	515.93 ug/L	515.93 ppb	00:04:32
3	Mn 257.610†	460185.0	459276.7	516.47 ug/L	516.47 ppb	00:04:27
3	Mo 202.031†	7391.4	7375.4	506.96 ug/L	506.96 ppb	00:04:53
3	Ni 231.604†	21494.9	21398.7	517.64 ug/L	517.64 ppb	00:04:32
3	P 214.914†	4789.3	4537.1	2407.0 ug/L	2407.0 ppb	00:04:53
3	Pb 220.353†	4162.3	4204.3	507.08 ug/L	507.08 ppb	00:04:53
3	S 181.975 Axial†	795.7	752.4	1009.5 ug/L	1009.5 ppb	00:04:53
3	Sb 206.836†	1591.2	1555.2	517.71 ug/L	517.71 ppb	00:04:53
3	Se 196.026†	905.2	928.2	527.69 ug/L	527.69 ppb	00:04:53
3	Si 251.611†	85657.5	85190.9	2596.1 ug/L	2596.1 ppb	00:04:32
3	Sn 189.927†	2758.2	2755.1	500.61 ug/L	500.61 ppb	00:04:53
3	Ti 334.940†	338152.5	338918.6	513.90 ug/L	513.90 ppb	00:04:27
3	Tl 190.801†	1528.2	1572.1	512.26 ug/L	512.26 ppb	00:04:53
3	U 409.014†	17403.4	20184.4	513.54 ug/L	513.54 ppb	00:04:32
3	V 292.402†	77781.3	79190.4	522.02 ug/L	522.02 ppb	00:04:32
3	Zn 213.857†	57491.7	56528.7	511.50 ug/L	511.50 ppb	00:04:32
3	SiO2†	85966.8	85506.0	5562.9 ug/L	5562.9 ppb	00:05:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	983667.4	99.161 %	0.8068			0.81%
Sc Radial	5477.0	104 %	0.9			0.85%
Y 371.029	845291.8	98.294 %	0.8218			0.84%
Y RADIAL	5735.5	103.8 %	0.45			0.43%
Ag 328.068†	121965.4	520.88 ug/L	3.730	520.88 ppb	3.730	0.72%
QC value within limits for Ag 328.068 Recovery = 104.18%						
Al 396.153Radial†	6129.9	4926.9 ug/L	48.38	4926.9 ppb	48.38	0.98%
QC value within limits for Al 396.153Radial Recovery = 98.54%						
As 188.979†	1246.9	516.98 ug/L	8.968	516.98 ppb	8.968	1.73%
QC value within limits for As 188.979 Recovery = 103.40%						
B 249.677†	22558.0	515.60 ug/L	4.427	515.60 ppb	4.427	0.86%
QC value within limits for B 249.677 Recovery = 103.12%						
Ba 233.527†	63958.1	520.03 ug/L	3.822	520.03 ppb	3.822	0.73%
QC value within limits for Ba 233.527 Recovery = 104.01%						
Be 313.107†	1420483.7	519.46 ug/L	0.375	519.46 ppb	0.375	0.07%
QC value within limits for Be 313.107 Recovery = 103.89%						
Ca 317.933Radial†	3039.6	5059.8 ug/L	31.94	5059.8 ppb	31.94	0.63%

QC value within limits for Ca 317.933 Radial Recovery = 101.20%							
Cd	226.502†	46216.4	518.89 ug/L	4.482	518.89 ppb	4.482	0.86%
QC value within limits for Cd 226.502 Recovery = 103.78%							
Co	228.616†	24558.2	519.12 ug/L	4.592	519.12 ppb	4.592	0.88%
QC value within limits for Co 228.616 Recovery = 103.82%							
Cr	267.716†	49056.8	519.70 ug/L	4.517	519.70 ppb	4.517	0.87%
QC value within limits for Cr 267.716 Recovery = 103.94%							
Cu	324.752†	183147.0	517.07 ug/L	4.548	517.07 ppb	4.548	0.88%
QC value within limits for Cu 324.752 Recovery = 103.41%							
Fe	238.204 Radial†	541.0	5203.0 ug/L	45.20	5203.0 ppb	45.20	0.87%
QC value within limits for Fe 238.204 Radial Recovery = 104.06%							
K	766.490 Radial†	28336.3	5110.4 ug/L	31.43	5110.4 ppb	31.43	0.62%
QC value within limits for K 766.490 Radial Recovery = 102.21%							
Mg	279.077 IEC†	137.7	5256.0 ug/L	21.51	5256.0 ppb	21.51	0.41%
QC value within limits for Mg 279.077 IEC Recovery = 105.12%							
Mn	257.610†	459673.8	516.91 ug/L	0.454	516.91 ppb	0.454	0.09%
QC value within limits for Mn 257.610 Recovery = 103.38%							
Mo	202.031†	7455.7	512.47 ug/L	4.812	512.47 ppb	4.812	0.94%
QC value within limits for Mo 202.031 Recovery = 102.49%							
Na	589.592 Radial†	33096.7	10079 ug/L	71.6	10079 ppb	71.6	0.71%
QC value within limits for Na 589.592 Radial Recovery = 100.79%							
Ni	231.604†	21524.7	520.68 ug/L	4.191	520.68 ppb	4.191	0.80%
QC value within limits for Ni 231.604 Recovery = 104.14%							
P	214.914†	4609.0	2446.6 ug/L	34.31	2446.6 ppb	34.31	1.40%
QC value within limits for P 214.914 Recovery = 97.86%							
Pb	220.353†	4270.7	515.10 ug/L	6.943	515.10 ppb	6.943	1.35%
QC value within limits for Pb 220.353 Recovery = 103.02%							
S	181.975 Axial†	766.4	1028.3 ug/L	16.72	1028.3 ppb	16.72	1.63%
QC value within limits for S 181.975 Axial Recovery = 102.83%							
Sb	206.836†	1579.4	525.75 ug/L	7.213	525.75 ppb	7.213	1.37%
QC value within limits for Sb 206.836 Recovery = 105.15%							
Se	196.026†	934.7	531.12 ug/L	2.981	531.12 ppb	2.981	0.56%
QC value within limits for Se 196.026 Recovery = 106.22%							
Si	251.611†	85593.8	2608.4 ug/L	21.45	2608.4 ppb	21.45	0.82%
QC value within limits for Si 251.611 Recovery = 104.33%							
Sn	189.927†	2796.8	508.18 ug/L	6.571	508.18 ppb	6.571	1.29%
QC value within limits for Sn 189.927 Recovery = 101.64%							
Sr	421.552†	82342.8	507.14 ug/L	2.515	507.14 ppb	2.515	0.50%
QC value within limits for Sr 421.552 Recovery = 101.43%							
Ti	334.940†	338901.9	513.87 ug/L	0.085	513.87 ppb	0.085	0.02%
QC value within limits for Ti 334.940 Recovery = 102.77%							
Tl	190.801†	1593.7	519.22 ug/L	6.041	519.22 ppb	6.041	1.16%
QC value within limits for Tl 190.801 Recovery = 103.84%							
U	409.014†	20245.0	515.08 ug/L	1.375	515.08 ppb	1.375	0.27%
QC value within limits for U 409.014 Recovery = 103.02%							
V	292.402†	79568.6	524.57 ug/L	4.155	524.57 ppb	4.155	0.79%
QC value within limits for V 292.402 Recovery = 104.91%							
Zn	213.857†	56881.7	514.71 ug/L	4.129	514.71 ppb	4.129	0.80%
QC value within limits for Zn 213.857 Recovery = 102.94%							
SiO2†		84620.4	5505.0 ug/L	51.77	5505.0 ppb	51.77	0.94%
QC value within limits for SiO2 Recovery = 102.95%							
All analyte(s) passed QC.							

Sequence No.: 58

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/30/2010 00:07:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5585.2	5585.2	106 %		00:09:10
1	Y RADIAL	5858.6	5858.6	106.1 %		00:09:10
1	Al 396.153Radial†	-118.2	-4.7	-3.8221 ug/L	-3.8221 ppb	00:09:30
1	Ca 317.933Radial†	20.4	-1.5	-2.4442 ug/L	-2.4442 ppb	00:09:30
1	Fe 238.204 Radial†	8.8	-1.8	-17.097 ug/L	-17.097 ppb	00:09:30
1	K 766.490 Radial†	2660.8	-148.4	-26.782 ug/L	-26.782 ppb	00:09:10
1	Mg 279.077 IEC†	2.5	1.0	38.287 ug/L	38.287 ppb	00:09:30
1	Na 589.592 Radial†	-719.1	-91.4	-27.846 ug/L	-27.846 ppb	00:09:10
1	Sr 421.552†	59.3	-10.7	-0.0658 ug/L	-0.0658 ppb	00:09:10
1	Sc 361.383	908838.2	908838.2	91.618 %		00:10:27
1	Y 371.029	834352.4	834352.4	97.022 %		00:10:27
1	Ag 328.068†	370.9	30.4	0.1185 ug/L	0.1185 ppb	00:10:27
1	As 188.979†	-33.7	-0.3	-0.1344 ug/L	-0.1344 ppb	00:10:47
1	B 249.677†	-121.5	208.5	4.7898 ug/L	4.7898 ppb	00:10:47
1	Ba 233.527†	-19.1	-4.5	-0.0391 ug/L	-0.0391 ppb	00:10:47
1	Be 313.107†	-4569.0	-184.6	-0.0673 ug/L	-0.0673 ppb	00:10:27
1	Cd 226.502†	-173.5	-5.8	-0.0628 ug/L	-0.0628 ppb	00:10:47
1	Co 228.616†	-63.9	-0.7	-0.0157 ug/L	-0.0157 ppb	00:10:47
1	Cr 267.716†	90.4	29.3	0.3084 ug/L	0.3084 ppb	00:10:47
1	Cu 324.752†	8834.5	672.6	1.8977 ug/L	1.8977 ppb	00:10:27
1	Mn 257.610†	614.2	100.3	0.1095 ug/L	0.1095 ppb	00:10:47
1	Mo 202.031†	8.8	-1.0	-0.0704 ug/L	-0.0704 ppb	00:10:47
1	Ni 231.604†	87.5	15.0	0.3637 ug/L	0.3637 ppb	00:10:47
1	P 214.914†	245.2	18.9	10.104 ug/L	10.104 ppb	00:10:47
1	Pb 220.353†	-42.8	-1.6	-0.1941 ug/L	-0.1941 ppb	00:10:47
1	S 181.975 Axial†	46.5	8.0	10.723 ug/L	10.723 ppb	00:10:47
1	Sb 206.836†	37.7	6.3	2.0328 ug/L	2.0328 ppb	00:10:47
1	Se 196.026†	-6.7	16.5	8.9560 ug/L	8.9560 ppb	00:10:47
1	Si 251.611†	658.1	314.6	9.6125 ug/L	9.6125 ppb	00:10:47
1	Sn 189.927†	8.9	8.6	1.5619 ug/L	1.5619 ppb	00:10:47
1	Ti 334.940†	-923.0	7.2	0.0069 ug/L	0.0069 ppb	00:10:27
1	Tl 190.801†	-50.8	-10.4	-3.3548 ug/L	-3.3548 ppb	00:10:47
1	U 409.014†	-2525.9	36.8	0.9410 ug/L	0.9410 ppb	00:10:27
1	V 292.402†	-1486.0	-155.7	-1.0094 ug/L	-1.0094 ppb	00:10:27
1	Zn 213.857†	1033.2	206.9	1.8856 ug/L	1.8856 ppb	00:10:47
1	SiO2†	652.5	314.5	20.511 ug/L	20.511 ppb	00:11:43
2	Sc Radial	5547.5	5547.5	105 %		00:09:35
2	Y RADIAL	5813.7	5813.7	105.3 %		00:09:35
2	Al 396.153Radial†	-123.3	-10.3	-8.3965 ug/L	-8.3965 ppb	00:09:55
2	Ca 317.933Radial†	21.1	-0.7	-1.0895 ug/L	-1.0895 ppb	00:09:55
2	Fe 238.204 Radial†	10.1	-0.5	-4.3324 ug/L	-4.3324 ppb	00:09:55
2	K 766.490 Radial†	2733.8	-61.8	-11.149 ug/L	-11.149 ppb	00:09:35
2	Mg 279.077 IEC†	1.8	0.4	13.915 ug/L	13.915 ppb	00:09:55
2	Na 589.592 Radial†	-787.2	-160.9	-48.992 ug/L	-48.992 ppb	00:09:35
2	Sr 421.552†	50.5	-18.7	-0.1153 ug/L	-0.1153 ppb	00:09:35
2	Sc 361.383	909751.0	909751.0	91.710 %		00:10:52
2	Y 371.029	837459.5	837459.5	97.384 %		00:10:52
2	Ag 328.068†	439.9	105.1	0.4429 ug/L	0.4429 ppb	00:10:52
2	As 188.979†	-38.4	-5.4	-2.2097 ug/L	-2.2097 ppb	00:11:12
2	B 249.677†	-121.3	208.8	4.7966 ug/L	4.7966 ppb	00:11:12
2	Ba 233.527†	-14.7	0.3	0.0008 ug/L	0.0008 ppb	00:11:12
2	Be 313.107†	-4560.3	-170.1	-0.0624 ug/L	-0.0624 ppb	00:10:52
2	Cd 226.502†	-174.5	-6.7	-0.0743 ug/L	-0.0743 ppb	00:11:12
2	Co 228.616†	-76.3	-14.2	-0.2971 ug/L	-0.2971 ppb	00:11:12
2	Cr 267.716†	69.9	7.0	0.0730 ug/L	0.0730 ppb	00:11:12
2	Cu 324.752†	8763.0	585.0	1.6524 ug/L	1.6524 ppb	00:10:52
2	Mn 257.610†	626.3	112.8	0.1258 ug/L	0.1258 ppb	00:11:12
2	Mo 202.031†	20.2	11.4	0.7837 ug/L	0.7837 ppb	00:11:12
2	Ni 231.604†	101.1	29.8	0.7209 ug/L	0.7209 ppb	00:11:12

2	P 214.914†	242.2	15.4	8.2110 ug/L	8.2110 ppb	00:11:12
2	Pb 220.353†	-34.1	8.0	0.9603 ug/L	0.9603 ppb	00:11:12
2	S 181.975 Axial†	36.2	-3.3	-4.4452 ug/L	-4.4452 ppb	00:11:12
2	Sb 206.836†	45.2	14.4	4.6647 ug/L	4.6647 ppb	00:11:12
2	Se 196.026†	-16.1	6.1	3.3355 ug/L	3.3355 ppb	00:11:12
2	Si 251.611†	639.2	293.3	8.9502 ug/L	8.9502 ppb	00:11:12
2	Sn 189.927†	10.3	10.1	1.8285 ug/L	1.8285 ppb	00:11:12
2	Ti 334.940†	-1021.6	-99.3	-0.1512 ug/L	-0.1512 ppb	00:10:52
2	Tl 190.801†	-46.6	-5.7	-1.8541 ug/L	-1.8541 ppb	00:11:12
2	U 409.014†	-2623.9	-67.3	-1.7183 ug/L	-1.7183 ppb	00:10:52
2	V 292.402†	-1458.3	-123.9	-0.7974 ug/L	-0.7974 ppb	00:10:52
2	Zn 213.857†	1029.1	201.3	1.8309 ug/L	1.8309 ppb	00:11:12
2	SiO2†	665.1	327.5	21.338 ug/L	21.338 ppb	00:11:48
3	Sc Radial	5447.2	5447.2	103 %		00:10:00
3	Y RADIAL	5733.7	5733.7	103.8 %		00:10:00
3	Al 396.153Radial†	-126.0	-15.1	-12.207 ug/L	-12.207 ppb	00:10:20
3	Ca 317.933Radial†	21.6	0.2	0.3877 ug/L	0.3877 ppb	00:10:20
3	Fe 238.204 Radial†	9.0	-1.4	-13.386 ug/L	-13.386 ppb	00:10:20
3	K 766.490 Radial†	2762.8	14.1	2.5685 ug/L	2.5685 ppb	00:10:00
3	Mg 279.077 IEC†	-0.2	-1.6	-60.776 ug/L	-60.776 ppb	00:10:20
3	Na 589.592 Radial†	-852.8	-238.1	-72.518 ug/L	-72.518 ppb	00:10:00
3	Sr 421.552†	78.7	9.5	0.0586 ug/L	0.0586 ppb	00:10:00
3	Sc 361.383	909185.7	909185.7	91.653 %		00:11:17
3	Y 371.029	837709.8	837709.8	97.413 %		00:11:17
3	Ag 328.068†	349.1	6.4	0.0166 ug/L	0.0166 ppb	00:11:17
3	As 188.979†	-36.2	-3.0	-1.2512 ug/L	-1.2512 ppb	00:11:38
3	B 249.677†	-99.9	232.1	5.3328 ug/L	5.3328 ppb	00:11:38
3	Ba 233.527†	-9.9	5.6	0.0411 ug/L	0.0411 ppb	00:11:38
3	Be 313.107†	-4479.4	-84.9	-0.0313 ug/L	-0.0313 ppb	00:11:17
3	Cd 226.502†	-171.3	-3.3	-0.0358 ug/L	-0.0358 ppb	00:11:38
3	Co 228.616†	-83.4	-21.9	-0.4629 ug/L	-0.4629 ppb	00:11:38
3	Cr 267.716†	87.3	26.0	0.2726 ug/L	0.2726 ppb	00:11:38
3	Cu 324.752†	8784.5	614.4	1.7348 ug/L	1.7348 ppb	00:11:17
3	Mn 257.610†	616.1	102.1	0.1159 ug/L	0.1159 ppb	00:11:38
3	Mo 202.031†	12.0	2.5	0.1683 ug/L	0.1683 ppb	00:11:38
3	Ni 231.604†	109.6	39.1	0.9464 ug/L	0.9464 ppb	00:11:38
3	P 214.914†	239.7	12.8	6.7563 ug/L	6.7563 ppb	00:11:38
3	Pb 220.353†	-36.2	5.6	0.6760 ug/L	0.6760 ppb	00:11:38
3	S 181.975 Axial†	43.0	4.2	5.6683 ug/L	5.6683 ppb	00:11:38
3	Sb 206.836†	37.9	6.5	2.0911 ug/L	2.0911 ppb	00:11:38
3	Se 196.026†	-22.4	-0.7	-0.4233 ug/L	-0.4233 ppb	00:11:38
3	Si 251.611†	642.4	297.2	9.0775 ug/L	9.0775 ppb	00:11:38
3	Sn 189.927†	6.3	5.8	1.0533 ug/L	1.0533 ppb	00:11:38
3	Ti 334.940†	-1021.5	-99.8	-0.1459 ug/L	-0.1459 ppb	00:11:17
3	Tl 190.801†	-55.9	-15.9	-5.1567 ug/L	-5.1567 ppb	00:11:38
3	U 409.014†	-2612.5	-56.7	-1.4458 ug/L	-1.4458 ppb	00:11:17
3	V 292.402†	-1601.7	-281.3	-1.8301 ug/L	-1.8301 ppb	00:11:17
3	Zn 213.857†	1014.1	185.6	1.6873 ug/L	1.6873 ppb	00:11:38
3	SiO2†	658.7	321.0	20.933 ug/L	20.933 ppb	00:11:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	909258.3	91.660 %		0.0464			0.05%
Sc Radial	5526.6	105 %		1.4			1.29%
Y 371.029	836507.2	97.273 %		0.2175			0.22%
Y RADIAL	5802.0	105.1 %		1.15			1.09%
Ag 328.068†	47.3	0.1926 ug/L		0.22261	0.1926 ppb	0.22261	115.56%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-10.1	-8.1420 ug/L		4.19841	-8.1420 ppb	4.19841	51.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-2.9	-1.1984 ug/L		1.03863	-1.1984 ppb	1.03863	86.67%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	216.5	4.9730 ug/L		0.31155	4.9730 ppb	0.31155	6.26%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.5	0.0009 ug/L		0.04009	0.0009 ppb	0.04009	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-146.5	-0.0537 ug/L		0.01952	-0.0537 ppb	0.01952	36.36%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.6	-1.0487 ug/L		1.41639	-1.0487 ppb	1.41639	135.06%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-5.3	-0.0577 ug/L	0.01975	-0.0577 ppb	0.01975	34.26%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-12.3	-0.2586 ug/L	0.22606	-0.2586 ppb	0.22606	87.43%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	20.8	0.2180 ug/L	0.12683	0.2180 ppb	0.12683	58.17%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	624.0	1.7616 ug/L	0.12483	1.7616 ppb	0.12483	7.09%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.2	-11.605 ug/L	6.5661	-11.605 ppb	6.5661	56.58%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-65.4	-11.788 ug/L	14.6859	-11.788 ppb	14.6859	124.59%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.1	-2.8578 ug/L	51.61774	-2.8578 ppb	51.61774	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	105.1	0.1171 ug/L	0.00823	0.1171 ppb	0.00823	7.03%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.3	0.2939 ug/L	0.44065	0.2939 ppb	0.44065	149.94%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-163.5	-49.785 ug/L	22.3466	-49.785 ppb	22.3466	44.89%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	28.0	0.6770 ug/L	0.29380	0.6770 ppb	0.29380	43.40%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	15.7	8.3571 ug/L	1.67864	8.3571 ppb	1.67864	20.09%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	4.0	0.4807 ug/L	0.60147	0.4807 ppb	0.60147	125.12%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.0	3.9822 ug/L	7.72363	3.9822 ppb	7.72363	193.95%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	9.0	2.9295 ug/L	1.50298	2.9295 ppb	1.50298	51.30%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.3	3.9561 ug/L	4.72036	3.9561 ppb	4.72036	119.32%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	301.7	9.2134 ug/L	0.35142	9.2134 ppb	0.35142	3.81%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	8.2	1.4812 ug/L	0.39385	1.4812 ppb	0.39385	26.59%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-6.6	-0.0408 ug/L	0.08961	-0.0408 ppb	0.08961	219.44%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-64.0	-0.0967 ug/L	0.08980	-0.0967 ppb	0.08980	92.86%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-10.7	-3.4552 ug/L	1.65357	-3.4552 ppb	1.65357	47.86%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-29.1	-0.7410 ug/L	1.46303	-0.7410 ppb	1.46303	197.43%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-187.0	-1.2123 ug/L	0.54544	-1.2123 ppb	0.54544	44.99%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	197.9	1.8013 ug/L	0.10241	1.8013 ppb	0.10241	5.69%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	321.0	20.927 ug/L	0.4134	20.927 ppb	0.4134	1.98%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 59

Sample ID: 244628002|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 1/30/2010 00:14:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628002|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5603.6	5603.6	106 %		00:15:56
1	Y RADIAL	6720.7	6720.7	121.7 %		00:15:56
1	Al 396.153Radial†	25934.2	24518.5	19804 ug/L	19804 ppb	00:15:56
1	Ca 317.933Radial†	10865.9	10207.3	16991 ug/L	16991 ppb	00:15:56
1	Fe 238.204 Radial†	6483.0	6092.3	58418 ug/L	58418 ppb	00:15:56
1	K 766.490 Radial†	25855.3	21676.1	3907.5 ug/L	3907.5 ppb	00:15:56
1	Mg 279.077 IEC†	116.1	107.9	4059.1 ug/L	4059.1 ppb	00:16:16
1	Na 589.592 Radial†	627.3	1178.1	358.79 ug/L	358.79 ppb	00:15:56
1	Sr 421.552†	17565.0	16467.0	101.30 ug/L	101.30 ppb	00:15:56
1	Sc 361.383	991003.4	991003.4	99.901 %		00:17:14
1	Y 371.029	979952.8	979952.8	113.95 %		00:17:14
1	Ag 328.068†	-3514.0	-3892.0	2.5290 ug/L	2.5290 ppb	00:17:19
1	As 188.979†	-44.8	-8.4	25.007 ug/L	25.007 ppb	00:17:39
1	B 249.677†	721.2	1063.0	14.881 ug/L	14.881 ppb	00:17:19
1	Ba 233.527†	42169.7	42227.9	344.40 ug/L	344.40 ppb	00:17:19
1	Be 313.107†	-6762.2	-1966.4	3.1765 ug/L	3.1765 ppb	00:17:19
1	Cd 226.502†	450.1	634.1	1.1848 ug/L	1.1848 ppb	00:17:39
1	Co 228.616†	581.5	651.1	9.4373 ug/L	9.4373 ppb	00:17:39
1	Cr 267.716†	29636.3	29596.4	314.43 ug/L	314.43 ppb	00:17:19
1	Cu 324.752†	20383.1	11433.2	35.450 ug/L	35.450 ppb	00:17:19
1	Mn 257.610†	1927878.0	1929218.8	2173.8 ug/L	2173.8 ppb	00:17:14
1	Mo 202.031†	552.9	542.9	42.020 ug/L	42.020 ppb	00:17:39
1	Ni 231.604†	8259.8	8187.6	198.17 ug/L	198.17 ppb	00:17:39
1	P 214.914†	1340.5	1093.2	555.49 ug/L	555.49 ppb	00:17:39
1	Pb 220.353†	506.5	552.1	65.428 ug/L	65.428 ppb	00:17:39
1	S 181.975 Axial†	390.1	347.7	463.26 ug/L	463.26 ppb	00:17:39
1	Sb 206.836†	78.1	43.3	9.9518 ug/L	9.9518 ppb	00:17:39
1	Se 196.026†	-290.3	-266.9	48.335 ug/L	48.335 ppb	00:17:39
1	Si 251.611†	632555.3	632778.7	19329 ug/L	19329 ppb	00:17:14
1	Sn 189.927†	-110.8	-112.0	-16.749 ug/L	-16.749 ppb	00:17:39
1	Ti 334.940†	1128702.3	1130835.8	1717.1 ug/L	1717.1 ppb	00:17:14
1	Tl 190.801†	-126.6	-81.7	-2.0119 ug/L	-2.0119 ppb	00:17:39
1	U 409.014†	-8385.4	-5599.9	-150.32 ug/L	-150.32 ppb	00:17:14
1	V 292.402†	7705.2	9179.0	49.618 ug/L	49.618 ppb	00:17:19
1	Zn 213.857†	35243.7	34357.9	306.65 ug/L	306.65 ppb	00:17:19
1	SiO2†	634154.8	634385.7	41374 ug/L	41374 ppb	00:18:47
2	Sc Radial	5587.3	5587.3	106 %		00:16:21
2	Y RADIAL	6775.3	6775.3	122.7 %		00:16:21
2	Al 396.153Radial†	26027.5	24677.9	19933 ug/L	19933 ppb	00:16:21
2	Ca 317.933Radial†	10865.5	10236.7	17041 ug/L	17041 ppb	00:16:21
2	Fe 238.204 Radial†	6495.4	6121.9	58701 ug/L	58701 ppb	00:16:21
2	K 766.490 Radial†	25866.6	21758.0	3922.2 ug/L	3922.2 ppb	00:16:21
2	Mg 279.077 IEC†	120.9	112.8	4245.7 ug/L	4245.7 ppb	00:16:41
2	Na 589.592 Radial†	582.9	1137.9	346.55 ug/L	346.55 ppb	00:16:21
2	Sr 421.552†	17674.7	16618.9	102.23 ug/L	102.23 ppb	00:16:21
2	Sc 361.383	993576.5	993576.5	100.16 %		00:17:45
2	Y 371.029	983203.7	983203.7	114.33 %		00:17:45
2	Ag 328.068†	-3399.2	-3768.3	3.1400 ug/L	3.1400 ppb	00:17:50
2	As 188.979†	-52.5	-15.9	21.980 ug/L	21.980 ppb	00:18:10
2	B 249.677†	668.5	1008.5	13.584 ug/L	13.584 ppb	00:17:50
2	Ba 233.527†	41976.7	41925.9	341.95 ug/L	341.95 ppb	00:17:50
2	Be 313.107†	-6901.9	-2088.4	3.1264 ug/L	3.1264 ppb	00:17:50
2	Cd 226.502†	459.1	641.9	1.2423 ug/L	1.2423 ppb	00:18:10
2	Co 228.616†	581.0	649.1	9.3944 ug/L	9.3944 ppb	00:18:10
2	Cr 267.716†	29528.9	29412.4	312.49 ug/L	312.49 ppb	00:17:50
2	Cu 324.752†	20269.7	11267.1	34.996 ug/L	34.996 ppb	00:17:50
2	Mn 257.610†	1926927.8	1923272.5	2167.1 ug/L	2167.1 ppb	00:17:45
2	Mo 202.031†	548.4	537.0	41.635 ug/L	41.635 ppb	00:18:10
2	Ni 231.604†	8201.5	8107.9	196.24 ug/L	196.24 ppb	00:18:10

2	P 214.914†	1347.8	1096.9	557.48 ug/L	557.48 ppb	00:18:10
2	Pb 220.353†	498.8	543.1	64.344 ug/L	64.344 ppb	00:18:10
2	S 181.975 Axial†	394.4	351.0	467.68 ug/L	467.68 ppb	00:18:10
2	Sb 206.836†	74.1	39.1	8.6011 ug/L	8.6011 ppb	00:18:10
2	Se 196.026†	-292.3	-268.1	48.604 ug/L	48.604 ppb	00:18:10
2	Si 251.611†	633182.7	631765.3	19298 ug/L	19298 ppb	00:17:45
2	Sn 189.927†	-115.6	-116.5	-17.553 ug/L	-17.553 ppb	00:18:10
2	Ti 334.940†	1130000.9	1129206.3	1714.6 ug/L	1714.6 ppb	00:17:45
2	Tl 190.801†	-131.8	-86.6	-3.6421 ug/L	-3.6421 ppb	00:18:10
2	U 409.014†	-8369.6	-5562.4	-149.39 ug/L	-149.39 ppb	00:17:45
2	V 292.402†	7566.6	9020.7	48.549 ug/L	48.549 ppb	00:17:50
2	Zn 213.857†	35041.1	34064.2	303.96 ug/L	303.96 ppb	00:17:50
2	SiO2†	639461.1	638039.6	41612 ug/L	41612 ppb	00:18:52
3	Sc Radial	5608.9	5608.9	106 %		00:16:46
3	Y RADIAL	6787.3	6787.3	122.9 %		00:16:46
3	Al 396.153Radial†	26100.5	24651.8	19912 ug/L	19912 ppb	00:16:46
3	Ca 317.933Radial†	10916.4	10245.1	17054 ug/L	17054 ppb	00:16:46
3	Fe 238.204 Radial†	6516.8	6118.3	58667 ug/L	58667 ppb	00:16:46
3	K 766.490 Radial†	26001.2	21790.3	3928.1 ug/L	3928.1 ppb	00:16:46
3	Mg 279.077 IEC†	114.1	106.0	3984.5 ug/L	3984.5 ppb	00:17:06
3	Na 589.592 Radial†	561.8	1116.0	339.86 ug/L	339.86 ppb	00:16:46
3	Sr 421.552†	17617.7	16500.9	101.51 ug/L	101.51 ppb	00:16:46
3	Sc 361.383	998502.6	998502.6	100.66 %		00:18:16
3	Y 371.029	988587.8	988587.8	114.96 %		00:18:16
3	Ag 328.068†	-3382.3	-3734.7	3.2738 ug/L	3.2738 ppb	00:18:21
3	As 188.979†	-51.9	-15.0	22.290 ug/L	22.290 ppb	00:18:41
3	B 249.677†	623.0	960.1	12.477 ug/L	12.477 ppb	00:18:21
3	Ba 233.527†	42127.5	41869.0	341.49 ug/L	341.49 ppb	00:18:21
3	Be 313.107†	-7013.4	-2165.2	3.0932 ug/L	3.0932 ppb	00:18:21
3	Cd 226.502†	429.2	610.0	0.8864 ug/L	0.8864 ppb	00:18:41
3	Co 228.616†	580.3	645.6	9.3243 ug/L	9.3243 ppb	00:18:41
3	Cr 267.716†	29636.8	29374.1	312.09 ug/L	312.09 ppb	00:18:21
3	Cu 324.752†	20333.6	11230.8	34.892 ug/L	34.892 ppb	00:18:21
3	Mn 257.610†	1933218.4	1920030.7	2163.5 ug/L	2163.5 ppb	00:18:16
3	Mo 202.031†	540.9	526.8	40.936 ug/L	40.936 ppb	00:18:41
3	Ni 231.604†	8207.7	8073.6	195.41 ug/L	195.41 ppb	00:18:41
3	P 214.914†	1352.9	1095.4	556.68 ug/L	556.68 ppb	00:18:41
3	Pb 220.353†	503.1	544.9	64.558 ug/L	64.558 ppb	00:18:41
3	S 181.975 Axial†	387.5	342.2	455.85 ug/L	455.85 ppb	00:18:41
3	Sb 206.836†	72.5	37.1	7.9452 ug/L	7.9452 ppb	00:18:41
3	Se 196.026†	-288.1	-262.5	51.550 ug/L	51.550 ppb	00:18:41
3	Si 251.611†	634746.6	630200.1	19250 ug/L	19250 ppb	00:18:16
3	Sn 189.927†	-121.1	-121.4	-18.441 ug/L	-18.441 ppb	00:18:41
3	Ti 334.940†	1134106.1	1127718.8	1712.4 ug/L	1712.4 ppb	00:18:16
3	Tl 190.801†	-116.6	-70.8	1.4263 ug/L	1.4263 ppb	00:18:41
3	U 409.014†	-8435.2	-5586.4	-150.00 ug/L	-150.00 ppb	00:18:16
3	V 292.402†	7675.2	9091.3	49.001 ug/L	49.001 ppb	00:18:21
3	Zn 213.857†	35208.0	34057.4	303.91 ug/L	303.91 ppb	00:18:21
3	SiO2†	638832.4	634265.3	41366 ug/L	41366 ppb	00:18:58

Mean Data: 244628002|941795|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	994360.9	100.24	%	0.384				0.38%
Sc Radial	5600.0	106	%	0.2				0.20%
Y 371.029	983914.8	114.41	%	0.507				0.44%
Y RADIAL	6761.1	122.4	%	0.64				0.53%
Ag 328.068†	-3798.3	2.9809	ug/L	0.39706	2.9809	ppb	0.39706	13.32%
Al 396.153Radial†	24616.1	19883	ug/L	69.1	19883	ppb	69.1	0.35%
As 188.979†	-13.1	23.092	ug/L	1.6656	23.092	ppb	1.6656	7.21%
B 249.677†	1010.5	13.647	ug/L	1.2033	13.647	ppb	1.2033	8.82%
Ba 233.527†	42007.6	342.61	ug/L	1.561	342.61	ppb	1.561	0.46%
Be 313.107†	-2073.3	3.1320	ug/L	0.04191	3.1320	ppb	0.04191	1.34%
Ca 317.933Radial†	10229.7	17029	ug/L	33.1	17029	ppb	33.1	0.19%
Cd 226.502†	628.7	1.1045	ug/L	0.19104	1.1045	ppb	0.19104	17.30%
Co 228.616†	648.6	9.3853	ug/L	0.05703	9.3853	ppb	0.05703	0.61%
Cr 267.716†	29461.0	313.00	ug/L	1.255	313.00	ppb	1.255	0.40%
Cu 324.752†	11310.4	35.113	ug/L	0.2970	35.113	ppb	0.2970	0.85%
Fe 238.204 Radial†	6110.8	58596	ug/L	154.8	58596	ppb	154.8	0.26%
K 766.490 Radial†	21741.5	3919.3	ug/L	10.62	3919.3	ppb	10.62	0.27%

Mg 279.077 IEC†	108.9	4096.4 ug/L	134.56	4096.4 ppb	134.56	3.28%
Mn 257.610†	1924174.0	2168.1 ug/L	5.22	2168.1 ppb	5.22	0.24%
Mo 202.031†	535.6	41.530 ug/L	0.5495	41.530 ppb	0.5495	1.32%
Na 589.592 Radial†	1144.0	348.40 ug/L	9.598	348.40 ppb	9.598	2.75%
Ni 231.604†	8123.0	196.61 ug/L	1.415	196.61 ppb	1.415	0.72%
P 214.914†	1095.2	556.55 ug/L	0.997	556.55 ppb	0.997	0.18%
Pb 220.353†	546.7	64.777 ug/L	0.5743	64.777 ppb	0.5743	0.89%
S 181.975 Axial†	347.0	462.27 ug/L	5.977	462.27 ppb	5.977	1.29%
Sb 206.836†	39.8	8.8327 ug/L	1.02316	8.8327 ppb	1.02316	11.58%
Se 196.026†	-265.9	49.496 ug/L	1.7837	49.496 ppb	1.7837	3.60%
Si 251.611†	631581.4	19293 ug/L	39.7	19293 ppb	39.7	0.21%
Sn 189.927†	-116.6	-17.581 ug/L	0.8464	-17.581 ppb	0.8464	4.81%
Sr 421.552†	16528.9	101.68 ug/L	0.491	101.68 ppb	0.491	0.48%
Ti 334.940†	1129253.6	1714.7 ug/L	2.36	1714.7 ppb	2.36	0.14%
Tl 190.801†	-79.7	-1.4092 ug/L	2.58738	-1.4092 ppb	2.58738	183.60%
U 409.014†	-5582.9	-149.90 ug/L	0.472	-149.90 ppb	0.472	0.32%
V 292.402†	9097.0	49.056 ug/L	0.5364	49.056 ppb	0.5364	1.09%
Zn 213.857†	34159.8	304.84 ug/L	1.572	304.84 ppb	1.572	0.52%
SiO2†	635563.5	41451 ug/L	139.9	41451 ppb	139.9	0.34%

Sequence No.: 60

Sample ID: 244628003|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 1/30/2010 00:21:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628003|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5628.2	5628.2	107 %		00:23:01
1	Y RADIAL	7019.8	7019.8	127.1 %		00:23:01
1	Al 396.153Radial†	46153.6	43361.2	35027 ug/L	35027 ppb	00:23:01
1	Ca 317.933Radial†	3567.4	3322.6	5531.0 ug/L	5531.0 ppb	00:23:21
1	Fe 238.204 Radial†	9274.4	8681.8	83249 ug/L	83249 ppb	00:23:01
1	K 766.490 Radial†	33010.3	28275.4	5102.5 ug/L	5102.5 ppb	00:23:01
1	Mg 279.077 IEC†	140.3	130.1	4880.6 ug/L	4880.6 ppb	00:23:21
1	Na 589.592 Radial†	3352.5	3729.5	1135.8 ug/L	1135.8 ppb	00:23:01
1	Sr 421.552†	8657.7	8047.1	49.523 ug/L	49.523 ppb	00:23:01
1	Sc 361.383	1003828.6	1003828.6	101.19 %		00:24:19
1	Y 371.029	1029641.7	1029641.7	119.73 %		00:24:19
1	Ag 328.068†	-5211.2	-5524.2	3.9787 ug/L	3.9787 ppb	00:24:24
1	As 188.979†	-45.6	-8.5	32.220 ug/L	32.220 ppb	00:24:44
1	B 249.677†	792.8	1124.6	12.168 ug/L	12.168 ppb	00:24:24
1	Ba 233.527†	38890.5	38448.1	314.56 ug/L	314.56 ppb	00:24:24
1	Be 313.107†	-6289.9	-1413.2	3.7455 ug/L	3.7455 ppb	00:24:24
1	Cd 226.502†	579.4	756.1	0.0203 ug/L	0.0203 ppb	00:24:44
1	Co 228.616†	2157.2	2200.9	41.338 ug/L	41.338 ppb	00:24:44
1	Cr 267.716†	50387.8	49724.0	527.96 ug/L	527.96 ppb	00:24:24
1	Cu 324.752†	20338.5	11128.4	35.950 ug/L	35.950 ppb	00:24:24
1	Mn 257.610†	2305924.3	2278149.6	2568.3 ug/L	2568.3 ppb	00:24:19
1	Mo 202.031†	262.1	248.4	23.586 ug/L	23.586 ppb	00:24:44
1	Ni 231.604†	11433.8	11218.4	271.51 ug/L	271.51 ppb	00:24:24
1	P 214.914†	897.4	638.2	288.18 ug/L	288.18 ppb	00:24:44
1	Pb 220.353†	420.9	461.1	55.090 ug/L	55.090 ppb	00:24:44
1	S 181.975 Axial†	165.0	120.3	154.94 ug/L	154.94 ppb	00:24:44
1	Sb 206.836†	81.4	45.6	10.409 ug/L	10.409 ppb	00:24:44
1	Se 196.026†	-397.3	-368.8	75.497 ug/L	75.497 ppb	00:24:44
1	Si 251.611†	770087.1	760598.2	23234 ug/L	23234 ppb	00:24:19
1	Sn 189.927†	2.3	1.2	2.4535 ug/L	2.4535 ppb	00:24:44
1	Ti 334.940†	1251219.1	1237472.3	1877.2 ug/L	1877.2 ppb	00:24:19
1	Tl 190.801†	-143.5	-96.8	-3.8850 ug/L	-3.8850 ppb	00:24:44
1	U 409.014†	-11796.2	-8863.2	-236.94 ug/L	-236.94 ppb	00:24:19
1	V 292.402†	12093.1	13416.6	72.896 ug/L	72.896 ppb	00:24:24
1	Zn 213.857†	29499.2	28230.4	247.85 ug/L	247.85 ppb	00:24:24
1	SiO2†	774513.2	764978.0	49892 ug/L	49892 ppb	00:25:52
2	Sc Radial	5664.9	5664.9	107 %		00:23:26
2	Y RADIAL	7097.3	7097.3	128.5 %		00:23:26
2	Al 396.153Radial†	46384.5	43295.7	34974 ug/L	34974 ppb	00:23:26
2	Ca 317.933Radial†	3574.8	3307.8	5506.4 ug/L	5506.4 ppb	00:23:46
2	Fe 238.204 Radial†	9300.1	8649.3	82937 ug/L	82937 ppb	00:23:26
2	K 766.490 Radial†	33255.3	28302.9	5107.5 ug/L	5107.5 ppb	00:23:26
2	Mg 279.077 IEC†	139.0	128.0	4802.5 ug/L	4802.5 ppb	00:23:46
2	Na 589.592 Radial†	3215.4	3581.5	1090.7 ug/L	1090.7 ppb	00:23:26
2	Sr 421.552†	8546.5	7891.0	48.562 ug/L	48.562 ppb	00:23:26
2	Sc 361.383	1000661.3	1000661.3	100.87 %		00:24:50
2	Y 371.029	1028069.0	1028069.0	119.55 %		00:24:50
2	Ag 328.068†	-5062.9	-5393.6	4.4288 ug/L	4.4288 ppb	00:24:55
2	As 188.979†	-37.2	-0.3	35.489 ug/L	35.489 ppb	00:25:15
2	B 249.677†	724.3	1059.1	10.714 ug/L	10.714 ppb	00:24:55
2	Ba 233.527†	38372.8	38056.5	311.37 ug/L	311.37 ppb	00:24:55
2	Be 313.107†	-6425.2	-1567.0	3.6832 ug/L	3.6832 ppb	00:24:55
2	Cd 226.502†	582.6	761.1	0.1077 ug/L	0.1077 ppb	00:25:15
2	Co 228.616†	2183.8	2233.9	42.047 ug/L	42.047 ppb	00:25:15
2	Cr 267.716†	49844.9	49343.4	523.92 ug/L	523.92 ppb	00:24:55
2	Cu 324.752†	20016.5	10872.8	35.211 ug/L	35.211 ppb	00:24:55
2	Mn 257.610†	2291720.5	2271281.5	2560.6 ug/L	2560.6 ppb	00:24:50
2	Mo 202.031†	256.9	244.1	23.267 ug/L	23.267 ppb	00:25:15
2	Ni 231.604†	11307.7	11129.2	269.35 ug/L	269.35 ppb	00:24:55

2	P 214.914†	883.8	627.5	282.65 ug/L	282.65 ppb	00:25:15
2	Pb 220.353†	430.9	472.3	56.454 ug/L	56.454 ppb	00:25:15
2	S 181.975 Axial†	179.1	134.8	174.42 ug/L	174.42 ppb	00:25:15
2	Sb 206.836†	83.3	47.7	11.103 ug/L	11.103 ppb	00:25:15
2	Se 196.026†	-415.3	-388.0	63.963 ug/L	63.963 ppb	00:25:15
2	Si 251.611†	766178.3	759132.1	23189 ug/L	23189 ppb	00:24:50
2	Sn 189.927†	4.0	2.8	2.7457 ug/L	2.7457 ppb	00:25:15
2	Ti 334.940†	1245457.4	1235674.2	1874.5 ug/L	1874.5 ppb	00:24:50
2	Tl 190.801†	-150.5	-104.1	-6.3142 ug/L	-6.3142 ppb	00:25:15
2	U 409.014†	-11686.6	-8791.4	-235.06 ug/L	-235.06 ppb	00:24:50
2	V 292.402†	11967.4	13329.8	72.379 ug/L	72.379 ppb	00:24:55
2	Zn 213.857†	29188.3	28014.4	245.92 ug/L	245.92 ppb	00:24:55
2	SiO2†	774821.5	767706.3	50070 ug/L	50070 ppb	00:25:58
3	Sc Radial	5636.3	5636.3	107 %		00:23:51
3	Y RADIAL	7042.6	7042.6	127.5 %		00:23:51
3	Al 396.153Radial†	46045.5	43197.7	34895 ug/L	34895 ppb	00:23:51
3	Ca 317.933Radial†	3574.5	3324.4	5533.9 ug/L	5533.9 ppb	00:24:12
3	Fe 238.204 Radial†	9242.2	8639.1	82840 ug/L	82840 ppb	00:23:51
3	K 766.490 Radial†	33020.7	28240.5	5096.2 ug/L	5096.2 ppb	00:23:51
3	Mg 279.077 IEC†	142.3	131.8	4946.6 ug/L	4946.6 ppb	00:24:12
3	Na 589.592 Radial†	3217.0	3598.2	1095.8 ug/L	1095.8 ppb	00:23:51
3	Sr 421.552†	8520.5	7907.0	48.660 ug/L	48.660 ppb	00:23:51
3	Sc 361.383	1011793.1	1011793.1	102.00 %		00:25:21
3	Y 371.029	1038616.6	1038616.6	120.78 %		00:25:21
3	Ag 328.068†	-5062.7	-5338.1	4.6254 ug/L	4.6254 ppb	00:25:26
3	As 188.979†	-44.3	-6.9	32.772 ug/L	32.772 ppb	00:25:46
3	B 249.677†	665.7	993.8	9.2295 ug/L	9.2295 ppb	00:25:26
3	Ba 233.527†	38388.8	37653.7	308.10 ug/L	308.10 ppb	00:25:26
3	Be 313.107†	-6280.2	-1354.8	3.7646 ug/L	3.7646 ppb	00:25:26
3	Cd 226.502†	597.2	769.1	0.2070 ug/L	0.2070 ppb	00:25:46
3	Co 228.616†	2205.6	2231.5	41.996 ug/L	41.996 ppb	00:25:46
3	Cr 267.716†	49797.6	48753.4	517.68 ug/L	517.68 ppb	00:25:26
3	Cu 324.752†	19964.1	10603.2	34.443 ug/L	34.443 ppb	00:25:26
3	Mn 257.610†	2318938.7	2272971.8	2562.5 ug/L	2562.5 ppb	00:25:21
3	Mo 202.031†	264.1	248.3	23.551 ug/L	23.551 ppb	00:25:46
3	Ni 231.604†	11353.0	11050.3	267.44 ug/L	267.44 ppb	00:25:26
3	P 214.914†	920.9	654.2	297.64 ug/L	297.64 ppb	00:25:46
3	Pb 220.353†	420.3	457.2	54.642 ug/L	54.642 ppb	00:25:46
3	S 181.975 Axial†	179.6	133.3	172.50 ug/L	172.50 ppb	00:25:46
3	Sb 206.836†	92.5	55.8	13.691 ug/L	13.691 ppb	00:25:46
3	Se 196.026†	-419.2	-387.2	64.065 ug/L	64.065 ppb	00:25:46
3	Si 251.611†	775541.0	759955.0	23214 ug/L	23214 ppb	00:25:21
3	Sn 189.927†	1.0	-0.1	2.2193 ug/L	2.2193 ppb	00:25:46
3	Ti 334.940†	1260493.2	1236831.8	1876.2 ug/L	1876.2 ppb	00:25:21
3	Tl 190.801†	-151.0	-103.0	-5.9355 ug/L	-5.9355 ppb	00:25:46
3	U 409.014†	-11694.0	-8671.3	-231.97 ug/L	-231.97 ppb	00:25:21
3	V 292.402†	11931.6	13164.2	71.329 ug/L	71.329 ppb	00:25:26
3	Zn 213.857†	29176.4	27684.5	242.93 ug/L	242.93 ppb	00:25:26
3	SiO2†	778617.8	762977.5	49761 ug/L	49761 ppb	00:26:03

Mean Data: 244628003|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1005427.6	101.36 %		0.578			0.57%
Sc Radial	5643.2	107 %		0.4			0.34%
Y 371.029	1032109.1	120.02 %		0.662			0.55%
Y RADIAL	7053.2	127.7 %		0.72			0.56%
Ag 328.068†	-5418.6	4.3443 ug/L		0.33157	4.3443 ppb	0.33157	7.63%
Al 396.153Radial†	43284.9	34965 ug/L		66.5	34965 ppb	66.5	0.19%
As 188.979†	-5.3	33.494 ug/L		1.7501	33.494 ppb	1.7501	5.22%
B 249.677†	1059.1	10.704 ug/L		1.4692	10.704 ppb	1.4692	13.73%
Ba 233.527†	38052.8	311.34 ug/L		3.229	311.34 ppb	3.229	1.04%
Be 313.107†	-1445.0	3.7311 ug/L		0.04257	3.7311 ppb	0.04257	1.14%
Ca 317.933Radial†	3318.3	5523.7 ug/L		15.13	5523.7 ppb	15.13	0.27%
Cd 226.502†	762.1	0.1117 ug/L		0.09344	0.1117 ppb	0.09344	83.68%
Co 228.616†	2222.1	41.794 ug/L		0.3953	41.794 ppb	0.3953	0.95%
Cr 267.716†	49273.6	523.19 ug/L		5.181	523.19 ppb	5.181	0.99%
Cu 324.752†	10868.1	35.202 ug/L		0.7536	35.202 ppb	0.7536	2.14%
Fe 238.204 Radial†	8656.7	83009 ug/L		213.7	83009 ppb	213.7	0.26%
K 766.490 Radial†	28273.0	5102.1 ug/L		5.65	5102.1 ppb	5.65	0.11%

Mg 279.077 IEC†	130.0	4876.6 ug/L	72.14	4876.6 ppb	72.14	1.48%
Mn 257.610†	2274134.3	2563.8 ug/L	4.04	2563.8 ppb	4.04	0.16%
Mo 202.031†	246.9	23.468 ug/L	0.1750	23.468 ppb	0.1750	0.75%
Na 589.592 Radial†	3636.4	1107.5 ug/L	24.69	1107.5 ppb	24.69	2.23%
Ni 231.604†	11132.7	269.43 ug/L	2.036	269.43 ppb	2.036	0.76%
P 214.914†	640.0	289.49 ug/L	7.580	289.49 ppb	7.580	2.62%
Pb 220.353†	463.5	55.395 ug/L	0.9440	55.395 ppb	0.9440	1.70%
S 181.975 Axial†	129.4	167.29 ug/L	10.735	167.29 ppb	10.735	6.42%
Sb 206.836†	49.7	11.734 ug/L	1.7300	11.734 ppb	1.7300	14.74%
Se 196.026†	-381.4	67.841 ug/L	6.6302	67.841 ppb	6.6302	9.77%
Si 251.611†	759895.1	23213 ug/L	22.4	23213 ppb	22.4	0.10%
Sn 189.927†	1.3	2.4728 ug/L	0.26369	2.4728 ppb	0.26369	10.66%
Sr 421.552†	7948.4	48.915 ug/L	0.5288	48.915 ppb	0.5288	1.08%
Ti 334.940†	1236659.4	1876.0 ug/L	1.38	1876.0 ppb	1.38	0.07%
Tl 190.801†	-101.3	-5.3783 ug/L	1.30699	-5.3783 ppb	1.30699	24.30%
U 409.014†	-8775.3	-234.65 ug/L	2.510	-234.65 ppb	2.510	1.07%
V 292.402†	13303.6	72.201 ug/L	0.7986	72.201 ppb	0.7986	1.11%
Zn 213.857†	27976.4	245.57 ug/L	2.477	245.57 ppb	2.477	1.01%
SiO2†	765220.6	49908 ug/L	154.8	49908 ppb	154.8	0.31%

Sequence No.: 61

Sample ID: 244628004|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 1/30/2010 00:28:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628004|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5588.3	5588.3	106 %		00:30:08
1	Y RADIAL	6933.8	6933.8	125.5 %		00:30:08
1	Al 396.153Radial†	39630.8	37513.6	30303 ug/L	30303 ppb	00:30:08
1	Ca 317.933Radial†	3790.9	3557.4	5921.9 ug/L	5921.9 ppb	00:30:28
1	Fe 238.204 Radial†	10014.5	9442.5	90542 ug/L	90542 ppb	00:30:08
1	K 766.490 Radial†	30972.4	26573.0	4795.1 ug/L	4795.1 ppb	00:30:08
1	Mg 279.077 IEC†	157.7	147.5	5537.9 ug/L	5537.9 ppb	00:30:28
1	Na 589.592 Radial†	885.6	1423.5	433.53 ug/L	433.53 ppb	00:30:08
1	Sr 421.552†	10269.3	9626.2	59.247 ug/L	59.247 ppb	00:30:08
1	Sc 361.383	1029186.3	1029186.3	103.75 %		00:31:25
1	Y 371.029	1048750.8	1048750.8	121.95 %		00:31:25
1	Ag 328.068†	-5801.8	-5966.6	4.4287 ug/L	4.4287 ppb	00:31:30
1	As 188.979†	-50.4	-12.1	38.136 ug/L	38.136 ppb	00:31:50
1	B 249.677†	710.8	1026.2	8.7987 ug/L	8.7987 ppb	00:31:30
1	Ba 233.527†	46380.5	44720.5	365.65 ug/L	365.65 ppb	00:31:30
1	Be 313.107†	-5085.2	-98.9	5.7032 ug/L	5.7032 ppb	00:31:30
1	Cd 226.502†	763.8	919.7	0.9582 ug/L	0.9582 ppb	00:31:50
1	Co 228.616†	949.4	984.1	14.373 ug/L	14.373 ppb	00:31:50
1	Cr 267.716†	3403.6	3211.3	35.936 ug/L	35.936 ppb	00:31:50
1	Cu 324.752†	21629.4	11877.5	38.425 ug/L	38.425 ppb	00:31:30
1	Mn 257.610†	2795542.8	2693926.0	3036.3 ug/L	3036.3 ppb	00:31:25
1	Mo 202.031†	116.0	101.2	14.048 ug/L	14.048 ppb	00:31:50
1	Ni 231.604†	1253.9	1128.2	27.294 ug/L	27.294 ppb	00:31:50
1	P 214.914†	1454.1	1152.8	565.12 ug/L	565.12 ppb	00:31:50
1	Pb 220.353†	821.0	836.5	98.499 ug/L	98.499 ppb	00:31:50
1	S 181.975 Axial†	272.0	219.4	289.00 ug/L	289.00 ppb	00:31:50
1	Sb 206.836†	62.0	24.9	1.4651 ug/L	1.4651 ppb	00:31:50
1	Se 196.026†	-447.3	-407.5	78.136 ug/L	78.136 ppb	00:31:50
1	Si 251.611†	761103.5	733189.3	22397 ug/L	22397 ppb	00:31:25
1	Sn 189.927†	-22.5	-22.8	-1.7185 ug/L	-1.7185 ppb	00:31:50
1	Ti 334.940†	1728193.8	1666741.8	2528.4 ug/L	2528.4 ppb	00:31:25
1	Tl 190.801†	-153.8	-103.2	1.7820 ug/L	1.7820 ppb	00:31:50
1	U 409.014†	-10169.6	-7008.2	-189.31 ug/L	-189.31 ppb	00:31:25
1	V 292.402†	12769.7	13774.4	73.614 ug/L	73.614 ppb	00:31:30
1	Zn 213.857†	49331.0	46627.1	416.62 ug/L	416.62 ppb	00:31:30
1	SiO2†	754164.1	726506.7	47383 ug/L	47383 ppb	00:32:58
2	Sc Radial	5470.6	5470.6	104 %		00:30:33
2	Y RADIAL	6894.7	6894.7	124.8 %		00:30:33
2	Al 396.153Radial†	41251.3	39880.5	32215 ug/L	32215 ppb	00:30:33
2	Ca 317.933Radial†	3795.2	3638.6	6056.9 ug/L	6056.9 ppb	00:30:53
2	Fe 238.204 Radial†	10334.9	9954.6	95453 ug/L	95453 ppb	00:30:33
2	K 766.490 Radial†	31789.8	27989.8	5050.9 ug/L	5050.9 ppb	00:30:33
2	Mg 279.077 IEC†	156.0	149.1	5591.8 ug/L	5591.8 ppb	00:30:53
2	Na 589.592 Radial†	970.5	1523.3	463.92 ug/L	463.92 ppb	00:30:33
2	Sr 421.552†	10643.5	10195.5	62.752 ug/L	62.752 ppb	00:30:33
2	Sc 361.383	1019426.2	1019426.2	102.77 %		00:31:56
2	Y 371.029	1040382.0	1040382.0	120.98 %		00:31:56
2	Ag 328.068†	-5761.7	-5981.1	5.9617 ug/L	5.9617 ppb	00:32:01
2	As 188.979†	-55.6	-17.6	37.014 ug/L	37.014 ppb	00:32:21
2	B 249.677†	715.2	1037.1	8.2492 ug/L	8.2492 ppb	00:32:01
2	Ba 233.527†	46367.1	45135.4	369.17 ug/L	369.17 ppb	00:32:01
2	Be 313.107†	-5116.2	-176.0	5.6773 ug/L	5.6773 ppb	00:32:01
2	Cd 226.502†	763.7	926.7	0.5285 ug/L	0.5285 ppb	00:32:21
2	Co 228.616†	959.4	1002.7	14.692 ug/L	14.692 ppb	00:32:21
2	Cr 267.716†	3384.2	3223.8	36.166 ug/L	36.166 ppb	00:32:21
2	Cu 324.752†	21553.0	12002.8	39.041 ug/L	39.041 ppb	00:32:01
2	Mn 257.610†	2771359.6	2696191.0	3039.3 ug/L	3039.3 ppb	00:31:56
2	Mo 202.031†	110.0	96.5	14.107 ug/L	14.107 ppb	00:32:21
2	Ni 231.604†	1248.4	1134.3	27.444 ug/L	27.444 ppb	00:32:21

2	P 214.914†	1431.1	1143.9	556.64 ug/L	556.64 ppb	00:32:21
2	Pb 220.353†	814.9	838.1	98.630 ug/L	98.630 ppb	00:32:21
2	S 181.975 Axial†	274.5	224.4	295.34 ug/L	295.34 ppb	00:32:21
2	Sb 206.836†	50.6	14.4	-1.8732 ug/L	-1.8732 ppb	00:32:21
2	Se 196.026†	-454.6	-418.6	88.383 ug/L	88.383 ppb	00:32:21
2	Si 251.611†	753229.5	732550.7	22377 ug/L	22377 ppb	00:31:56
2	Sn 189.927†	-31.4	-31.7	-3.2178 ug/L	-3.2178 ppb	00:32:21
2	Ti 334.940†	1712446.1	1667365.8	2529.4 ug/L	2529.4 ppb	00:31:56
2	Tl 190.801†	-179.5	-129.6	-6.7457 ug/L	-6.7457 ppb	00:32:21
2	U 409.014†	-10238.3	-7168.9	-193.97 ug/L	-193.97 ppb	00:31:56
2	V 292.402†	12742.9	13866.2	73.483 ug/L	73.483 ppb	00:32:01
2	Zn 213.857†	49256.5	47009.9	419.64 ug/L	419.64 ppb	00:32:01
2	SiO2†	754600.4	733890.6	47864 ug/L	47864 ppb	00:33:04
3	Sc Radial	5614.8	5614.8	106 %		00:30:58
3	Y RADIAL	6980.8	6980.8	126.4 %		00:30:58
3	Al 396.153Radial†	40167.8	37841.3	30568 ug/L	30568 ppb	00:30:58
3	Ca 317.933Radial†	3820.9	3568.7	5940.6 ug/L	5940.6 ppb	00:31:18
3	Fe 238.204 Radial†	10113.0	9490.3	91001 ug/L	91001 ppb	00:30:58
3	K 766.490 Radial†	31328.0	26769.0	4830.5 ug/L	4830.5 ppb	00:30:58
3	Mg 279.077 IEC†	159.6	148.5	5576.3 ug/L	5576.3 ppb	00:31:18
3	Na 589.592 Radial†	968.0	1497.0	455.89 ug/L	455.89 ppb	00:30:58
3	Sr 421.552†	10447.9	9748.2	59.998 ug/L	59.998 ppb	00:30:58
3	Sc 361.383	1007423.3	1007423.3	101.56 %		00:32:27
3	Y 371.029	1027075.0	1027075.0	119.43 %		00:32:27
3	Ag 328.068†	-5793.8	-6079.6	4.1127 ug/L	4.1127 ppb	00:32:33
3	As 188.979†	-58.3	-20.9	34.690 ug/L	34.690 ppb	00:32:53
3	B 249.677†	735.6	1065.4	9.6225 ug/L	9.6225 ppb	00:32:33
3	Ba 233.527†	46622.3	45924.3	375.44 ug/L	375.44 ppb	00:32:33
3	Be 313.107†	-5005.4	-126.3	5.7180 ug/L	5.7180 ppb	00:32:33
3	Cd 226.502†	752.1	924.2	0.9595 ug/L	0.9595 ppb	00:32:53
3	Co 228.616†	965.9	1020.2	15.108 ug/L	15.108 ppb	00:32:53
3	Cr 267.716†	3367.4	3246.5	36.323 ug/L	36.323 ppb	00:32:53
3	Cu 324.752†	21649.9	12348.0	39.783 ug/L	39.783 ppb	00:32:33
3	Mn 257.610†	2754817.6	2712033.1	3056.7 ug/L	3056.7 ppb	00:32:27
3	Mo 202.031†	109.9	97.6	13.838 ug/L	13.838 ppb	00:32:53
3	Ni 231.604†	1240.8	1141.3	27.612 ug/L	27.612 ppb	00:32:53
3	P 214.914†	1418.6	1148.2	562.01 ug/L	562.01 ppb	00:32:53
3	Pb 220.353†	823.8	856.3	100.89 ug/L	100.89 ppb	00:32:53
3	S 181.975 Axial†	270.5	223.6	294.58 ug/L	294.58 ppb	00:32:53
3	Sb 206.836†	64.9	29.0	2.7475 ug/L	2.7475 ppb	00:32:53
3	Se 196.026†	-442.9	-412.4	76.986 ug/L	76.986 ppb	00:32:53
3	Si 251.611†	748286.0	736415.7	22495 ug/L	22495 ppb	00:32:27
3	Sn 189.927†	-22.9	-23.6	-1.8536 ug/L	-1.8536 ppb	00:32:53
3	Ti 334.940†	1698959.4	1673939.5	2539.4 ug/L	2539.4 ppb	00:32:27
3	Tl 190.801†	-173.6	-125.9	-5.3628 ug/L	-5.3628 ppb	00:32:53
3	U 409.014†	-10292.4	-7340.9	-197.86 ug/L	-197.86 ppb	00:32:27
3	V 292.402†	12804.3	14074.3	75.468 ug/L	75.468 ppb	00:32:33
3	Zn 213.857†	49553.2	47873.0	427.95 ug/L	427.95 ppb	00:32:33
3	SiO2†	753308.8	741367.5	48352 ug/L	48352 ppb	00:33:09

Mean Data: 244628004|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1018678.6	102.69 %	%	1.099			1.07%
Sc Radial	5557.9	105 %	%	1.5			1.38%
Y 371.029	1038735.9	120.79 %	%	1.271			1.05%
Y RADIAL	6936.4	125.6 %	%	0.78			0.62%
Ag 328.068†	-6009.1	4.8344 ug/L	ug/L	0.98897	4.8344 ppb	0.98897	20.46%
Al 396.153Radial†	38411.8	31029 ug/L	ug/L	1036.0	31029 ppb	1036.0	3.34%
As 188.979†	-16.9	36.614 ug/L	ug/L	1.7576	36.614 ppb	1.7576	4.80%
B 249.677†	1042.9	8.8901 ug/L	ug/L	0.69118	8.8901 ppb	0.69118	7.77%
Ba 233.527†	45260.0	370.09 ug/L	ug/L	4.955	370.09 ppb	4.955	1.34%
Be 313.107†	-133.7	5.6995 ug/L	ug/L	0.02064	5.6995 ppb	0.02064	0.36%
Ca 317.933Radial†	3588.2	5973.1 ug/L	ug/L	73.16	5973.1 ppb	73.16	1.22%
Cd 226.502†	923.5	0.8154 ug/L	ug/L	0.24848	0.8154 ppb	0.24848	30.47%
Co 228.616†	1002.3	14.724 ug/L	ug/L	0.3690	14.724 ppb	0.3690	2.51%
Cr 267.716†	3227.2	36.142 ug/L	ug/L	0.1948	36.142 ppb	0.1948	0.54%
Cu 324.752†	12076.1	39.083 ug/L	ug/L	0.6796	39.083 ppb	0.6796	1.74%
Fe 238.204 Radial†	9629.1	92332 ug/L	ug/L	2712.7	92332 ppb	2712.7	2.94%
K 766.490 Radial†	27110.6	4892.1 ug/L	ug/L	138.60	4892.1 ppb	138.60	2.83%

Mg 279.077 IEC†	148.4	5568.7 ug/L	27.74	5568.7 ppb	27.74	0.50%
Mn 257.610†	2700716.7	3044.1 ug/L	11.00	3044.1 ppb	11.00	0.36%
Mo 202.031†	98.4	13.998 ug/L	0.1416	13.998 ppb	0.1416	1.01%
Na 589.592 Radial†	1481.3	451.12 ug/L	15.748	451.12 ppb	15.748	3.49%
Ni 231.604†	1134.6	27.450 ug/L	0.1593	27.450 ppb	0.1593	0.58%
P 214.914†	1148.3	561.26 ug/L	4.290	561.26 ppb	4.290	0.76%
Pb 220.353†	843.6	99.340 ug/L	1.3451	99.340 ppb	1.3451	1.35%
S 181.975 Axial†	222.5	292.97 ug/L	3.463	292.97 ppb	3.463	1.18%
Sb 206.836†	22.8	0.7798 ug/L	2.38534	0.7798 ppb	2.38534	305.89%
Se 196.026†	-412.8	81.168 ug/L	6.2746	81.168 ppb	6.2746	7.73%
Si 251.611†	734051.9	22423 ug/L	63.3	22423 ppb	63.3	0.28%
Sn 189.927†	-26.0	-2.2633 ug/L	0.82937	-2.2633 ppb	0.82937	36.64%
Sr 421.552†	9856.7	60.666 ug/L	1.8456	60.666 ppb	1.8456	3.04%
Ti 334.940†	1669349.0	2532.4 ug/L	6.05	2532.4 ppb	6.05	0.24%
Tl 190.801†	-119.6	-3.4422 ug/L	4.57679	-3.4422 ppb	4.57679	132.96%
U 409.014†	-7172.7	-193.71 ug/L	4.279	-193.71 ppb	4.279	2.21%
V 292.402†	13905.0	74.188 ug/L	1.1101	74.188 ppb	1.1101	1.50%
Zn 213.857†	47170.0	421.40 ug/L	5.865	421.40 ppb	5.865	1.39%
SiO2†	733921.6	47867 ug/L	484.6	47867 ppb	484.6	1.01%

Sequence No.: 62

Sample ID: 244628005|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 1/30/2010 00:35:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628005|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5556.9	5556.9	105 %		00:37:14
1	Y RADIAL	7494.6	7494.6	135.7 %		00:37:14
1	Al 396.153Radial†	24407.0	23274.0	18801 ug/L	18801 ppb	00:37:14
1	Ca 317.933Radial†	1641.2	1537.1	2558.7 ug/L	2558.7 ppb	00:37:34
1	Fe 238.204 Radial†	8095.8	7674.5	73589 ug/L	73589 ppb	00:37:14
1	K 766.490 Radial†	20650.2	16940.0	3056.3 ug/L	3056.3 ppb	00:37:14
1	Mg 279.077 IEC†	103.3	96.7	3615.3 ug/L	3615.3 ppb	00:37:34
1	Na 589.592 Radial†	5937.5	6223.5	1895.3 ug/L	1895.3 ppb	00:37:14
1	Sr 421.552†	4088.0	3813.6	23.470 ug/L	23.470 ppb	00:37:14
1	Sc 361.383	1016539.5	1016539.5	102.48 %		00:38:31
1	Y 371.029	1120947.4	1120947.4	130.35 %		00:38:31
1	Ag 328.068†	-4591.9	-4855.5	3.5664 ug/L	3.5664 ppb	00:38:36
1	As 188.979†	-66.5	-28.4	26.762 ug/L	26.762 ppb	00:38:56
1	B 249.677†	425.6	756.4	5.3881 ug/L	5.3881 ppb	00:38:36
1	Ba 233.527†	12167.5	11890.0	98.758 ug/L	98.758 ppb	00:38:36
1	Be 313.107†	-7834.3	-2842.6	4.5201 ug/L	4.5201 ppb	00:38:36
1	Cd 226.502†	537.0	707.6	0.3030 ug/L	0.3030 ppb	00:38:56
1	Co 228.616†	399.5	458.9	3.5492 ug/L	3.5492 ppb	00:38:56
1	Cr 267.716†	2056.8	1937.9	22.095 ug/L	22.095 ppb	00:38:36
1	Cu 324.752†	15890.2	6536.2	22.495 ug/L	22.495 ppb	00:38:36
1	Mn 257.610†	2544200.2	2482176.7	2796.7 ug/L	2796.7 ppb	00:38:31
1	Mo 202.031†	33.2	21.8	7.2421 ug/L	7.2421 ppb	00:38:56
1	Ni 231.604†	716.9	619.2	14.981 ug/L	14.981 ppb	00:38:56
1	P 214.914†	1154.4	877.8	426.95 ug/L	426.95 ppb	00:38:56
1	Pb 220.353†	497.2	530.3	60.784 ug/L	60.784 ppb	00:38:56
1	S 181.975 Axial†	148.1	101.8	133.22 ug/L	133.22 ppb	00:38:56
1	Sb 206.836†	54.5	18.3	-0.6935 ug/L	-0.6935 ppb	00:38:56
1	Se 196.026†	-364.9	-332.3	62.474 ug/L	62.474 ppb	00:38:56
1	Si 251.611†	531587.8	518344.0	15834 ug/L	15834 ppb	00:38:31
1	Sn 189.927†	6.2	4.9	2.5230 ug/L	2.5230 ppb	00:38:56
1	Ti 334.940†	1652794.4	1613887.0	2448.0 ug/L	2448.0 ppb	00:38:31
1	Tl 190.801†	-169.3	-120.2	-5.3645 ug/L	-5.3645 ppb	00:38:56
1	U 409.014†	-13494.5	-10374.7	-273.29 ug/L	-273.29 ppb	00:38:31
1	V 292.402†	4687.4	6040.4	25.571 ug/L	25.571 ppb	00:38:36
1	Zn 213.857†	53328.4	51119.5	459.37 ug/L	459.37 ppb	00:38:36
1	SiO2†	528245.4	515088.3	33594 ug/L	33594 ppb	00:40:04
2	Sc Radial	5568.1	5568.1	106 %		00:37:39
2	Y RADIAL	7502.5	7502.5	135.8 %		00:37:39
2	Al 396.153Radial†	24721.9	23525.7	19004 ug/L	19004 ppb	00:37:39
2	Ca 317.933Radial†	1643.8	1536.4	2557.6 ug/L	2557.6 ppb	00:37:59
2	Fe 238.204 Radial†	8187.2	7745.6	74271 ug/L	74271 ppb	00:37:39
2	K 766.490 Radial†	21023.6	17254.2	3113.0 ug/L	3113.0 ppb	00:37:39
2	Mg 279.077 IEC†	103.3	96.5	3605.1 ug/L	3605.1 ppb	00:37:59
2	Na 589.592 Radial†	6136.4	6400.5	1949.3 ug/L	1949.3 ppb	00:37:39
2	Sr 421.552†	4121.1	3837.2	23.615 ug/L	23.615 ppb	00:37:39
2	Sc 361.383	1015180.1	1015180.1	102.34 %		00:39:02
2	Y 371.029	1121340.6	1121340.6	130.39 %		00:39:02
2	Ag 328.068†	-4594.0	-4863.6	3.7568 ug/L	3.7568 ppb	00:39:07
2	As 188.979†	-66.4	-28.4	26.946 ug/L	26.946 ppb	00:39:27
2	B 249.677†	412.2	743.8	4.9893 ug/L	4.9893 ppb	00:39:07
2	Ba 233.527†	12292.4	12027.9	99.900 ug/L	99.900 ppb	00:39:07
2	Be 313.107†	-7920.5	-2937.0	4.4903 ug/L	4.4903 ppb	00:39:07
2	Cd 226.502†	543.9	715.0	0.3159 ug/L	0.3159 ppb	00:39:27
2	Co 228.616†	403.7	463.5	3.6333 ug/L	3.6333 ppb	00:39:27
2	Cr 267.716†	2063.2	1946.8	22.205 ug/L	22.205 ppb	00:39:07
2	Cu 324.752†	16141.8	6802.9	23.285 ug/L	23.285 ppb	00:39:07
2	Mn 257.610†	2545470.6	2486742.6	2801.9 ug/L	2801.9 ppb	00:39:02
2	Mo 202.031†	38.6	27.1	7.6588 ug/L	7.6588 ppb	00:39:27
2	Ni 231.604†	752.6	655.0	15.847 ug/L	15.847 ppb	00:39:27

2	P 214.914†	1136.9	862.2	417.68 ug/L	417.68 ppb	00:39:27
2	Pb 220.353†	493.1	526.9	60.356 ug/L	60.356 ppb	00:39:27
2	S 181.975 Axial†	147.5	101.3	132.54 ug/L	132.54 ppb	00:39:27
2	Sb 206.836†	51.4	15.3	-1.6515 ug/L	-1.6515 ppb	00:39:27
2	Se 196.026†	-360.0	-328.1	67.076 ug/L	67.076 ppb	00:39:27
2	Si 251.611†	531517.4	518969.9	15853 ug/L	15853 ppb	00:39:02
2	Sn 189.927†	2.2	1.1	1.8291 ug/L	1.8291 ppb	00:39:27
2	Ti 334.940†	1651942.7	1615214.5	2450.0 ug/L	2450.0 ppb	00:39:02
2	Tl 190.801†	-159.9	-111.2	-2.4286 ug/L	-2.4286 ppb	00:39:27
2	U 409.014†	-13536.9	-10433.8	-274.88 ug/L	-274.88 ppb	00:39:02
2	V 292.402†	4781.4	6138.4	26.109 ug/L	26.109 ppb	00:39:07
2	Zn 213.857†	53815.3	51664.9	464.28 ug/L	464.28 ppb	00:39:07
2	SiO2†	530562.7	518042.9	33787 ug/L	33787 ppb	00:40:10
3	Sc Radial	5670.1	5670.1	107 %		00:38:04
3	Y RADIAL	7647.5	7647.5	138.5 %		00:38:04
3	Al 396.153Radial†	24845.7	23219.8	18757 ug/L	18757 ppb	00:38:04
3	Ca 317.933Radial†	1617.5	1484.0	2470.3 ug/L	2470.3 ppb	00:38:24
3	Fe 238.204 Radial†	8263.5	7677.1	73615 ug/L	73615 ppb	00:38:04
3	K 766.490 Radial†	20944.9	16822.9	3035.1 ug/L	3035.1 ppb	00:38:04
3	Mg 279.077 IEC†	100.4	92.1	3438.0 ug/L	3438.0 ppb	00:38:24
3	Na 589.592 Radial†	6060.0	6225.0	1895.8 ug/L	1895.8 ppb	00:38:04
3	Sr 421.552†	4190.5	3831.5	23.581 ug/L	23.581 ppb	00:38:04
3	Sc 361.383	1011900.8	1011900.8	102.01 %		00:39:33
3	Y 371.029	1115765.8	1115765.8	129.75 %		00:39:33
3	Ag 328.068†	-4637.6	-4920.9	3.2992 ug/L	3.2992 ppb	00:39:38
3	As 188.979†	-66.4	-28.5	26.771 ug/L	26.771 ppb	00:39:58
3	B 249.677†	350.8	685.0	3.7437 ug/L	3.7437 ppb	00:39:38
3	Ba 233.527†	12271.7	12046.6	100.03 ug/L	100.03 ppb	00:39:38
3	Be 313.107†	-7530.1	-2579.5	4.6301 ug/L	4.6301 ppb	00:39:38
3	Cd 226.502†	540.2	713.2	0.3632 ug/L	0.3632 ppb	00:39:58
3	Co 228.616†	434.2	494.7	4.2922 ug/L	4.2922 ppb	00:39:58
3	Cr 267.716†	2085.2	1974.9	22.488 ug/L	22.488 ppb	00:39:38
3	Cu 324.752†	15962.6	6678.4	22.898 ug/L	22.898 ppb	00:39:38
3	Mn 257.610†	2545464.6	2494797.4	2810.9 ug/L	2810.9 ppb	00:39:33
3	Mo 202.031†	24.7	13.6	6.6803 ug/L	6.6803 ppb	00:39:58
3	Ni 231.604†	734.2	639.3	15.469 ug/L	15.469 ppb	00:39:58
3	P 214.914†	1136.0	865.0	419.73 ug/L	419.73 ppb	00:39:58
3	Pb 220.353†	491.5	526.9	60.363 ug/L	60.363 ppb	00:39:58
3	S 181.975 Axial†	139.6	94.1	122.87 ug/L	122.87 ppb	00:39:58
3	Sb 206.836†	51.9	16.0	-1.4701 ug/L	-1.4701 ppb	00:39:58
3	Se 196.026†	-361.1	-330.3	63.693 ug/L	63.693 ppb	00:39:58
3	Si 251.611†	530684.1	519836.1	15880 ug/L	15880 ppb	00:39:33
3	Sn 189.927†	-0.5	-1.6	1.3287 ug/L	1.3287 ppb	00:39:58
3	Ti 334.940†	1649397.6	1617950.6	2454.2 ug/L	2454.2 ppb	00:39:33
3	Tl 190.801†	-167.3	-119.0	-4.8656 ug/L	-4.8656 ppb	00:39:58
3	U 409.014†	-13387.6	-10330.3	-272.16 ug/L	-272.16 ppb	00:39:33
3	V 292.402†	4735.6	6108.6	25.995 ug/L	25.995 ppb	00:39:38
3	Zn 213.857†	53727.3	51749.1	465.11 ug/L	465.11 ppb	00:39:38
3	SiO2†	522588.0	511905.3	33387 ug/L	33387 ppb	00:40:15

Mean Data: 244628005|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1014540.1	102.27 %		0.240			0.24%
Sc Radial	5598.4	106 %		1.2			1.11%
Y 371.029	1119351.3	130.16 %		0.362			0.28%
Y RADIAL	7548.2	136.7 %		1.56			1.14%
Ag 328.068†	-4880.0	3.5408 ug/L		0.22988	3.5408 ppb	0.22988	6.49%
Al 396.153Radial†	23339.8	18854 ug/L		131.9	18854 ppb	131.9	0.70%
As 188.979†	-28.4	26.827 ug/L		0.1037	26.827 ppb	0.1037	0.39%
B 249.677†	728.4	4.7070 ug/L		0.85776	4.7070 ppb	0.85776	18.22%
Ba 233.527†	11988.2	99.563 ug/L		0.6998	99.563 ppb	0.6998	0.70%
Be 313.107†	-2786.4	4.5469 ug/L		0.07367	4.5469 ppb	0.07367	1.62%
Ca 317.933Radial†	1519.2	2528.9 ug/L		50.73	2528.9 ppb	50.73	2.01%
Cd 226.502†	711.9	0.3274 ug/L		0.03167	0.3274 ppb	0.03167	9.67%
Co 228.616†	472.4	3.8249 ug/L		0.40688	3.8249 ppb	0.40688	10.64%
Cr 267.716†	1953.2	22.263 ug/L		0.2025	22.263 ppb	0.2025	0.91%
Cu 324.752†	6672.5	22.893 ug/L		0.3949	22.893 ppb	0.3949	1.72%
Fe 238.204 Radial†	7699.1	73825 ug/L		386.4	73825 ppb	386.4	0.52%
K 766.490 Radial†	17005.7	3068.1 ug/L		40.25	3068.1 ppb	40.25	1.31%

Mg 279.077 IEC†	95.1	3552.8 ug/L	99.58	3552.8 ppb	99.58	2.80%
Mn 257.610†	2487905.6	2803.2 ug/L	7.18	2803.2 ppb	7.18	0.26%
Mo 202.031†	20.9	7.1938 ug/L	0.49106	7.1938 ppb	0.49106	6.83%
Na 589.592 Radial†	6283.0	1913.5 ug/L	31.00	1913.5 ppb	31.00	1.62%
Ni 231.604†	637.8	15.432 ug/L	0.4344	15.432 ppb	0.4344	2.81%
P 214.914†	868.3	421.45 ug/L	4.870	421.45 ppb	4.870	1.16%
Pb 220.353†	528.1	60.501 ug/L	0.2449	60.501 ppb	0.2449	0.40%
S 181.975 Axial†	99.1	129.54 ug/L	5.794	129.54 ppb	5.794	4.47%
Sb 206.836†	16.6	-1.2717 ug/L	0.50889	-1.2717 ppb	0.50889	40.02%
Se 196.026†	-330.2	64.414 ug/L	2.3843	64.414 ppb	2.3843	3.70%
Si 251.611†	519050.0	15856 ug/L	22.9	15856 ppb	22.9	0.14%
Sn 189.927†	1.5	1.8936 ug/L	0.59974	1.8936 ppb	0.59974	31.67%
Sr 421.552†	3827.4	23.555 ug/L	0.0758	23.555 ppb	0.0758	0.32%
Ti 334.940†	1615684.0	2450.8 ug/L	3.14	2450.8 ppb	3.14	0.13%
Tl 190.801†	-116.8	-4.2195 ug/L	1.57096	-4.2195 ppb	1.57096	37.23%
U 409.014†	-10379.6	-273.44 ug/L	1.365	-273.44 ppb	1.365	0.50%
V 292.402†	6095.8	25.891 ug/L	0.2836	25.891 ppb	0.2836	1.10%
Zn 213.857†	51511.2	462.92 ug/L	3.102	462.92 ppb	3.102	0.67%
SiO2†	515012.2	33589 ug/L	200.2	33589 ppb	200.2	0.60%

Sequence No.: 63
 Sample ID: 244628006|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 73
 Date Collected: 1/30/2010 00:42:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628006|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5575.3	5575.3	106 %		00:44:42
1	Y RADIAL	6752.7	6752.7	122.3 %		00:44:42
1	Al 396.153Radial†	87409.7	82802.6	66888 ug/L	66888 ppb	00:44:21
1	Ca 317.933Radial†	14021.8	13244.9	22048 ug/L	22048 ppb	00:44:21
1	Fe 238.204 Radial†	10111.7	9556.3	91634 ug/L	91634 ppb	00:44:21
1	K 766.490 Radial†	53787.6	48225.6	8699.9 ug/L	8699.9 ppb	00:44:21
1	Mg 279.077 IEC†	326.9	307.9	11660 ug/L	11660 ppb	00:44:42
1	Na 589.592 Radial†	2362.3	2822.6	859.60 ug/L	859.60 ppb	00:44:21
1	Sr 421.552†	28435.0	26834.7	165.12 ug/L	165.12 ppb	00:44:21
1	Sc 361.383	1007025.8	1007025.8	101.52 %		00:45:39
1	Y 371.029	1002259.3	1002259.3	116.55 %		00:45:39
1	Ag 328.068†	-5771.8	-6060.1	4.3130 ug/L	4.3130 ppb	00:45:44
1	As 188.979†	-45.4	-8.2	34.893 ug/L	34.893 ppb	00:46:04
1	B 249.677†	1216.3	1539.2	20.378 ug/L	20.378 ppb	00:45:44
1	Ba 233.527†	76235.8	75113.5	612.28 ug/L	612.28 ppb	00:45:44
1	Be 313.107†	-2704.3	2138.5	5.1881 ug/L	5.1881 ppb	00:45:44
1	Cd 226.502†	678.3	851.7	0.1996 ug/L	0.1996 ppb	00:46:04
1	Co 228.616†	1302.6	1352.2	23.341 ug/L	23.341 ppb	00:46:04
1	Cr 267.716†	37883.1	37248.0	396.15 ug/L	396.15 ppb	00:45:44
1	Cu 324.752†	24769.5	15429.4	48.503 ug/L	48.503 ppb	00:45:44
1	Mn 257.610†	1767302.0	1740336.9	1964.5 ug/L	1964.5 ppb	00:45:39
1	Mo 202.031†	219.3	205.4	21.481 ug/L	21.481 ppb	00:46:04
1	Ni 231.604†	8834.4	8622.0	208.68 ug/L	208.68 ppb	00:46:04
1	P 214.914†	1599.3	1326.7	667.33 ug/L	667.33 ppb	00:46:04
1	Pb 220.353†	502.5	540.1	70.898 ug/L	70.898 ppb	00:46:04
1	S 181.975 Axial†	710.9	657.5	870.50 ug/L	870.50 ppb	00:46:04
1	Sb 206.836†	75.1	39.1	7.1383 ug/L	7.1383 ppb	00:46:04
1	Se 196.026†	-453.2	-422.7	75.719 ug/L	75.719 ppb	00:46:04
1	Si 251.611†	732225.4	720885.9	22021 ug/L	22021 ppb	00:45:39
1	Sn 189.927†	-114.8	-114.2	-15.825 ug/L	-15.825 ppb	00:46:04
1	Ti 334.940†	1298431.6	1280053.9	1943.5 ug/L	1943.5 ppb	00:45:39
1	Tl 190.801†	-156.9	-109.6	-10.364 ug/L	-10.364 ppb	00:46:04
1	U 409.014†	-9393.4	-6459.3	-176.23 ug/L	-176.23 ppb	00:45:39
1	V 292.402†	18594.5	19783.0	113.29 ug/L	113.29 ppb	00:45:44
1	Zn 213.857†	27697.0	26362.6	230.37 ug/L	230.37 ppb	00:45:44
1	SiO2†	733109.3	721762.5	47073 ug/L	47073 ppb	00:47:13
2	Sc Radial	5561.6	5561.6	105 %		00:45:07
2	Y RADIAL	6723.1	6723.1	121.7 %		00:45:07
2	Al 396.153Radial†	86456.1	82102.5	66322 ug/L	66322 ppb	00:44:47
2	Ca 317.933Radial†	13875.7	13139.1	21872 ug/L	21872 ppb	00:44:47
2	Fe 238.204 Radial†	10002.3	9476.2	90865 ug/L	90865 ppb	00:44:47
2	K 766.490 Radial†	52973.4	47579.1	8583.2 ug/L	8583.2 ppb	00:44:47
2	Mg 279.077 IEC†	324.5	306.4	11603 ug/L	11603 ppb	00:45:07
2	Na 589.592 Radial†	2359.7	2825.6	860.52 ug/L	860.52 ppb	00:44:47
2	Sr 421.552†	28056.7	26542.4	163.32 ug/L	163.32 ppb	00:44:47
2	Sc 361.383	1004524.8	1004524.8	101.26 %		00:46:10
2	Y 371.029	998745.2	998745.2	116.14 %		00:46:10
2	Ag 328.068†	-5836.1	-6137.8	3.7363 ug/L	3.7363 ppb	00:46:15
2	As 188.979†	-44.9	-7.8	34.877 ug/L	34.877 ppb	00:46:35
2	B 249.677†	1134.3	1461.2	18.712 ug/L	18.712 ppb	00:46:15
2	Ba 233.527†	76661.2	75720.7	617.17 ug/L	617.17 ppb	00:46:15
2	Be 313.107†	-2530.5	2303.5	5.2510 ug/L	5.2510 ppb	00:46:15
2	Cd 226.502†	680.8	855.8	0.3248 ug/L	0.3248 ppb	00:46:35
2	Co 228.616†	1286.2	1339.2	23.076 ug/L	23.076 ppb	00:46:35
2	Cr 267.716†	38051.9	37507.7	398.88 ug/L	398.88 ppb	00:46:15
2	Cu 324.752†	24890.1	15609.3	48.972 ug/L	48.972 ppb	00:46:15
2	Mn 257.610†	1766013.1	1743398.5	1967.8 ug/L	1967.8 ppb	00:46:10
2	Mo 202.031†	221.7	208.3	21.619 ug/L	21.619 ppb	00:46:35
2	Ni 231.604†	8797.7	8607.5	208.32 ug/L	208.32 ppb	00:46:35

2	P 214.914†	1622.7	1353.8	682.66 ug/L	682.66 ppb	00:46:35
2	Pb 220.353†	524.9	563.5	73.652 ug/L	73.652 ppb	00:46:35
2	S 181.975 Axial†	709.0	657.4	870.41 ug/L	870.41 ppb	00:46:35
2	Sb 206.836†	77.8	41.9	8.0620 ug/L	8.0620 ppb	00:46:35
2	Se 196.026†	-433.7	-404.6	83.103 ug/L	83.103 ppb	00:46:35
2	Si 251.611†	731488.1	721953.5	22054 ug/L	22054 ppb	00:46:10
2	Sn 189.927†	-112.0	-111.7	-15.416 ug/L	-15.416 ppb	00:46:35
2	Ti 334.940†	1295998.8	1280836.1	1944.6 ug/L	1944.6 ppb	00:46:10
2	Tl 190.801†	-136.1	-89.4	-3.7978 ug/L	-3.7978 ppb	00:46:35
2	U 409.014†	-9478.1	-6566.0	-178.87 ug/L	-178.87 ppb	00:46:10
2	V 292.402†	18440.5	19676.5	112.70 ug/L	112.70 ppb	00:46:15
2	Zn 213.857†	27757.9	26490.6	231.61 ug/L	231.61 ppb	00:46:15
2	SiO2†	730077.1	720566.2	46995 ug/L	46995 ppb	00:47:19
3	Sc Radial	5551.4	5551.4	105 %		00:45:32
3	Y RADIAL	6724.4	6724.4	121.8 %		00:45:32
3	Al 396.153Radial†	85516.8	81360.9	65723 ug/L	65723 ppb	00:45:12
3	Ca 317.933Radial†	13704.3	13000.5	21641 ug/L	21641 ppb	00:45:12
3	Fe 238.204 Radial†	9887.9	9384.9	89991 ug/L	89991 ppb	00:45:12
3	K 766.490 Radial†	52666.9	47380.4	8547.4 ug/L	8547.4 ppb	00:45:12
3	Mg 279.077 IEC†	325.7	308.1	11669 ug/L	11669 ppb	00:45:32
3	Na 589.592 Radial†	2302.2	2775.1	845.14 ug/L	845.14 ppb	00:45:12
3	Sr 421.552†	27717.1	26268.7	161.64 ug/L	161.64 ppb	00:45:12
3	Sc 361.383	1013454.8	1013454.8	102.16 %		00:46:41
3	Y 371.029	1007947.4	1007947.4	117.21 %		00:46:41
3	Ag 328.068†	-5789.3	-6041.2	3.8575 ug/L	3.8575 ppb	00:46:47
3	As 188.979†	-44.7	-7.3	34.897 ug/L	34.897 ppb	00:47:07
3	B 249.677†	1194.6	1510.4	19.983 ug/L	19.983 ppb	00:46:47
3	Ba 233.527†	76207.1	74609.1	608.13 ug/L	608.13 ppb	00:46:47
3	Be 313.107†	-2555.5	2301.1	5.2505 ug/L	5.2505 ppb	00:46:47
3	Cd 226.502†	691.0	860.0	0.4609 ug/L	0.4609 ppb	00:47:07
3	Co 228.616†	1315.4	1356.6	23.451 ug/L	23.451 ppb	00:47:07
3	Cr 267.716†	38015.8	37141.2	394.98 ug/L	394.98 ppb	00:46:47
3	Cu 324.752†	24698.7	15205.4	47.784 ug/L	47.784 ppb	00:46:47
3	Mn 257.610†	1776926.4	1738713.7	1962.5 ug/L	1962.5 ppb	00:46:41
3	Mo 202.031†	213.4	198.3	20.861 ug/L	20.861 ppb	00:47:07
3	Ni 231.604†	8813.8	8546.7	206.85 ug/L	206.85 ppb	00:47:07
3	P 214.914†	1612.7	1329.9	670.22 ug/L	670.22 ppb	00:47:07
3	Pb 220.353†	523.9	557.9	72.937 ug/L	72.937 ppb	00:47:07
3	S 181.975 Axial†	719.6	661.6	876.27 ug/L	876.27 ppb	00:47:07
3	Sb 206.836†	84.6	47.9	9.9478 ug/L	9.9478 ppb	00:47:07
3	Se 196.026†	-450.5	-417.2	73.239 ug/L	73.239 ppb	00:47:07
3	Si 251.611†	736852.7	720839.5	22020 ug/L	22020 ppb	00:46:41
3	Sn 189.927†	-115.6	-114.3	-15.933 ug/L	-15.933 ppb	00:47:07
3	Ti 334.940†	1307640.3	1280953.7	1944.8 ug/L	1944.8 ppb	00:46:41
3	Tl 190.801†	-134.2	-86.3	-2.8239 ug/L	-2.8239 ppb	00:47:07
3	U 409.014†	-9475.3	-6480.8	-176.59 ug/L	-176.59 ppb	00:46:41
3	V 292.402†	18339.7	19417.4	111.14 ug/L	111.14 ppb	00:46:47
3	Zn 213.857†	27678.6	26171.4	228.79 ug/L	228.79 ppb	00:46:47
3	SiO2†	732888.1	716964.8	46760 ug/L	46760 ppb	00:47:25

Mean Data: 244628006|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1008335.1	101.65	%	0.464			0.46%
Sc Radial	5562.8	105	%	0.2			0.22%
Y 371.029	1002984.0	116.63	%	0.540			0.46%
Y RADIAL	6733.4	121.9	%	0.30			0.25%
Ag 328.068†	-6079.7	3.9689	ug/L	0.30404	3.9689 ppb	0.30404	7.66%
Al 396.153Radial†	82088.7	66311	ug/L	582.4	66311 ppb	582.4	0.88%
As 188.979†	-7.7	34.889	ug/L	0.0106	34.889 ppb	0.0106	0.03%
B 249.677†	1503.6	19.691	ug/L	0.8705	19.691 ppb	0.8705	4.42%
Ba 233.527†	75147.8	612.53	ug/L	4.528	612.53 ppb	4.528	0.74%
Be 313.107†	2247.7	5.2298	ug/L	0.03618	5.2298 ppb	0.03618	0.69%
Ca 317.933Radial†	13128.2	21854	ug/L	204.0	21854 ppb	204.0	0.93%
Cd 226.502†	855.8	0.3284	ug/L	0.13070	0.3284 ppb	0.13070	39.80%
Co 228.616†	1349.3	23.289	ug/L	0.1927	23.289 ppb	0.1927	0.83%
Cr 267.716†	37298.9	396.67	ug/L	2.001	396.67 ppb	2.001	0.50%
Cu 324.752†	15414.7	48.420	ug/L	0.5983	48.420 ppb	0.5983	1.24%
Fe 238.204 Radial†	9472.5	90830	ug/L	822.3	90830 ppb	822.3	0.91%
K 766.490 Radial†	47728.4	8610.2	ug/L	79.74	8610.2 ppb	79.74	0.93%

Mg 279.077 IEC†	307.4	11644 ug/L	35.9	11644 ppb	35.9	0.31%
Mn 257.610†	1740816.3	1964.9 ug/L	2.71	1964.9 ppb	2.71	0.14%
Mo 202.031†	204.0	21.320 ug/L	0.4037	21.320 ppb	0.4037	1.89%
Na 589.592 Radial†	2807.8	855.09 ug/L	8.625	855.09 ppb	8.625	1.01%
Ni 231.604†	8592.0	207.95 ug/L	0.968	207.95 ppb	0.968	0.47%
P 214.914†	1336.8	673.40 ug/L	8.144	673.40 ppb	8.144	1.21%
Pb 220.353†	553.8	72.495 ug/L	1.4291	72.495 ppb	1.4291	1.97%
S 181.975 Axial†	658.8	872.39 ug/L	3.355	872.39 ppb	3.355	0.38%
Sb 206.836†	43.0	8.3827 ug/L	1.43198	8.3827 ppb	1.43198	17.08%
Se 196.026†	-414.8	77.354 ug/L	5.1312	77.354 ppb	5.1312	6.63%
Si 251.611†	721226.3	22031 ug/L	19.2	22031 ppb	19.2	0.09%
Sn 189.927†	-113.4	-15.725 ug/L	0.2725	-15.725 ppb	0.2725	1.73%
Sr 421.552†	26548.6	163.36 ug/L	1.742	163.36 ppb	1.742	1.07%
Ti 334.940†	1280614.6	1944.3 ug/L	0.72	1944.3 ppb	0.72	0.04%
Tl 190.801†	-95.1	-5.6620 ug/L	4.10135	-5.6620 ppb	4.10135	72.44%
U 409.014†	-6502.0	-177.23 ug/L	1.433	-177.23 ppb	1.433	0.81%
V 292.402†	19625.6	112.37 ug/L	1.111	112.37 ppb	1.111	0.99%
Zn 213.857†	26341.5	230.26 ug/L	1.412	230.26 ppb	1.412	0.61%
SiO2†	719764.5	46943 ug/L	162.9	46943 ppb	162.9	0.35%

Sequence No.: 64

Sample ID: 244628007|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 1/30/2010 00:49:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628007|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5705.5	5705.5	108 %		00:51:29
1	Y RADIAL	6995.9	6995.9	126.7 %		00:51:29
1	Al 396.153Radial†	49221.6	45611.2	36845 ug/L	36845 ppb	00:51:29
1	Ca 317.933Radial†	3649.7	3353.4	5582.2 ug/L	5582.2 ppb	00:51:49
1	Fe 238.204 Radial†	8316.2	7678.0	73623 ug/L	73623 ppb	00:51:29
1	K 766.490 Radial†	29636.9	24737.5	4464.0 ug/L	4464.0 ppb	00:51:29
1	Mg 279.077 IEC†	133.6	122.2	4587.0 ug/L	4587.0 ppb	00:51:49
1	Na 589.592 Radial†	2662.8	3049.4	928.67 ug/L	928.67 ppb	00:51:29
1	Sr 421.552†	8448.8	7744.0	47.656 ug/L	47.656 ppb	00:51:29
1	Sc 361.383	987043.1	987043.1	99.502 %		00:52:47
1	Y 371.029	996060.8	996060.8	115.83 %		00:52:47
1	Ag 328.068†	-4434.9	-4831.6	3.7409 ug/L	3.7409 ppb	00:52:52
1	As 188.979†	-40.5	-4.2	28.499 ug/L	28.499 ppb	00:53:12
1	B 249.677†	529.1	872.9	8.0300 ug/L	8.0300 ppb	00:52:52
1	Ba 233.527†	33097.6	33279.8	272.31 ug/L	272.31 ppb	00:52:52
1	Be 313.107†	-4948.1	-170.4	3.3471 ug/L	3.3471 ppb	00:52:52
1	Cd 226.502†	514.2	700.4	0.2699 ug/L	0.2699 ppb	00:53:12
1	Co 228.616†	834.1	907.4	15.050 ug/L	15.050 ppb	00:53:12
1	Cr 267.716†	13766.9	13766.6	147.29 ug/L	147.29 ppb	00:52:52
1	Cu 324.752†	17834.0	8953.2	29.300 ug/L	29.300 ppb	00:52:52
1	Mn 257.610†	1783601.6	1791962.7	2021.0 ug/L	2021.0 ppb	00:52:47
1	Mo 202.031†	111.9	101.9	12.780 ug/L	12.780 ppb	00:53:12
1	Ni 231.604†	3583.0	3520.5	85.200 ug/L	85.200 ppb	00:53:12
1	P 214.914†	641.9	396.4	163.99 ug/L	163.99 ppb	00:53:12
1	Pb 220.353†	338.7	385.5	47.296 ug/L	47.296 ppb	00:53:12
1	S 181.975 Axial†	146.9	104.9	133.96 ug/L	133.96 ppb	00:53:12
1	Sb 206.836†	56.5	22.0	3.3666 ug/L	3.3666 ppb	00:53:12
1	Se 196.026†	-361.0	-339.1	60.073 ug/L	60.073 ppb	00:53:12
1	Si 251.611†	765012.8	768439.9	23474 ug/L	23474 ppb	00:52:47
1	Sn 189.927†	0.1	-1.0	1.9001 ug/L	1.9001 ppb	00:53:12
1	Ti 334.940†	984140.3	990083.0	1502.1 ug/L	1502.1 ppb	00:52:47
1	Tl 190.801†	-136.7	-92.4	-8.0266 ug/L	-8.0266 ppb	00:53:12
1	U 409.014†	-11644.3	-8908.8	-236.15 ug/L	-236.15 ppb	00:52:47
1	V 292.402†	9610.2	11124.5	59.771 ug/L	59.771 ppb	00:52:52
1	Zn 213.857†	23620.6	22818.1	200.57 ug/L	200.57 ppb	00:52:52
1	SiO2†	777057.4	780550.8	50908 ug/L	50908 ppb	00:54:21
2	Sc Radial	5776.2	5776.2	110 %		00:51:54
2	Y RADIAL	7100.6	7100.6	128.6 %		00:51:54
2	Al 396.153Radial†	49808.3	45590.4	36828 ug/L	36828 ppb	00:51:54
2	Ca 317.933Radial†	3651.3	3313.6	5515.9 ug/L	5515.9 ppb	00:52:14
2	Fe 238.204 Radial†	8424.9	7683.4	73674 ug/L	73674 ppb	00:51:54
2	K 766.490 Radial†	30074.8	24802.2	4475.7 ug/L	4475.7 ppb	00:51:54
2	Mg 279.077 IEC†	134.1	121.1	4546.6 ug/L	4546.6 ppb	00:52:14
2	Na 589.592 Radial†	2748.1	3097.2	943.23 ug/L	943.23 ppb	00:51:54
2	Sr 421.552†	8566.6	7756.0	47.730 ug/L	47.730 ppb	00:51:54
2	Sc 361.383	998764.3	998764.3	100.68 %		00:53:18
2	Y 371.029	1006796.0	1006796.0	117.07 %		00:53:18
2	Ag 328.068†	-4541.0	-4884.7	3.5272 ug/L	3.5272 ppb	00:53:23
2	As 188.979†	-40.2	-3.4	28.826 ug/L	28.826 ppb	00:53:43
2	B 249.677†	573.5	910.7	8.8917 ug/L	8.8917 ppb	00:53:23
2	Ba 233.527†	33068.2	32860.1	268.91 ug/L	268.91 ppb	00:53:23
2	Be 313.107†	-4915.8	-80.0	3.3747 ug/L	3.3747 ppb	00:53:23
2	Cd 226.502†	489.9	670.1	-0.0749 ug/L	-0.0749 ppb	00:53:43
2	Co 228.616†	840.6	903.9	14.980 ug/L	14.980 ppb	00:53:43
2	Cr 267.716†	13673.7	13511.6	144.59 ug/L	144.59 ppb	00:53:23
2	Cu 324.752†	17844.5	8753.3	28.737 ug/L	28.737 ppb	00:53:23
2	Mn 257.610†	1799726.2	1786941.2	2015.4 ug/L	2015.4 ppb	00:53:18
2	Mo 202.031†	108.2	96.9	12.440 ug/L	12.440 ppb	00:53:43
2	Ni 231.604†	3567.1	3462.4	83.794 ug/L	83.794 ppb	00:53:43

2	P 214.914†	639.4	386.3	158.45 ug/L	158.45 ppb	00:53:43
2	Pb 220.353†	354.3	397.0	48.663 ug/L	48.663 ppb	00:53:43
2	S 181.975 Axial†	139.0	95.3	121.07 ug/L	121.07 ppb	00:53:43
2	Sb 206.836†	47.7	12.5	0.2946 ug/L	0.2946 ppb	00:53:43
2	Se 196.026†	-351.9	-325.8	67.498 ug/L	67.498 ppb	00:53:43
2	Si 251.611†	772168.5	766524.1	23415 ug/L	23415 ppb	00:53:18
2	Sn 189.927†	-15.8	-16.8	-0.9656 ug/L	-0.9656 ppb	00:53:43
2	Ti 334.940†	994242.0	988508.7	1499.7 ug/L	1499.7 ppb	00:53:18
2	Tl 190.801†	-123.6	-77.7	-3.3297 ug/L	-3.3297 ppb	00:53:43
2	U 409.014†	-11626.3	-8753.6	-232.19 ug/L	-232.19 ppb	00:53:18
2	V 292.402†	9619.6	11020.6	59.093 ug/L	59.093 ppb	00:53:23
2	Zn 213.857†	23463.8	22383.8	196.61 ug/L	196.61 ppb	00:53:23
2	SiO2†	769160.6	763542.6	49798 ug/L	49798 ppb	00:54:27
3	Sc Radial	5684.8	5684.8	108 %		00:52:19
3	Y RADIAL	7011.4	7011.4	126.9 %		00:52:19
3	Al 396.153Radial†	49128.9	45690.8	36909 ug/L	36909 ppb	00:52:19
3	Ca 317.933Radial†	3678.2	3392.1	5646.7 ug/L	5646.7 ppb	00:52:40
3	Fe 238.204 Radial†	8320.3	7709.9	73929 ug/L	73929 ppb	00:52:19
3	K 766.490 Radial†	29688.6	24885.1	4490.6 ug/L	4490.6 ppb	00:52:19
3	Mg 279.077 IEC†	136.6	125.4	4710.6 ug/L	4710.6 ppb	00:52:40
3	Na 589.592 Radial†	2629.5	3027.4	921.97 ug/L	921.97 ppb	00:52:19
3	Sr 421.552†	8470.8	7792.8	47.956 ug/L	47.956 ppb	00:52:19
3	Sc 361.383	1009062.1	1009062.1	101.72 %		00:53:49
3	Y 371.029	1018214.2	1018214.2	118.40 %		00:53:49
3	Ag 328.068†	-4516.9	-4815.0	3.9012 ug/L	3.9012 ppb	00:53:54
3	As 188.979†	-49.9	-12.6	25.128 ug/L	25.128 ppb	00:54:14
3	B 249.677†	522.6	854.8	7.5672 ug/L	7.5672 ppb	00:53:54
3	Ba 233.527†	32605.6	32070.2	262.51 ug/L	262.51 ppb	00:53:54
3	Be 313.107†	-4958.5	-72.1	3.3793 ug/L	3.3793 ppb	00:53:54
3	Cd 226.502†	502.4	677.5	-0.0196 ug/L	-0.0196 ppb	00:54:14
3	Co 228.616†	831.3	886.3	14.600 ug/L	14.600 ppb	00:54:14
3	Cr 267.716†	13532.4	13234.1	141.66 ug/L	141.66 ppb	00:53:54
3	Cu 324.752†	17622.9	8354.5	27.625 ug/L	27.625 ppb	00:53:54
3	Mn 257.610†	1814952.2	1783667.5	2011.7 ug/L	2011.7 ppb	00:53:49
3	Mo 202.031†	101.7	89.4	11.944 ug/L	11.944 ppb	00:54:14
3	Ni 231.604†	3571.7	3430.8	83.030 ug/L	83.030 ppb	00:54:14
3	P 214.914†	635.1	375.7	152.62 ug/L	152.62 ppb	00:54:14
3	Pb 220.353†	354.6	393.7	48.261 ug/L	48.261 ppb	00:54:14
3	S 181.975 Axial†	144.7	99.6	126.78 ug/L	126.78 ppb	00:54:14
3	Sb 206.836†	58.5	22.7	3.5715 ug/L	3.5715 ppb	00:54:14
3	Se 196.026†	-344.6	-315.0	74.259 ug/L	74.259 ppb	00:54:14
3	Si 251.611†	780314.2	766705.3	23421 ug/L	23421 ppb	00:53:49
3	Sn 189.927†	-5.7	-6.7	0.8858 ug/L	0.8858 ppb	00:54:14
3	Ti 334.940†	1005016.2	989022.9	1500.5 ug/L	1500.5 ppb	00:53:49
3	Tl 190.801†	-130.7	-83.5	-5.1932 ug/L	-5.1932 ppb	00:54:14
3	U 409.014†	-11844.5	-8850.3	-234.68 ug/L	-234.68 ppb	00:53:49
3	V 292.402†	9548.9	10853.6	57.960 ug/L	57.960 ppb	00:53:54
3	Zn 213.857†	23256.1	21941.7	192.56 ug/L	192.56 ppb	00:53:54
3	SiO2†	783041.6	769392.4	50180 ug/L	50180 ppb	00:54:32

Mean Data: 244628007|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	998289.9	100.64 %		1.111			1.10%
Sc Radial	5722.2	108 %		0.9			0.84%
Y 371.029	1007023.6	117.10 %		1.288			1.10%
Y RADIAL	7036.0	127.4 %		1.02			0.80%
Ag 328.068†	-4843.8	3.7231 ug/L		0.18764	3.7231 ppb	0.18764	5.04%
Al 396.153Radial†	45630.8	36861 ug/L		42.8	36861 ppb	42.8	0.12%
As 188.979†	-6.7	27.484 ug/L		2.0472	27.484 ppb	2.0472	7.45%
B 249.677†	879.5	8.1630 ug/L		0.67219	8.1630 ppb	0.67219	8.23%
Ba 233.527†	32736.7	267.91 ug/L		4.978	267.91 ppb	4.978	1.86%
Be 313.107†	-107.5	3.3671 ug/L		0.01741	3.3671 ppb	0.01741	0.52%
Ca 317.933Radial†	3353.0	5581.6 ug/L		65.40	5581.6 ppb	65.40	1.17%
Cd 226.502†	682.7	0.0585 ug/L		0.18518	0.0585 ppb	0.18518	316.64%
Co 228.616†	899.2	14.877 ug/L		0.2421	14.877 ppb	0.2421	1.63%
Cr 267.716†	13504.1	144.51 ug/L		2.817	144.51 ppb	2.817	1.95%
Cu 324.752†	8687.0	28.554 ug/L		0.8523	28.554 ppb	0.8523	2.98%
Fe 238.204 Radial†	7690.4	73742 ug/L		163.7	73742 ppb	163.7	0.22%
K 766.490 Radial†	24808.3	4476.7 ug/L		13.35	4476.7 ppb	13.35	0.30%

Mg 279.077 IEC†	122.9	4614.7 ug/L	85.47	4614.7 ppb	85.47	1.85%
Mn 257.610†	1787523.8	2016.0 ug/L	4.68	2016.0 ppb	4.68	0.23%
Mo 202.031†	96.1	12.388 ug/L	0.4208	12.388 ppb	0.4208	3.40%
Na 589.592 Radial†	3058.0	931.29 ug/L	10.867	931.29 ppb	10.867	1.17%
Ni 231.604†	3471.2	84.008 ug/L	1.1007	84.008 ppb	1.1007	1.31%
P 214.914†	386.2	158.35 ug/L	5.684	158.35 ppb	5.684	3.59%
Pb 220.353†	392.1	48.073 ug/L	0.7025	48.073 ppb	0.7025	1.46%
S 181.975 Axial†	99.9	127.27 ug/L	6.458	127.27 ppb	6.458	5.07%
Sb 206.836†	19.1	2.4109 ug/L	1.83560	2.4109 ppb	1.83560	76.14%
Se 196.026†	-326.6	67.277 ug/L	7.0958	67.277 ppb	7.0958	10.55%
Si 251.611†	767223.1	23437 ug/L	32.3	23437 ppb	32.3	0.14%
Sn 189.927†	-8.2	0.6068 ug/L	1.45306	0.6068 ppb	1.45306	239.48%
Sr 421.552†	7764.3	47.781 ug/L	0.1565	47.781 ppb	0.1565	0.33%
Ti 334.940†	989204.9	1500.8 ug/L	1.22	1500.8 ppb	1.22	0.08%
Tl 190.801†	-84.5	-5.5165 ug/L	2.36505	-5.5165 ppb	2.36505	42.87%
U 409.014†	-8837.6	-234.34 ug/L	2.003	-234.34 ppb	2.003	0.85%
V 292.402†	10999.6	58.941 ug/L	0.9148	58.941 ppb	0.9148	1.55%
Zn 213.857†	22381.2	196.58 ug/L	4.007	196.58 ppb	4.007	2.04%
Sio2†	771161.9	50295 ug/L	563.6	50295 ppb	563.6	1.12%

Sequence No.: 65

Sample ID: 244628008|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 1/30/2010 00:56:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628008|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5716.6	5716.6	108 %		00:58:36
1	Y RADIAL	7222.4	7222.4	130.8 %		00:58:36
1	Al 396.153Radial†	78519.9	72555.8	58611 ug/L	58611 ppb	00:58:36
1	Ca 317.933Radial†	10660.6	9815.7	16340 ug/L	16340 ppb	00:58:36
1	Fe 238.204 Radial†	10818.4	9971.9	95618 ug/L	95618 ppb	00:58:36
1	K 766.490 Radial†	49524.5	43034.2	7764.3 ug/L	7764.3 ppb	00:58:36
1	Mg 279.077 IEC†	305.5	280.5	10609 ug/L	10609 ppb	00:58:56
1	Na 589.592 Radial†	2554.9	2945.0	896.88 ug/L	896.88 ppb	00:58:36
1	Sr 421.552†	22935.2	21095.2	129.81 ug/L	129.81 ppb	00:58:36
1	Sc 361.383	999965.2	999965.2	100.80 %		00:59:54
1	Y 371.029	1029252.6	1029252.6	119.69 %		00:59:54
1	Ag 328.068†	-6142.1	-6467.6	4.0323 ug/L	4.0323 ppb	00:59:59
1	As 188.979†	-31.0	5.7	43.859 ug/L	43.859 ppb	01:00:19
1	B 249.677†	1457.0	1786.5	25.426 ug/L	25.426 ppb	00:59:59
1	Ba 233.527†	54450.0	54031.8	441.43 ug/L	441.43 ppb	00:59:59
1	Be 313.107†	-2252.5	2568.0	5.9444 ug/L	5.9444 ppb	00:59:59
1	Cd 226.502†	683.4	861.5	-0.1772 ug/L	-0.1772 ppb	01:00:19
1	Co 228.616†	995.4	1056.5	16.468 ug/L	16.468 ppb	01:00:19
1	Cr 267.716†	17196.8	16990.3	181.91 ug/L	181.91 ppb	00:59:59
1	Cu 324.752†	22407.5	13258.6	42.617 ug/L	42.617 ppb	00:59:59
1	Mn 257.610†	1777539.5	1762784.9	1990.1 ug/L	1990.1 ppb	00:59:54
1	Mo 202.031†	59.8	48.7	10.963 ug/L	10.963 ppb	01:00:19
1	Ni 231.604†	4577.5	4460.5	107.95 ug/L	107.95 ppb	01:00:19
1	P 214.914†	1040.2	783.2	362.97 ug/L	362.97 ppb	01:00:19
1	Pb 220.353†	553.0	593.8	75.064 ug/L	75.064 ppb	01:00:19
1	S 181.975 Axial†	486.4	439.8	579.66 ug/L	579.66 ppb	01:00:19
1	Sb 206.836†	63.8	28.5	3.0663 ug/L	3.0663 ppb	01:00:19
1	Se 196.026†	-446.9	-419.7	90.024 ug/L	90.024 ppb	01:00:19
1	Si 251.611†	856539.7	849301.0	25944 ug/L	25944 ppb	00:59:54
1	Sn 189.927†	-54.4	-55.1	-5.8997 ug/L	-5.8997 ppb	01:00:19
1	Ti 334.940†	1464872.9	1454198.2	2207.0 ug/L	2207.0 ppb	00:59:54
1	Tl 190.801†	-155.7	-109.4	-7.9913 ug/L	-7.9913 ppb	01:00:19
1	U 409.014†	-11585.5	-8699.2	-233.38 ug/L	-233.38 ppb	00:59:54
1	V 292.402†	19767.3	21075.8	120.64 ug/L	120.64 ppb	00:59:59
1	Zn 213.857†	26165.5	25035.9	218.52 ug/L	218.52 ppb	00:59:59
1	SiO2†	862825.3	855542.4	55799 ug/L	55799 ppb	01:01:28
2	Sc Radial	5671.0	5671.0	108 %		00:59:02
2	Y RADIAL	7158.0	7158.0	129.6 %		00:59:02
2	Al 396.153Radial†	77780.7	72450.9	58526 ug/L	58526 ppb	00:59:02
2	Ca 317.933Radial†	10565.9	9806.7	16325 ug/L	16325 ppb	00:59:02
2	Fe 238.204 Radial†	10670.7	9914.8	95071 ug/L	95071 ppb	00:59:02
2	K 766.490 Radial†	49127.3	43032.2	7764.0 ug/L	7764.0 ppb	00:59:02
2	Mg 279.077 IEC†	304.4	281.8	10659 ug/L	10659 ppb	00:59:22
2	Na 589.592 Radial†	2507.9	2920.2	889.34 ug/L	889.34 ppb	00:59:02
2	Sr 421.552†	22684.7	21032.4	129.42 ug/L	129.42 ppb	00:59:02
2	Sc 361.383	1000504.1	1000504.1	100.86 %		01:00:25
2	Y 371.029	1032034.7	1032034.7	120.01 %		01:00:25
2	Ag 328.068†	-5982.1	-6305.7	4.5354 ug/L	4.5354 ppb	01:00:30
2	As 188.979†	-39.8	-2.9	40.164 ug/L	40.164 ppb	01:00:50
2	B 249.677†	1445.7	1774.5	25.238 ug/L	25.238 ppb	01:00:30
2	Ba 233.527†	53958.4	53515.4	437.22 ug/L	437.22 ppb	01:00:30
2	Be 313.107†	-2499.8	2324.0	5.8541 ug/L	5.8541 ppb	01:00:30
2	Cd 226.502†	705.0	882.5	0.1159 ug/L	0.1159 ppb	01:00:50
2	Co 228.616†	1007.4	1067.9	16.718 ug/L	16.718 ppb	01:00:50
2	Cr 267.716†	16958.5	16744.8	179.30 ug/L	179.30 ppb	01:00:30
2	Cu 324.752†	22005.7	12848.2	41.429 ug/L	41.429 ppb	01:00:30
2	Mn 257.610†	1776274.7	1760581.2	1987.6 ug/L	1987.6 ppb	01:00:25
2	Mo 202.031†	76.6	65.4	12.063 ug/L	12.063 ppb	01:00:50
2	Ni 231.604†	4570.0	4450.6	107.71 ug/L	107.71 ppb	01:00:50

2	P 214.914†	1036.7	779.2	361.40 ug/L	361.40 ppb	01:00:50
2	Pb 220.353†	557.6	598.0	75.612 ug/L	75.612 ppb	01:00:50
2	S 181.975 Axial†	491.7	444.7	586.29 ug/L	586.29 ppb	01:00:50
2	Sb 206.836†	65.9	30.5	3.7045 ug/L	3.7045 ppb	01:00:50
2	Se 196.026†	-439.5	-412.1	92.364 ug/L	92.364 ppb	01:00:50
2	Si 251.611†	855860.0	848169.5	25909 ug/L	25909 ppb	01:00:25
2	Sn 189.927†	-63.3	-63.9	-7.5145 ug/L	-7.5145 ppb	01:00:50
2	Ti 334.940†	1465273.2	1453812.4	2206.4 ug/L	2206.4 ppb	01:00:25
2	Tl 190.801†	-151.2	-104.8	-6.5309 ug/L	-6.5309 ppb	01:00:50
2	U 409.014†	-11548.2	-8656.1	-232.21 ug/L	-232.21 ppb	01:00:25
2	V 292.402†	19542.7	20842.5	119.22 ug/L	119.22 ppb	01:00:30
2	Zn 213.857†	25928.8	24787.3	216.31 ug/L	216.31 ppb	01:00:30
2	SiO2†	865883.6	858113.7	55966 ug/L	55966 ppb	01:01:34
3	Sc Radial	5678.0	5678.0	108 %		00:59:27
3	Y RADIAL	7162.0	7162.0	129.7 %		00:59:27
3	Al 396.153Radial†	78296.0	72841.0	58841 ug/L	58841 ppb	00:59:27
3	Ca 317.933Radial†	10614.0	9839.3	16379 ug/L	16379 ppb	00:59:27
3	Fe 238.204 Radial†	10699.4	9929.3	95210 ug/L	95210 ppb	00:59:27
3	K 766.490 Radial†	49497.2	43319.9	7815.9 ug/L	7815.9 ppb	00:59:27
3	Mg 279.077 IEC†	304.1	281.2	10636 ug/L	10636 ppb	00:59:47
3	Na 589.592 Radial†	2582.2	2986.4	909.49 ug/L	909.49 ppb	00:59:27
3	Sr 421.552†	22838.1	21149.0	130.14 ug/L	130.14 ppb	00:59:27
3	Sc 361.383	1007687.6	1007687.6	101.58 %		01:00:56
3	Y 371.029	1038594.3	1038594.3	120.77 %		01:00:56
3	Ag 328.068†	-6088.0	-6367.7	4.3122 ug/L	4.3122 ppb	01:01:01
3	As 188.979†	-46.1	-8.9	37.735 ug/L	37.735 ppb	01:01:21
3	B 249.677†	1381.2	1700.8	23.525 ug/L	23.525 ppb	01:01:01
3	Ba 233.527†	54026.1	53200.7	434.67 ug/L	434.67 ppb	01:01:01
3	Be 313.107†	-2428.0	2412.3	5.8880 ug/L	5.8880 ppb	01:01:01
3	Cd 226.502†	719.1	891.4	0.2012 ug/L	0.2012 ppb	01:01:21
3	Co 228.616†	1010.8	1064.1	16.634 ug/L	16.634 ppb	01:01:21
3	Cr 267.716†	17057.6	16722.5	179.07 ug/L	179.07 ppb	01:01:01
3	Cu 324.752†	22107.5	12793.0	41.279 ug/L	41.279 ppb	01:01:01
3	Mn 257.610†	1787613.4	1759188.5	1986.0 ug/L	1986.0 ppb	01:00:56
3	Mo 202.031†	79.1	67.3	12.208 ug/L	12.208 ppb	01:01:21
3	Ni 231.604†	4585.3	4433.4	107.29 ug/L	107.29 ppb	01:01:21
3	P 214.914†	1034.1	769.3	355.93 ug/L	355.93 ppb	01:01:21
3	Pb 220.353†	542.1	578.8	73.358 ug/L	73.358 ppb	01:01:21
3	S 181.975 Axial†	488.2	437.9	577.05 ug/L	577.05 ppb	01:01:21
3	Sb 206.836†	76.8	40.7	6.9665 ug/L	6.9665 ppb	01:01:21
3	Se 196.026†	-449.5	-418.8	89.187 ug/L	89.187 ppb	01:01:21
3	Si 251.611†	862214.8	848376.0	25916 ug/L	25916 ppb	01:00:56
3	Sn 189.927†	-66.7	-66.8	-8.0224 ug/L	-8.0224 ppb	01:01:21
3	Ti 334.940†	1476303.3	1454314.0	2207.2 ug/L	2207.2 ppb	01:00:56
3	Tl 190.801†	-148.2	-100.9	-5.2440 ug/L	-5.2440 ppb	01:01:21
3	U 409.014†	-11576.3	-8602.1	-230.85 ug/L	-230.85 ppb	01:00:56
3	V 292.402†	19557.0	20718.5	118.39 ug/L	118.39 ppb	01:01:01
3	Zn 213.857†	25905.7	24581.3	214.42 ug/L	214.42 ppb	01:01:01
3	SiO2†	859512.6	845721.9	55158 ug/L	55158 ppb	01:01:40

Mean Data: 244628008|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1002719.0	101.08 %	%	0.435			0.43%
Sc Radial	5688.6	108 %	%	0.5			0.43%
Y 371.029	1033293.9	120.16 %	%	0.558			0.46%
Y RADIAL	7180.8	130.0 %	%	0.65			0.50%
Ag 328.068†	-6380.4	4.2933 ug/L	ug/L	0.25206	4.2933 ppb	0.25206	5.87%
Al 396.153Radial†	72615.9	58659 ug/L	ug/L	163.1	58659 ppb	163.1	0.28%
As 188.979†	-2.0	40.586 ug/L	ug/L	3.0840	40.586 ppb	3.0840	7.60%
B 249.677†	1753.9	24.729 ug/L	ug/L	1.0474	24.729 ppb	1.0474	4.24%
Ba 233.527†	53582.6	437.78 ug/L	ug/L	3.413	437.78 ppb	3.413	0.78%
Be 313.107†	2434.8	5.8955 ug/L	ug/L	0.04564	5.8955 ppb	0.04564	0.77%
Ca 317.933Radial†	9820.5	16348 ug/L	ug/L	28.0	16348 ppb	28.0	0.17%
Cd 226.502†	878.5	0.0466 ug/L	ug/L	0.19850	0.0466 ppb	0.19850	425.61%
Co 228.616†	1062.8	16.607 ug/L	ug/L	0.1274	16.607 ppb	0.1274	0.77%
Cr 267.716†	16819.2	180.10 ug/L	ug/L	1.579	180.10 ppb	1.579	0.88%
Cu 324.752†	12966.6	41.775 ug/L	ug/L	0.7330	41.775 ppb	0.7330	1.75%
Fe 238.204 Radial†	9938.6	95300 ug/L	ug/L	284.5	95300 ppb	284.5	0.30%
K 766.490 Radial†	43128.8	7781.4 ug/L	ug/L	29.88	7781.4 ppb	29.88	0.38%

Mg 279.077 IEC†	281.1	10635 ug/L	25.1	10635 ppb	25.1	0.24%
Mn 257.610†	1760851.5	1987.9 ug/L	2.06	1987.9 ppb	2.06	0.10%
Mo 202.031†	60.5	11.745 ug/L	0.6810	11.745 ppb	0.6810	5.80%
Na 589.592 Radial†	2950.5	898.57 ug/L	10.180	898.57 ppb	10.180	1.13%
Ni 231.604†	4448.2	107.65 ug/L	0.333	107.65 ppb	0.333	0.31%
P 214.914†	777.3	360.10 ug/L	3.695	360.10 ppb	3.695	1.03%
Pb 220.353†	590.2	74.678 ug/L	1.1755	74.678 ppb	1.1755	1.57%
S 181.975 Axial†	440.8	581.00 ug/L	4.762	581.00 ppb	4.762	0.82%
Sb 206.836†	33.2	4.5791 ug/L	2.09205	4.5791 ppb	2.09205	45.69%
Se 196.026†	-416.8	90.525 ug/L	1.6465	90.525 ppb	1.6465	1.82%
Si 251.611†	848615.5	25923 ug/L	18.4	25923 ppb	18.4	0.07%
Sn 189.927†	-61.9	-7.1455 ug/L	1.10843	-7.1455 ppb	1.10843	15.51%
Sr 421.552†	21092.2	129.79 ug/L	0.359	129.79 ppb	0.359	0.28%
Ti 334.940†	1454108.2	2206.9 ug/L	0.40	2206.9 ppb	0.40	0.02%
Tl 190.801†	-105.0	-6.5887 ug/L	1.37458	-6.5887 ppb	1.37458	20.86%
U 409.014†	-8652.5	-232.15 ug/L	1.267	-232.15 ppb	1.267	0.55%
V 292.402†	20878.9	119.42 ug/L	1.134	119.42 ppb	1.134	0.95%
Zn 213.857†	24801.5	216.41 ug/L	2.054	216.41 ppb	2.054	0.95%
SiO2†	853126.0	55641 ug/L	426.5	55641 ppb	426.5	0.77%

Sequence No.: 66

Sample ID: 244628009|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 1/30/2010 01:03:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628009|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5466.3	5466.3	104 %		01:05:44
1	Y RADIAL	7456.4	7456.4	135.0 %		01:05:44
1	Al 396.153Radial†	59896.3	57903.5	46775 ug/L	46775 ppb	01:05:44
1	Ca 317.933Radial†	7652.7	7363.7	12258 ug/L	12258 ppb	01:05:44
1	Fe 238.204 Radial†	9761.0	9408.7	90218 ug/L	90218 ppb	01:05:44
1	K 766.490 Radial†	36754.3	32804.6	5918.6 ug/L	5918.6 ppb	01:05:44
1	Mg 279.077 IEC†	246.0	236.1	8918.5 ug/L	8918.5 ppb	01:06:04
1	Na 589.592 Radial†	1463.6	1999.9	609.06 ug/L	609.06 ppb	01:05:44
1	Sr 421.552†	14120.0	13558.3	83.418 ug/L	83.418 ppb	01:05:44
1	Sc 361.383	1009871.1	1009871.1	101.80 %		01:07:01
1	Y 371.029	1115210.0	1115210.0	129.68 %		01:07:01
1	Ag 328.068†	-5538.5	-5815.0	4.9439 ug/L	4.9439 ppb	01:07:06
1	As 188.979†	-51.9	-14.4	37.737 ug/L	37.737 ppb	01:07:26
1	B 249.677†	825.2	1151.7	11.744 ug/L	11.744 ppb	01:07:06
1	Ba 233.527†	36521.3	35890.9	294.04 ug/L	294.04 ppb	01:07:06
1	Be 313.107†	2763.9	7517.4	8.6504 ug/L	8.6504 ppb	01:07:06
1	Cd 226.502†	664.3	836.0	0.0662 ug/L	0.0662 ppb	01:07:26
1	Co 228.616†	731.6	787.7	9.9909 ug/L	9.9909 ppb	01:07:26
1	Cr 267.716†	11029.5	10764.8	115.88 ug/L	115.88 ppb	01:07:06
1	Cu 324.752†	25093.6	15679.1	49.175 ug/L	49.175 ppb	01:07:06
1	Mn 257.610†	1857905.2	1824430.5	2058.9 ug/L	2058.9 ppb	01:07:01
1	Mo 202.031†	59.6	47.9	10.442 ug/L	10.442 ppb	01:07:26
1	Ni 231.604†	2949.0	2816.3	68.159 ug/L	68.159 ppb	01:07:26
1	P 214.914†	1243.0	972.4	467.52 ug/L	467.52 ppb	01:07:26
1	Pb 220.353†	532.5	568.2	69.903 ug/L	69.903 ppb	01:07:26
1	S 181.975 Axial†	338.4	289.6	380.20 ug/L	380.20 ppb	01:07:26
1	Sb 206.836†	69.6	33.5	3.3584 ug/L	3.3584 ppb	01:07:26
1	Se 196.026†	-415.9	-384.8	90.503 ug/L	90.503 ppb	01:07:26
1	Si 251.611†	705602.8	692702.6	21160 ug/L	21160 ppb	01:07:01
1	Sn 189.927†	-73.2	-73.0	-9.8679 ug/L	-9.8679 ppb	01:07:26
1	Ti 334.940†	1745482.2	1715583.4	2603.1 ug/L	2603.1 ppb	01:07:01
1	Tl 190.801†	-162.9	-115.0	-6.0685 ug/L	-6.0685 ppb	01:07:26
1	U 409.014†	-12396.6	-9383.2	-250.08 ug/L	-250.08 ppb	01:07:01
1	V 292.402†	13031.2	14266.7	76.654 ug/L	76.654 ppb	01:07:06
1	Zn 213.857†	44857.5	43142.3	384.57 ug/L	384.57 ppb	01:07:06
1	SiO2†	708525.8	695579.7	45366 ug/L	45366 ppb	01:08:34
2	Sc Radial	5664.6	5664.6	107 %		01:06:09
2	Y RADIAL	7694.1	7694.1	139.3 %		01:06:09
2	Al 396.153Radial†	59547.6	55555.7	44878 ug/L	44878 ppb	01:06:09
2	Ca 317.933Radial†	7648.9	7101.7	11822 ug/L	11822 ppb	01:06:09
2	Fe 238.204 Radial†	9748.0	9067.0	86941 ug/L	86941 ppb	01:06:09
2	K 766.490 Radial†	36644.9	31461.3	5676.1 ug/L	5676.1 ppb	01:06:09
2	Mg 279.077 IEC†	247.0	228.7	8639.6 ug/L	8639.6 ppb	01:06:29
2	Na 589.592 Radial†	1420.8	1910.7	581.88 ug/L	581.88 ppb	01:06:09
2	Sr 421.552†	14038.3	13005.2	80.015 ug/L	80.015 ppb	01:06:09
2	Sc 361.383	985759.0	985759.0	99.372 %		01:07:32
2	Y 371.029	1095223.7	1095223.7	127.36 %		01:07:32
2	Ag 328.068†	-5448.4	-5857.3	3.7195 ug/L	3.7195 ppb	01:07:38
2	As 188.979†	-44.3	-8.0	39.978 ug/L	39.978 ppb	01:07:58
2	B 249.677†	798.0	1144.1	12.102 ug/L	12.102 ppb	01:07:38
2	Ba 233.527†	36144.1	36388.8	297.98 ug/L	297.98 ppb	01:07:38
2	Be 313.107†	2684.8	7504.2	8.7444 ug/L	8.7444 ppb	01:07:38
2	Cd 226.502†	674.6	862.4	0.7007 ug/L	0.7007 ppb	01:07:58
2	Co 228.616†	734.5	808.2	10.381 ug/L	10.381 ppb	01:07:58
2	Cr 267.716†	10932.0	10931.8	117.59 ug/L	117.59 ppb	01:07:38
2	Cu 324.752†	24765.2	15951.5	49.774 ug/L	49.774 ppb	01:07:38
2	Mn 257.610†	1843801.8	1854878.2	2092.9 ug/L	2092.9 ppb	01:07:32
2	Mo 202.031†	59.0	48.8	10.242 ug/L	10.242 ppb	01:07:58
2	Ni 231.604†	2940.8	2878.9	69.672 ug/L	69.672 ppb	01:07:58

2	P 214.914†	1242.3	1001.5	485.64 ug/L	485.64 ppb	01:07:58
2	Pb 220.353†	529.4	577.9	70.960 ug/L	70.960 ppb	01:07:58
2	S 181.975 Axial†	324.2	283.5	372.33 ug/L	372.33 ppb	01:07:58
2	Sb 206.836†	73.8	39.4	5.0758 ug/L	5.0758 ppb	01:07:58
2	Se 196.026†	-412.4	-391.3	76.015 ug/L	76.015 ppb	01:07:58
2	Si 251.611†	700307.0	704326.9	21515 ug/L	21515 ppb	01:07:32
2	Sn 189.927†	-70.6	-72.1	-9.8259 ug/L	-9.8259 ppb	01:07:58
2	Ti 334.940†	1732316.0	1744273.0	2646.6 ug/L	2646.6 ppb	01:07:32
2	Tl 190.801†	-155.8	-111.7	-4.4932 ug/L	-4.4932 ppb	01:07:58
2	U 409.014†	-12345.2	-9629.4	-256.00 ug/L	-256.00 ppb	01:07:32
2	V 292.402†	12929.9	14477.8	78.441 ug/L	78.441 ppb	01:07:38
2	Zn 213.857†	44289.4	43648.3	389.49 ug/L	389.49 ppb	01:07:38
2	SiO2†	715678.4	719801.3	46946 ug/L	46946 ppb	01:08:40
3	Sc Radial	5693.0	5693.0	108 %		01:06:34
3	Y RADIAL	7749.7	7749.7	140.3 %		01:06:34
3	Al 396.153Radial†	59303.6	55052.4	44472 ug/L	44472 ppb	01:06:34
3	Ca 317.933Radial†	7600.5	7021.3	11688 ug/L	11688 ppb	01:06:34
3	Fe 238.204 Radial†	9672.7	8951.8	85838 ug/L	85838 ppb	01:06:34
3	K 766.490 Radial†	36643.7	31289.6	5645.2 ug/L	5645.2 ppb	01:06:34
3	Mg 279.077 IEC†	242.6	223.4	8439.1 ug/L	8439.1 ppb	01:06:54
3	Na 589.592 Radial†	1469.4	1949.1	593.58 ug/L	593.58 ppb	01:06:34
3	Sr 421.552†	14010.6	12914.3	79.456 ug/L	79.456 ppb	01:06:34
3	Sc 361.383	1005774.8	1005774.8	101.39 %		01:08:03
3	Y 371.029	1115270.3	1115270.3	129.69 %		01:08:03
3	Ag 328.068†	-5564.3	-5862.5	3.3392 ug/L	3.3392 ppb	01:08:09
3	As 188.979†	-58.5	-21.2	34.337 ug/L	34.337 ppb	01:08:29
3	B 249.677†	836.9	1166.6	12.796 ug/L	12.796 ppb	01:08:09
3	Ba 233.527†	36247.4	35766.9	292.90 ug/L	292.90 ppb	01:08:09
3	Be 313.107†	2903.2	7665.9	8.8082 ug/L	8.8082 ppb	01:08:09
3	Cd 226.502†	688.9	863.0	0.8203 ug/L	0.8203 ppb	01:08:29
3	Co 228.616†	741.0	799.9	10.218 ug/L	10.218 ppb	01:08:29
3	Cr 267.716†	11014.9	10794.6	116.11 ug/L	116.11 ppb	01:08:09
3	Cu 324.752†	24892.1	15580.8	48.670 ug/L	48.670 ppb	01:08:09
3	Mn 257.610†	1881838.1	1855468.2	2093.4 ug/L	2093.4 ppb	01:08:03
3	Mo 202.031†	70.5	58.9	10.850 ug/L	10.850 ppb	01:08:29
3	Ni 231.604†	2959.4	2838.4	68.691 ug/L	68.691 ppb	01:08:29
3	P 214.914†	1239.7	974.0	471.46 ug/L	471.46 ppb	01:08:29
3	Pb 220.353†	531.3	569.2	69.935 ug/L	69.935 ppb	01:08:29
3	S 181.975 Axial†	332.5	285.2	374.68 ug/L	374.68 ppb	01:08:29
3	Sb 206.836†	72.8	37.0	4.2742 ug/L	4.2742 ppb	01:08:29
3	Se 196.026†	-418.4	-388.9	73.611 ug/L	73.611 ppb	01:08:29
3	Si 251.611†	714971.7	704765.8	21529 ug/L	21529 ppb	01:08:03
3	Sn 189.927†	-76.4	-76.4	-10.646 ug/L	-10.646 ppb	01:08:29
3	Ti 334.940†	1768908.9	1745672.0	2648.7 ug/L	2648.7 ppb	01:08:03
3	Tl 190.801†	-160.7	-113.4	-5.0157 ug/L	-5.0157 ppb	01:08:29
3	U 409.014†	-12674.4	-9706.8	-257.85 ug/L	-257.85 ppb	01:08:03
3	V 292.402†	13025.8	14313.4	77.533 ug/L	77.533 ppb	01:08:09
3	Zn 213.857†	44587.6	43055.5	384.20 ug/L	384.20 ppb	01:08:09
3	SiO2†	714356.4	704165.0	45926 ug/L	45926 ppb	01:08:45

Mean Data: 244628009|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1000468.3	100.86	%	1.301			1.29%
Sc Radial	5607.9	106	%	2.3			2.20%
Y 371.029	1108568.0	128.91	%	1.344			1.04%
Y RADIAL	7633.4	138.2	%	2.82			2.04%
Ag 328.068†	-5844.9	4.0009	ug/L	0.83853	4.0009 ppb	0.83853	20.96%
Al 396.153Radial†	56170.5	45375	ug/L	1229.3	45375 ppb	1229.3	2.71%
As 188.979†	-14.5	37.351	ug/L	2.8401	37.351 ppb	2.8401	7.60%
B 249.677†	1154.1	12.214	ug/L	0.5348	12.214 ppb	0.5348	4.38%
Ba 233.527†	36015.5	294.97	ug/L	2.666	294.97 ppb	2.666	0.90%
Be 313.107†	7562.5	8.7343	ug/L	0.07937	8.7343 ppb	0.07937	0.91%
Ca 317.933Radial†	7162.2	11923	ug/L	298.1	11923 ppb	298.1	2.50%
Cd 226.502†	853.8	0.5291	ug/L	0.40527	0.5291 ppb	0.40527	76.60%
Co 228.616†	798.6	10.197	ug/L	0.1961	10.197 ppb	0.1961	1.92%
Cr 267.716†	10830.4	116.53	ug/L	0.926	116.53 ppb	0.926	0.79%
Cu 324.752†	15737.1	49.206	ug/L	0.5527	49.206 ppb	0.5527	1.12%
Fe 238.204 Radial†	9142.5	87666	ug/L	2278.5	87666 ppb	2278.5	2.60%
K 766.490 Radial†	31851.8	5746.6	ug/L	149.70	5746.6 ppb	149.70	2.61%

Mg 279.077 IEC†	229.4	8665.7 ug/L	240.76	8665.7 ppb	240.76	2.78%
Mn 257.610†	1844925.6	2081.7 ug/L	19.74	2081.7 ppb	19.74	0.95%
Mo 202.031†	51.9	10.511 ug/L	0.3100	10.511 ppb	0.3100	2.95%
Na 589.592 Radial†	1953.2	594.84 ug/L	13.631	594.84 ppb	13.631	2.29%
Ni 231.604†	2844.5	68.841 ug/L	0.7675	68.841 ppb	0.7675	1.11%
P 214.914†	982.6	474.87 ug/L	9.530	474.87 ppb	9.530	2.01%
Pb 220.353†	571.8	70.266 ug/L	0.6011	70.266 ppb	0.6011	0.86%
S 181.975 Axial†	286.1	375.74 ug/L	4.035	375.74 ppb	4.035	1.07%
Sb 206.836†	36.6	4.2361 ug/L	0.85933	4.2361 ppb	0.85933	20.29%
Se 196.026†	-388.3	80.043 ug/L	9.1383	80.043 ppb	9.1383	11.42%
Si 251.611†	700598.4	21401 ug/L	209.0	21401 ppb	209.0	0.98%
Sn 189.927†	-73.9	-10.113 ug/L	0.4618	-10.113 ppb	0.4618	4.57%
Sr 421.552†	13159.3	80.963 ug/L	2.1446	80.963 ppb	2.1446	2.65%
Ti 334.940†	1735176.1	2632.8 ug/L	25.74	2632.8 ppb	25.74	0.98%
Tl 190.801†	-113.4	-5.1925 ug/L	0.80241	-5.1925 ppb	0.80241	15.45%
U 409.014†	-9573.1	-254.64 ug/L	4.055	-254.64 ppb	4.055	1.59%
V 292.402†	14352.6	77.543 ug/L	0.8940	77.543 ppb	0.8940	1.15%
Zn 213.857†	43282.0	386.09 ug/L	2.957	386.09 ppb	2.957	0.77%
SiO2†	706515.3	46079 ug/L	801.0	46079 ppb	801.0	1.74%

Sequence No.: 67

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/30/2010 01:10:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5500.2	5500.2	104 %		01:12:49
1	Y RADIAL	5774.8	5774.8	104.6 %		01:12:49
1	Al 396.153Radial†	6280.1	6129.5	4926.2 ug/L	4926.2 ppb	01:12:49
1	Ca 317.933Radial†	3185.6	3034.3	5051.0 ug/L	5051.0 ppb	01:13:09
1	Fe 238.204 Radial†	573.8	540.2	5195.8 ug/L	5195.8 ppb	01:13:09
1	K 766.490 Radial†	32325.5	28338.8	5110.9 ug/L	5110.9 ppb	01:12:49
1	Mg 279.077 IEC†	144.7	137.4	5247.7 ug/L	5247.7 ppb	01:13:09
1	Na 589.592 Radial†	33996.6	33190.3	10108 ug/L	10108 ppb	01:12:49
1	Sr 421.552†	85995.3	82402.5	507.50 ug/L	507.50 ppb	01:12:49
1	Sc 361.383	965327.1	965327.1	97.313 %		01:14:06
1	Y 371.029	829040.4	829040.4	96.405 %		01:14:06
1	Ag 328.068†	121302.3	124277.7	530.72 ug/L	530.72 ppb	01:14:11
1	As 188.979†	1198.4	1268.0	525.68 ug/L	525.68 ppb	01:14:31
1	B 249.677†	21794.6	22737.6	519.70 ug/L	519.70 ppb	01:14:11
1	Ba 233.527†	63316.5	65081.4	529.16 ug/L	529.16 ppb	01:14:11
1	Be 313.107†	1378175.3	1421037.6	519.67 ug/L	519.67 ppb	01:14:06
1	Cd 226.502†	45640.3	47084.2	528.64 ug/L	528.64 ppb	01:14:11
1	Co 228.616†	24315.1	25055.6	529.64 ug/L	529.64 ppb	01:14:11
1	Cr 267.716†	48609.6	49882.7	528.44 ug/L	528.44 ppb	01:14:11
1	Cu 324.752†	189999.7	186276.7	525.90 ug/L	525.90 ppb	01:14:11
1	Mn 257.610†	450899.1	462781.0	520.40 ug/L	520.40 ppb	01:14:06
1	Mo 202.031†	7379.1	7572.3	520.47 ug/L	520.47 ppb	01:14:31
1	Ni 231.604†	21347.8	21856.8	528.72 ug/L	528.72 ppb	01:14:11
1	P 214.914†	4813.2	4697.5	2493.8 ug/L	2493.8 ppb	01:14:31
1	Pb 220.353†	4180.0	4340.6	523.51 ug/L	523.51 ppb	01:14:31
1	S 181.975 Axial†	802.4	781.9	1049.1 ug/L	1049.1 ppb	01:14:31
1	Sb 206.836†	1606.5	1616.0	537.79 ug/L	537.79 ppb	01:14:31
1	Se 196.026†	905.5	954.2	541.81 ug/L	541.81 ppb	01:14:31
1	Si 251.611†	84431.7	86359.7	2631.7 ug/L	2631.7 ppb	01:14:11
1	Sn 189.927†	2763.1	2838.3	515.69 ug/L	515.69 ppb	01:14:31
1	Ti 334.940†	331744.8	341921.0	518.44 ug/L	518.44 ppb	01:14:06
1	Tl 190.801†	1533.1	1620.5	527.89 ug/L	527.89 ppb	01:14:31
1	U 409.014†	17407.2	20681.8	526.21 ug/L	526.21 ppb	01:14:11
1	V 292.402†	77419.3	81023.5	534.16 ug/L	534.16 ppb	01:14:11
1	Zn 213.857†	57209.6	57868.7	523.66 ug/L	523.66 ppb	01:14:11
1	SiO2†	84370.2	86302.5	5614.5 ug/L	5614.5 ppb	01:15:39
2	Sc Radial	5436.1	5436.1	103 %		01:13:14
2	Y RADIAL	5673.2	5673.2	102.7 %		01:13:14
2	Al 396.153Radial†	6207.6	6130.1	4927.2 ug/L	4927.2 ppb	01:13:14
2	Ca 317.933Radial†	3172.8	3057.9	5090.3 ug/L	5090.3 ppb	01:13:34
2	Fe 238.204 Radial†	570.1	543.1	5222.7 ug/L	5222.7 ppb	01:13:34
2	K 766.490 Radial†	32057.1	28443.5	5129.8 ug/L	5129.8 ppb	01:13:14
2	Mg 279.077 IEC†	143.7	138.1	5271.4 ug/L	5271.4 ppb	01:13:34
2	Na 589.592 Radial†	33368.1	32964.4	10039 ug/L	10039 ppb	01:13:14
2	Sr 421.552†	84783.4	82197.8	506.24 ug/L	506.24 ppb	01:13:14
2	Sc 361.383	988933.8	988933.8	99.692 %		01:14:37
2	Y 371.029	848975.8	848975.8	98.723 %		01:14:37
2	Ag 328.068†	121440.1	121440.4	518.64 ug/L	518.64 ppb	01:14:43
2	As 188.979†	1202.4	1242.6	515.28 ug/L	515.28 ppb	01:15:03
2	B 249.677†	21906.9	22315.6	510.04 ug/L	510.04 ppb	01:14:43
2	Ba 233.527†	63563.9	63776.5	518.55 ug/L	518.55 ppb	01:14:43
2	Be 313.107†	1411628.9	1420787.7	519.58 ug/L	519.58 ppb	01:14:37
2	Cd 226.502†	45657.0	45981.4	516.25 ug/L	516.25 ppb	01:14:43
2	Co 228.616†	24366.0	24510.3	518.09 ug/L	518.09 ppb	01:14:43
2	Cr 267.716†	48608.3	48689.0	515.80 ug/L	515.80 ppb	01:14:43
2	Cu 324.752†	191288.5	182908.7	516.39 ug/L	516.39 ppb	01:14:43
2	Mn 257.610†	461379.9	462233.6	519.79 ug/L	519.79 ppb	01:14:37
2	Mo 202.031†	7414.9	7427.2	510.51 ug/L	510.51 ppb	01:15:03
2	Ni 231.604†	21366.6	21352.1	516.51 ug/L	516.51 ppb	01:14:43

2	P 214.914†	4822.0	4588.2	2435.2 ug/L	2435.2 ppb	01:15:03
2	Pb 220.353†	4192.0	4250.1	512.60 ug/L	512.60 ppb	01:15:03
2	S 181.975 Axial†	813.6	773.4	1037.7 ug/L	1037.7 ppb	01:15:03
2	Sb 206.836†	1617.6	1587.7	528.36 ug/L	528.36 ppb	01:15:03
2	Se 196.026†	904.6	931.2	529.23 ug/L	529.23 ppb	01:15:03
2	Si 251.611†	84839.7	84697.9	2581.0 ug/L	2581.0 ppb	01:14:43
2	Sn 189.927†	2795.6	2803.2	509.33 ug/L	509.33 ppb	01:15:03
2	Ti 334.940†	339505.7	341568.1	517.91 ug/L	517.91 ppb	01:14:37
2	Tl 190.801†	1535.5	1585.3	516.56 ug/L	516.56 ppb	01:15:03
2	U 409.014†	17622.2	20470.4	520.84 ug/L	520.84 ppb	01:14:43
2	V 292.402†	77320.7	79025.6	521.01 ug/L	521.01 ppb	01:14:43
2	Zn 213.857†	57266.7	56522.6	511.46 ug/L	511.46 ppb	01:14:43
2	SiO2†	84277.9	84140.3	5473.8 ug/L	5473.8 ppb	01:15:44
3	Sc Radial	5478.5	5478.5	104 %		01:13:39
3	Y RADIAL	5752.2	5752.2	104.1 %		01:13:39
3	Al 396.153Radial†	6280.9	6154.1	4946.7 ug/L	4946.7 ppb	01:13:39
3	Ca 317.933Radial†	3185.3	3046.1	5070.6 ug/L	5070.6 ppb	01:13:59
3	Fe 238.204 Radial†	570.4	539.1	5184.6 ug/L	5184.6 ppb	01:13:59
3	K 766.490 Radial†	32201.6	28342.2	5111.5 ug/L	5111.5 ppb	01:13:39
3	Mg 279.077 IEC†	144.1	137.4	5244.9 ug/L	5244.9 ppb	01:13:59
3	Na 589.592 Radial†	33826.4	33155.4	10097 ug/L	10097 ppb	01:13:39
3	Sr 421.552†	85684.1	82429.2	507.67 ug/L	507.67 ppb	01:13:39
3	Sc 361.383	987409.0	987409.0	99.539 %		01:15:09
3	Y 371.029	846584.0	846584.0	98.445 %		01:15:09
3	Ag 328.068†	120300.3	120483.4	514.56 ug/L	514.56 ppb	01:15:14
3	As 188.979†	1198.3	1240.4	514.38 ug/L	514.38 ppb	01:15:34
3	B 249.677†	21728.8	22170.6	506.72 ug/L	506.72 ppb	01:15:14
3	Ba 233.527†	63017.4	63325.9	514.89 ug/L	514.89 ppb	01:15:14
3	Be 313.107†	1406386.9	1417708.1	518.45 ug/L	518.45 ppb	01:15:09
3	Cd 226.502†	45588.5	45983.4	516.27 ug/L	516.27 ppb	01:15:14
3	Co 228.616†	24239.4	24420.8	516.20 ug/L	516.20 ppb	01:15:14
3	Cr 267.716†	48306.4	48461.0	513.38 ug/L	513.38 ppb	01:15:14
3	Cu 324.752†	188086.9	179988.6	508.15 ug/L	508.15 ppb	01:15:14
3	Mn 257.610†	460893.6	462459.8	520.04 ug/L	520.04 ppb	01:15:09
3	Mo 202.031†	7368.4	7391.9	508.09 ug/L	508.09 ppb	01:15:34
3	Ni 231.604†	21301.7	21320.0	515.73 ug/L	515.73 ppb	01:15:14
3	P 214.914†	4815.0	4588.6	2437.1 ug/L	2437.1 ppb	01:15:34
3	Pb 220.353†	4151.3	4215.7	508.48 ug/L	508.48 ppb	01:15:34
3	S 181.975 Axial†	807.0	768.0	1030.5 ug/L	1030.5 ppb	01:15:34
3	Sb 206.836†	1615.5	1588.2	528.36 ug/L	528.36 ppb	01:15:34
3	Se 196.026†	908.1	936.0	531.78 ug/L	531.78 ppb	01:15:34
3	Si 251.611†	84099.5	84085.7	2562.3 ug/L	2562.3 ppb	01:15:14
3	Sn 189.927†	2762.3	2774.0	504.04 ug/L	504.04 ppb	01:15:34
3	Ti 334.940†	339115.7	341702.2	518.12 ug/L	518.12 ppb	01:15:09
3	Tl 190.801†	1532.5	1584.7	516.38 ug/L	516.38 ppb	01:15:34
3	U 409.014†	17388.2	20262.6	515.55 ug/L	515.55 ppb	01:15:14
3	V 292.402†	76838.8	78661.2	518.60 ug/L	518.60 ppb	01:15:14
3	Zn 213.857†	56816.3	56158.8	508.16 ug/L	508.16 ppb	01:15:14
3	SiO2†	83431.1	83420.1	5426.9 ug/L	5426.9 ppb	01:15:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	980556.6	98.848 %	1.3318			1.35%
Sc Radial	5471.6	104 %	0.6			0.60%
Y 371.029	841533.4	97.857 %	1.2658			1.29%
Y RADIAL	5733.4	103.8 %	0.97			0.93%
Ag 328.068†	122067.2	521.30 ug/L	8.404	521.30 ppb	8.404	1.61%
QC value within limits for Ag 328.068 Recovery = 104.26%						
Al 396.153Radial†	6137.9	4933.4 ug/L	11.56	4933.4 ppb	11.56	0.23%
QC value within limits for Al 396.153Radial Recovery = 98.67%						
As 188.979†	1250.3	518.45 ug/L	6.278	518.45 ppb	6.278	1.21%
QC value within limits for As 188.979 Recovery = 103.69%						
B 249.677†	22407.9	512.15 ug/L	6.742	512.15 ppb	6.742	1.32%
QC value within limits for B 249.677 Recovery = 102.43%						
Ba 233.527†	64061.3	520.86 ug/L	7.413	520.86 ppb	7.413	1.42%
QC value within limits for Ba 233.527 Recovery = 104.17%						
Be 313.107†	1419844.5	519.23 ug/L	0.677	519.23 ppb	0.677	0.13%
QC value within limits for Be 313.107 Recovery = 103.85%						
Ca 317.933Radial†	3046.1	5070.6 ug/L	19.61	5070.6 ppb	19.61	0.39%

QC value within limits for Ca 317.933 Radial Recovery = 101.41%							
Cd 226.502†	46349.7	520.39 ug/L	7.150	520.39 ppb	7.150	1.37%	
QC value within limits for Cd 226.502 Recovery = 104.08%							
Co 228.616†	24662.2	521.31 ug/L	7.277	521.31 ppb	7.277	1.40%	
QC value within limits for Co 228.616 Recovery = 104.26%							
Cr 267.716†	49010.9	519.21 ug/L	8.089	519.21 ppb	8.089	1.56%	
QC value within limits for Cr 267.716 Recovery = 103.84%							
Cu 324.752†	183058.0	516.81 ug/L	8.881	516.81 ppb	8.881	1.72%	
QC value within limits for Cu 324.752 Recovery = 103.36%							
Fe 238.204 Radial†	540.8	5201.1 ug/L	19.59	5201.1 ppb	19.59	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 104.02%							
K 766.490 Radial†	28374.9	5117.4 ug/L	10.76	5117.4 ppb	10.76	0.21%	
QC value within limits for K 766.490 Radial Recovery = 102.35%							
Mg 279.077 IEC†	137.6	5254.7 ug/L	14.58	5254.7 ppb	14.58	0.28%	
QC value within limits for Mg 279.077 IEC Recovery = 105.09%							
Mn 257.610†	462491.5	520.07 ug/L	0.308	520.07 ppb	0.308	0.06%	
QC value within limits for Mn 257.610 Recovery = 104.01%							
Mo 202.031†	7463.8	513.02 ug/L	6.563	513.02 ppb	6.563	1.28%	
QC value within limits for Mo 202.031 Recovery = 102.60%							
Na 589.592 Radial†	33103.4	10081 ug/L	37.0	10081 ppb	37.0	0.37%	
QC value within limits for Na 589.592 Radial Recovery = 100.81%							
Ni 231.604†	21509.6	520.32 ug/L	7.284	520.32 ppb	7.284	1.40%	
QC value within limits for Ni 231.604 Recovery = 104.06%							
P 214.914†	4624.8	2455.4 ug/L	33.31	2455.4 ppb	33.31	1.36%	
QC value within limits for P 214.914 Recovery = 98.21%							
Pb 220.353†	4268.8	514.86 ug/L	7.764	514.86 ppb	7.764	1.51%	
QC value within limits for Pb 220.353 Recovery = 102.97%							
S 181.975 Axial†	774.4	1039.1 ug/L	9.40	1039.1 ppb	9.40	0.90%	
QC value within limits for S 181.975 Axial Recovery = 103.91%							
Sb 206.836†	1597.3	531.51 ug/L	5.446	531.51 ppb	5.446	1.02%	
QC value within limits for Sb 206.836 Recovery = 106.30%							
Se 196.026†	940.5	534.27 ug/L	6.653	534.27 ppb	6.653	1.25%	
QC value within limits for Se 196.026 Recovery = 106.85%							
Si 251.611†	85047.8	2591.7 ug/L	35.86	2591.7 ppb	35.86	1.38%	
QC value within limits for Si 251.611 Recovery = 103.67%							
Sn 189.927†	2805.1	509.69 ug/L	5.833	509.69 ppb	5.833	1.14%	
QC value within limits for Sn 189.927 Recovery = 101.94%							
Sr 421.552†	82343.2	507.14 ug/L	0.780	507.14 ppb	0.780	0.15%	
QC value within limits for Sr 421.552 Recovery = 101.43%							
Ti 334.940†	341730.4	518.16 ug/L	0.264	518.16 ppb	0.264	0.05%	
QC value within limits for Ti 334.940 Recovery = 103.63%							
Tl 190.801†	1596.8	520.28 ug/L	6.594	520.28 ppb	6.594	1.27%	
QC value within limits for Tl 190.801 Recovery = 104.06%							
U 409.014†	20471.6	520.87 ug/L	5.333	520.87 ppb	5.333	1.02%	
QC value within limits for U 409.014 Recovery = 104.17%							
V 292.402†	79570.1	524.59 ug/L	8.375	524.59 ppb	8.375	1.60%	
QC value within limits for V 292.402 Recovery = 104.92%							
Zn 213.857†	56850.0	514.42 ug/L	8.165	514.42 ppb	8.165	1.59%	
QC value within limits for Zn 213.857 Recovery = 102.88%							
SiO2†	84621.0	5505.1 ug/L	97.66	5505.1 ppb	97.66	1.77%	
QC value within limits for SiO2 Recovery = 102.95%							
All analyte(s) passed QC.							

Sequence No.: 68

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/30/2010 01:17:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5434.4	5434.4	103 %		01:19:51
1	Y RADIAL	5713.3	5713.3	103.4 %		01:19:51
1	Al 396.153Radial†	-114.5	-4.2	-3.3812 ug/L	-3.3812 ppb	01:20:11
1	Ca 317.933Radial†	15.5	-5.6	-9.3681 ug/L	-9.3681 ppb	01:20:11
1	Fe 238.204 Radial†	10.3	-0.0	-0.3685 ug/L	-0.3685 ppb	01:20:11
1	K 766.490 Radial†	2733.3	-8.2	-1.4729 ug/L	-1.4729 ppb	01:19:51
1	Mg 279.077 IEC†	3.1	1.6	62.964 ug/L	62.964 ppb	01:20:11
1	Na 589.592 Radial†	-670.9	-63.5	-19.346 ug/L	-19.346 ppb	01:19:51
1	Sr 421.552†	74.5	5.5	0.0341 ug/L	0.0341 ppb	01:19:51
1	Sc 361.383	942282.4	942282.4	94.990 %		01:21:08
1	Y 371.029	821842.1	821842.1	95.568 %		01:21:08
1	Ag 328.068†	385.0	30.8	0.1291 ug/L	0.1291 ppb	01:21:08
1	As 188.979†	-34.3	0.4	0.1729 ug/L	0.1729 ppb	01:21:28
1	B 249.677†	-181.8	149.7	3.4394 ug/L	3.4394 ppb	01:21:28
1	Ba 233.527†	-20.4	-5.0	-0.0423 ug/L	-0.0423 ppb	01:21:28
1	Be 313.107†	-4610.1	-50.8	-0.0185 ug/L	-0.0185 ppb	01:21:08
1	Cd 226.502†	-171.0	3.5	0.0393 ug/L	0.0393 ppb	01:21:28
1	Co 228.616†	-86.8	-22.3	-0.4708 ug/L	-0.4708 ppb	01:21:28
1	Cr 267.716†	66.9	1.1	0.0116 ug/L	0.0116 ppb	01:21:28
1	Cu 324.752†	8775.5	268.3	0.7580 ug/L	0.7580 ppb	01:21:08
1	Mn 257.610†	612.5	74.6	0.0812 ug/L	0.0812 ppb	01:21:28
1	Mo 202.031†	10.3	0.3	0.0210 ug/L	0.0210 ppb	01:21:28
1	Ni 231.604†	97.3	22.0	0.5330 ug/L	0.5330 ppb	01:21:28
1	P 214.914†	245.3	9.6	5.1327 ug/L	5.1327 ppb	01:21:28
1	Pb 220.353†	-56.0	-13.8	-1.6575 ug/L	-1.6575 ppb	01:21:28
1	S 181.975 Axial†	44.8	4.4	5.9564 ug/L	5.9564 ppb	01:21:28
1	Sb 206.836†	37.6	4.8	1.5367 ug/L	1.5367 ppb	01:21:28
1	Se 196.026†	-12.8	10.2	5.5937 ug/L	5.5937 ppb	01:21:28
1	Si 251.611†	490.0	112.2	3.4277 ug/L	3.4277 ppb	01:21:28
1	Sn 189.927†	2.9	1.9	0.3450 ug/L	0.3450 ppb	01:21:28
1	Ti 334.940†	-955.8	8.5	0.0069 ug/L	0.0069 ppb	01:21:08
1	Tl 190.801†	-44.7	-2.1	-0.6606 ug/L	-0.6606 ppb	01:21:28
1	U 409.014†	-2695.5	-43.9	-1.1210 ug/L	-1.1210 ppb	01:21:08
1	V 292.402†	-1480.4	-92.3	-0.6011 ug/L	-0.6011 ppb	01:21:08
1	Zn 213.857†	1004.9	137.1	1.2470 ug/L	1.2470 ppb	01:21:28
1	SiO2†	508.1	137.2	8.9488 ug/L	8.9488 ppb	01:22:39
2	Sc Radial	5506.9	5506.9	104 %		01:20:16
2	Y RADIAL	5787.8	5787.8	104.8 %		01:20:16
2	Al 396.153Radial†	-126.4	-14.2	-11.513 ug/L	-11.513 ppb	01:20:36
2	Ca 317.933Radial†	21.6	-0.0	-0.0376 ug/L	-0.0376 ppb	01:20:36
2	Fe 238.204 Radial†	8.4	-2.0	-19.534 ug/L	-19.534 ppb	01:20:36
2	K 766.490 Radial†	2639.7	-132.8	-23.980 ug/L	-23.980 ppb	01:20:16
2	Mg 279.077 IEC†	1.4	0.0	0.1093 ug/L	0.1093 ppb	01:20:36
2	Na 589.592 Radial†	-699.8	-82.6	-25.158 ug/L	-25.158 ppb	01:20:16
2	Sr 421.552†	62.3	-7.1	-0.0435 ug/L	-0.0435 ppb	01:20:16
2	Sc 361.383	953704.0	953704.0	96.141 %		01:21:33
2	Y 371.029	833326.0	833326.0	96.903 %		01:21:33
2	Ag 328.068†	368.6	8.9	0.0240 ug/L	0.0240 ppb	01:21:33
2	As 188.979†	-38.0	-3.0	-1.2320 ug/L	-1.2320 ppb	01:21:53
2	B 249.677†	-191.6	141.8	3.2591 ug/L	3.2591 ppb	01:21:53
2	Ba 233.527†	-24.7	-9.3	-0.0776 ug/L	-0.0776 ppb	01:21:53
2	Be 313.107†	-4652.8	-37.1	-0.0136 ug/L	-0.0136 ppb	01:21:33
2	Cd 226.502†	-183.9	-7.7	-0.0839 ug/L	-0.0839 ppb	01:21:53
2	Co 228.616†	-76.4	-10.4	-0.2186 ug/L	-0.2186 ppb	01:21:53
2	Cr 267.716†	77.7	11.5	0.1185 ug/L	0.1185 ppb	01:21:53
2	Cu 324.752†	8811.3	194.9	0.5466 ug/L	0.5466 ppb	01:21:33
2	Mn 257.610†	593.5	47.2	0.0511 ug/L	0.0511 ppb	01:21:53
2	Mo 202.031†	22.3	12.6	0.8635 ug/L	0.8635 ppb	01:21:53
2	Ni 231.604†	85.4	8.3	0.2015 ug/L	0.2015 ppb	01:21:53

2	P 214.914†	234.9	-4.3	-2.4676 ug/L	-2.4676 ppb	01:21:53
2	Pb 220.353†	-34.8	9.0	1.0784 ug/L	1.0784 ppb	01:21:53
2	S 181.975 Axial†	45.9	5.0	6.6719 ug/L	6.6719 ppb	01:21:53
2	Sb 206.836†	42.3	9.2	2.9666 ug/L	2.9666 ppb	01:21:53
2	Se 196.026†	-19.2	3.7	1.9790 ug/L	1.9790 ppb	01:21:53
2	Si 251.611†	485.3	101.1	3.0775 ug/L	3.0775 ppb	01:21:53
2	Sn 189.927†	4.2	3.3	0.5954 ug/L	0.5954 ppb	01:21:53
2	Ti 334.940†	-982.1	-6.8	-0.0125 ug/L	-0.0125 ppb	01:21:33
2	Tl 190.801†	-41.2	2.2	0.7069 ug/L	0.7069 ppb	01:21:53
2	U 409.014†	-2506.9	186.2	4.7565 ug/L	4.7565 ppb	01:21:33
2	V 292.402†	-1534.7	-130.0	-0.8219 ug/L	-0.8219 ppb	01:21:33
2	Zn 213.857†	996.9	116.1	1.0600 ug/L	1.0600 ppb	01:21:53
2	SiO2†	515.1	138.1	8.9821 ug/L	8.9821 ppb	01:22:59
3	Sc Radial	5495.0	5495.0	104 %		01:20:41
3	Y RADIAL	5765.8	5765.8	104.4 %		01:20:41
3	Al 396.153Radial†	-122.7	-10.9	-8.8311 ug/L	-8.8311 ppb	01:21:01
3	Ca 317.933Radial†	21.8	0.2	0.3838 ug/L	0.3838 ppb	01:21:01
3	Fe 238.204 Radial†	10.5	0.0	0.2634 ug/L	0.2634 ppb	01:21:01
3	K 766.490 Radial†	2684.0	-84.8	-15.303 ug/L	-15.303 ppb	01:20:41
3	Mg 279.077 IEC†	1.8	0.4	13.757 ug/L	13.757 ppb	01:21:01
3	Na 589.592 Radial†	-724.1	-107.4	-32.709 ug/L	-32.709 ppb	01:20:41
3	Sr 421.552†	55.5	-13.5	-0.0829 ug/L	-0.0829 ppb	01:20:41
3	Sc 361.383	948252.5	948252.5	95.591 %		01:21:58
3	Y 371.029	827174.5	827174.5	96.188 %		01:21:58
3	Ag 328.068†	448.4	94.6	0.3986 ug/L	0.3986 ppb	01:21:58
3	As 188.979†	-33.9	1.1	0.4492 ug/L	0.4492 ppb	01:22:19
3	B 249.677†	-231.5	98.9	2.2705 ug/L	2.2705 ppb	01:22:19
3	Ba 233.527†	-26.9	-11.7	-0.0965 ug/L	-0.0965 ppb	01:22:19
3	Be 313.107†	-4638.7	-50.2	-0.0183 ug/L	-0.0183 ppb	01:21:58
3	Cd 226.502†	-169.7	6.0	0.0673 ug/L	0.0673 ppb	01:22:19
3	Co 228.616†	-69.5	-3.7	-0.0761 ug/L	-0.0761 ppb	01:22:19
3	Cr 267.716†	55.2	-11.5	-0.1228 ug/L	-0.1228 ppb	01:22:19
3	Cu 324.752†	8837.0	274.4	0.7745 ug/L	0.7745 ppb	01:21:58
3	Mn 257.610†	606.0	63.8	0.0712 ug/L	0.0712 ppb	01:22:19
3	Mo 202.031†	20.5	10.9	0.7459 ug/L	0.7459 ppb	01:22:19
3	Ni 231.604†	86.6	10.2	0.2465 ug/L	0.2465 ppb	01:22:19
3	P 214.914†	261.5	24.9	13.608 ug/L	13.608 ppb	01:22:19
3	Pb 220.353†	-38.6	4.7	0.5671 ug/L	0.5671 ppb	01:22:19
3	S 181.975 Axial†	38.5	-2.5	-3.3084 ug/L	-3.3084 ppb	01:22:19
3	Sb 206.836†	36.4	3.2	1.0640 ug/L	1.0640 ppb	01:22:19
3	Se 196.026†	-10.8	12.4	6.7836 ug/L	6.7836 ppb	01:22:19
3	Si 251.611†	491.9	110.9	3.3795 ug/L	3.3795 ppb	01:22:19
3	Sn 189.927†	9.4	8.8	1.5897 ug/L	1.5897 ppb	01:22:19
3	Ti 334.940†	-970.0	-0.1	-0.0014 ug/L	-0.0014 ppb	01:21:58
3	Tl 190.801†	-37.2	6.2	1.9973 ug/L	1.9973 ppb	01:22:19
3	U 409.014†	-2646.9	24.8	0.6337 ug/L	0.6337 ppb	01:21:58
3	V 292.402†	-1487.1	-89.5	-0.5703 ug/L	-0.5703 ppb	01:21:58
3	Zn 213.857†	1003.3	128.8	1.1733 ug/L	1.1733 ppb	01:22:19
3	SiO2†	519.5	145.8	9.4862 ug/L	9.4862 ppb	01:23:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	948079.6	95.574 %		0.5759			0.60%
Sc Radial	5478.8	104 %		0.7			0.71%
Y 371.029	827447.5	96.219 %		0.6683			0.69%
Y RADIAL	5755.7	104.2 %		0.69			0.67%
Ag 328.068†	44.7	0.1839 ug/L		0.19323	0.1839 ppb	0.19323	105.08%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-9.8	-7.9085 ug/L		4.14374	-7.9085 ppb	4.14374	52.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.5	-0.2033 ug/L		0.90150	-0.2033 ppb	0.90150	443.41%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	130.1	2.9897 ug/L		0.62932	2.9897 ppb	0.62932	21.05%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-8.7	-0.0721 ug/L		0.02751	-0.0721 ppb	0.02751	38.14%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-46.0	-0.0168 ug/L		0.00280	-0.0168 ppb	0.00280	16.66%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.8	-3.0073 ug/L		5.51264	-3.0073 ppb	5.51264	183.31%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	0.6	0.0076 ug/L	0.08044	0.0076 ppb	0.08044	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-12.1	-0.2552 ug/L	0.19989	-0.2552 ppb	0.19989	78.33%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.4	0.0024 ug/L	0.12092	0.0024 ppb	0.12092	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	245.9	0.6930 ug/L	0.12711	0.6930 ppb	0.12711	18.34%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.7	-6.5463 ug/L	11.25192	-6.5463 ppb	11.25192	171.88%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-75.3	-13.585 ug/L	11.3513	-13.585 ppb	11.3513	83.56%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.7	25.610 ug/L	33.0614	25.610 ppb	33.0614	129.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	61.9	0.0678 ug/L	0.01535	0.0678 ppb	0.01535	22.63%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.9	0.5435 ug/L	0.45630	0.5435 ppb	0.45630	83.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-84.5	-25.738 ug/L	6.7005	-25.738 ppb	6.7005	26.03%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	13.5	0.3270 ug/L	0.17980	0.3270 ppb	0.17980	54.98%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	10.0	5.4242 ug/L	8.04153	5.4242 ppb	8.04153	148.25%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-0.0	-0.0040 ug/L	1.45460	-0.0040 ppb	1.45460	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.3	3.1067 ug/L	5.56708	3.1067 ppb	5.56708	179.20%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.7	1.8558 ug/L	0.99064	1.8558 ppb	0.99064	53.38%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	8.8	4.7854 ug/L	2.50219	4.7854 ppb	2.50219	52.29%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	108.1	3.2949 ug/L	0.18981	3.2949 ppb	0.18981	5.76%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.7	0.8434 ug/L	0.65836	0.8434 ppb	0.65836	78.06%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-5.0	-0.0308 ug/L	0.05955	-0.0308 ppb	0.05955	193.52%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	0.5	-0.0023 ug/L	0.00974	-0.0023 ppb	0.00974	419.89%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.1	0.6812 ug/L	1.32914	0.6812 ppb	1.32914	195.12%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	55.7	1.4231 ug/L	3.01717	1.4231 ppb	3.01717	212.02%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-103.9	-0.6644 ug/L	0.13726	-0.6644 ppb	0.13726	20.66%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	127.4	1.1601 ug/L	0.09419	1.1601 ppb	0.09419	8.12%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	140.4	9.1390 ug/L	0.30108	9.1390 ppb	0.30108	3.29%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 69
 Sample ID: 244628010|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 77
 Date Collected: 1/30/2010 01:25:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628010|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5554.5	5554.5	105 %		01:27:43
1	Y RADIAL	6691.6	6691.6	121.2 %		01:27:43
1	Al 396.153Radial†	99015.1	94133.4	76041 ug/L	76041 ppb	01:27:23
1	Ca 317.933Radial†	26179.9	24840.2	41350 ug/L	41350 ppb	01:27:23
1	Fe 238.204 Radial†	10643.1	10096.8	96817 ug/L	96817 ppb	01:27:23
1	K 766.490 Radial†	75126.3	68680.1	12387 ug/L	12387 ppb	01:27:23
1	Mg 279.077 IEC†	409.9	387.9	14709 ug/L	14709 ppb	01:27:43
1	Na 589.592 Radial†	1383.7	1901.7	579.14 ug/L	579.14 ppb	01:27:23
1	Sr 421.552†	50679.1	48059.0	295.70 ug/L	295.70 ppb	01:27:23
1	Sc 361.383	989410.2	989410.2	99.740 %		01:28:40
1	Y 371.029	976628.3	976628.3	113.57 %		01:28:40
1	Ag 328.068†	-6122.6	-6513.1	3.9589 ug/L	3.9589 ppb	01:28:46
1	As 188.979†	-55.8	-19.4	38.550 ug/L	38.550 ppb	01:29:06
1	B 249.677†	2070.7	2417.2	39.678 ug/L	39.678 ppb	01:28:46
1	Ba 233.527†	117979.5	118303.0	962.82 ug/L	962.82 ppb	01:28:46
1	Be 313.107†	-3538.7	1254.5	6.7127 ug/L	6.7127 ppb	01:28:46
1	Cd 226.502†	855.5	1041.3	1.7195 ug/L	1.7195 ppb	01:29:06
1	Co 228.616†	1549.5	1622.6	27.537 ug/L	27.537 ppb	01:29:06
1	Cr 267.716†	11454.1	11414.7	122.96 ug/L	122.96 ppb	01:28:46
1	Cu 324.752†	35655.0	26777.7	80.798 ug/L	80.798 ppb	01:28:46
1	Mn 257.610†	2366513.2	2372103.2	2674.9 ug/L	2674.9 ppb	01:28:40
1	Mo 202.031†	31.9	21.4	9.4764 ug/L	9.4764 ppb	01:29:06
1	Ni 231.604†	3443.5	3372.0	81.597 ug/L	81.597 ppb	01:29:06
1	P 214.914†	3043.0	2802.3	1474.5 ug/L	1474.5 ppb	01:29:06
1	Pb 220.353†	966.7	1014.4	129.69 ug/L	129.69 ppb	01:29:06
1	S 181.975 Axial†	1560.8	1522.2	2030.0 ug/L	2030.0 ppb	01:29:06
1	Sb 206.836†	67.1	32.4	1.7597 ug/L	1.7597 ppb	01:29:06
1	Se 196.026†	-456.0	-433.5	87.518 ug/L	87.518 ppb	01:29:06
1	Si 251.611†	936722.9	938757.6	28677 ug/L	28677 ppb	01:28:40
1	Sn 189.927†	-181.8	-183.4	-25.354 ug/L	-25.354 ppb	01:29:06
1	Ti 334.940†	1810761.0	1816489.2	2759.5 ug/L	2759.5 ppb	01:28:40
1	Tl 190.801†	-173.2	-128.6	-6.5039 ug/L	-6.5039 ppb	01:29:06
1	U 409.014†	-7873.1	-5099.8	-141.50 ug/L	-141.50 ppb	01:28:40
1	V 292.402†	25112.7	26644.3	156.36 ug/L	156.36 ppb	01:28:46
1	Zn 213.857†	36324.4	35498.1	314.02 ug/L	314.02 ppb	01:28:46
1	SiO2†	938619.8	940665.4	61351 ug/L	61351 ppb	01:30:14
2	Sc Radial	5505.5	5505.5	104 %		01:28:08
2	Y RADIAL	6642.3	6642.3	120.3 %		01:28:08
2	Al 396.153Radial†	99732.0	95657.1	77272 ug/L	77272 ppb	01:27:48
2	Ca 317.933Radial†	26391.7	25264.4	42056 ug/L	42056 ppb	01:27:48
2	Fe 238.204 Radial†	10664.2	10207.0	97873 ug/L	97873 ppb	01:27:48
2	K 766.490 Radial†	75758.5	69920.7	12611 ug/L	12611 ppb	01:27:48
2	Mg 279.077 IEC†	408.6	390.1	14791 ug/L	14791 ppb	01:28:08
2	Na 589.592 Radial†	1373.6	1903.6	579.75 ug/L	579.75 ppb	01:27:48
2	Sr 421.552†	50931.2	48728.9	299.82 ug/L	299.82 ppb	01:27:48
2	Sc 361.383	986526.6	986526.6	99.450 %		01:29:12
2	Y 371.029	973683.2	973683.2	113.22 %		01:29:12
2	Ag 328.068†	-6106.6	-6514.9	4.2777 ug/L	4.2777 ppb	01:29:17
2	As 188.979†	-51.0	-14.8	40.676 ug/L	40.676 ppb	01:29:37
2	B 249.677†	2177.3	2530.5	42.107 ug/L	42.107 ppb	01:29:17
2	Ba 233.527†	117088.8	117753.1	958.39 ug/L	958.39 ppb	01:29:17
2	Be 313.107†	-3636.1	1146.2	6.6649 ug/L	6.6649 ppb	01:29:17
2	Cd 226.502†	860.8	1049.1	1.6982 ug/L	1.6982 ppb	01:29:37
2	Co 228.616†	1539.4	1617.0	27.411 ug/L	27.411 ppb	01:29:37
2	Cr 267.716†	11349.1	11342.6	122.21 ug/L	122.21 ppb	01:29:17
2	Cu 324.752†	35583.6	26810.4	80.945 ug/L	80.945 ppb	01:29:17
2	Mn 257.610†	2353401.3	2365854.0	2668.0 ug/L	2668.0 ppb	01:29:12
2	Mo 202.031†	41.9	31.6	10.266 ug/L	10.266 ppb	01:29:37
2	Ni 231.604†	3410.8	3349.2	81.045 ug/L	81.045 ppb	01:29:37

2	P 214.914†	3052.5	2820.8	1484.2 ug/L	1484.2 ppb	01:29:37
2	Pb 220.353†	983.2	1033.8	132.20 ug/L	132.20 ppb	01:29:37
2	S 181.975 Axial†	1553.1	1519.0	2025.5 ug/L	2025.5 ppb	01:29:37
2	Sb 206.836†	71.2	36.7	3.1766 ug/L	3.1766 ppb	01:29:37
2	Se 196.026†	-453.5	-432.3	91.747 ug/L	91.747 ppb	01:29:37
2	Si 251.611†	932884.9	937643.5	28642 ug/L	28642 ppb	01:29:12
2	Sn 189.927†	-175.3	-177.4	-24.147 ug/L	-24.147 ppb	01:29:37
2	Ti 334.940†	1803092.6	1814084.9	2756.0 ug/L	2756.0 ppb	01:29:12
2	Tl 190.801†	-171.5	-127.4	-6.1730 ug/L	-6.1730 ppb	01:29:37
2	U 409.014†	-7766.0	-5015.2	-139.46 ug/L	-139.46 ppb	01:29:12
2	V 292.402†	24884.6	26488.6	155.21 ug/L	155.21 ppb	01:29:17
2	Zn 213.857†	36162.6	35441.9	313.41 ug/L	313.41 ppb	01:29:17
2	SiO2†	940764.6	945572.8	61671 ug/L	61671 ppb	01:30:20
3	Sc Radial	5525.3	5525.3	105 %		01:28:33
3	Y RADIAL	6657.7	6657.7	120.5 %		01:28:33
3	Al 396.153Radial†	97895.4	93560.7	75579 ug/L	75579 ppb	01:28:13
3	Ca 317.933Radial†	25822.2	24629.9	41000 ug/L	41000 ppb	01:28:13
3	Fe 238.204 Radial†	10483.1	9997.4	95864 ug/L	95864 ppb	01:28:13
3	K 766.490 Radial†	74463.4	68423.7	12341 ug/L	12341 ppb	01:28:13
3	Mg 279.077 IEC†	406.3	386.5	14658 ug/L	14658 ppb	01:28:33
3	Na 589.592 Radial†	1317.4	1845.3	561.97 ug/L	561.97 ppb	01:28:13
3	Sr 421.552†	49820.0	47492.9	292.22 ug/L	292.22 ppb	01:28:13
3	Sc 361.383	990864.5	990864.5	99.887 %		01:29:43
3	Y 371.029	980412.3	980412.3	114.01 %		01:29:43
3	Ag 328.068†	-6138.5	-6520.0	3.6265 ug/L	3.6265 ppb	01:29:48
3	As 188.979†	-46.9	-10.4	41.977 ug/L	41.977 ppb	01:30:08
3	B 249.677†	2074.4	2417.8	39.847 ug/L	39.847 ppb	01:29:48
3	Ba 233.527†	118638.6	118789.2	966.73 ug/L	966.73 ppb	01:29:48
3	Be 313.107†	-3786.9	1011.3	6.6086 ug/L	6.6086 ppb	01:29:48
3	Cd 226.502†	853.8	1038.3	1.7853 ug/L	1.7853 ppb	01:30:08
3	Co 228.616†	1562.0	1632.8	27.781 ug/L	27.781 ppb	01:30:08
3	Cr 267.716†	11476.2	11419.9	122.99 ug/L	122.99 ppb	01:29:48
3	Cu 324.752†	35915.6	26986.2	81.334 ug/L	81.334 ppb	01:29:48
3	Mn 257.610†	2356610.5	2358706.9	2659.7 ug/L	2659.7 ppb	01:29:43
3	Mo 202.031†	29.1	18.5	9.2033 ug/L	9.2033 ppb	01:30:08
3	Ni 231.604†	3457.5	3381.0	81.814 ug/L	81.814 ppb	01:30:08
3	P 214.914†	3051.4	2806.2	1477.3 ug/L	1477.3 ppb	01:30:08
3	Pb 220.353†	983.3	1029.6	131.50 ug/L	131.50 ppb	01:30:08
3	S 181.975 Axial†	1550.0	1509.0	2012.4 ug/L	2012.4 ppb	01:30:08
3	Sb 206.836†	77.6	42.9	5.1568 ug/L	5.1568 ppb	01:30:08
3	Se 196.026†	-455.7	-432.5	84.865 ug/L	84.865 ppb	01:30:08
3	Si 251.611†	934936.8	935591.0	28580 ug/L	28580 ppb	01:29:43
3	Sn 189.927†	-172.3	-173.6	-23.643 ug/L	-23.643 ppb	01:30:08
3	Ti 334.940†	1808978.5	1812040.1	2752.7 ug/L	2752.7 ppb	01:29:43
3	Tl 190.801†	-178.0	-133.1	-8.0851 ug/L	-8.0851 ppb	01:30:08
3	U 409.014†	-7716.0	-4930.9	-137.08 ug/L	-137.08 ppb	01:29:43
3	V 292.402†	25310.3	26805.1	157.56 ug/L	157.56 ppb	01:29:48
3	Zn 213.857†	36619.7	35740.3	316.32 ug/L	316.32 ppb	01:29:48
3	SiO2†	940080.1	940746.1	61356 ug/L	61356 ppb	01:30:26

Mean Data: 244628010|941795|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	988933.8	99.692 %		0.2226			0.22%
Sc Radial	5528.4	105 %		0.5			0.45%
Y 371.029	976907.9	113.60 %		0.392			0.35%
Y RADIAL	6663.9	120.7 %		0.46			0.38%
Ag 328.068†	-6516.0	3.9544 ug/L		0.32560	3.9544 ppb	0.32560	8.23%
Al 396.153Radial†	94450.4	76298 ug/L		875.3	76298 ppb	875.3	1.15%
As 188.979†	-14.9	40.401 ug/L		1.7300	40.401 ppb	1.7300	4.28%
B 249.677†	2455.2	40.544 ug/L		1.3564	40.544 ppb	1.3564	3.35%
Ba 233.527†	118281.8	962.65 ug/L		4.176	962.65 ppb	4.176	0.43%
Be 313.107†	1137.4	6.6621 ug/L		0.05209	6.6621 ppb	0.05209	0.78%
Ca 317.933Radial†	24911.5	41469 ug/L		538.0	41469 ppb	538.0	1.30%
Cd 226.502†	1042.9	1.7343 ug/L		0.04543	1.7343 ppb	0.04543	2.62%
Co 228.616†	1624.1	27.576 ug/L		0.1885	27.576 ppb	0.1885	0.68%
Cr 267.716†	11392.4	122.72 ug/L		0.441	122.72 ppb	0.441	0.36%
Cu 324.752†	26858.1	81.026 ug/L		0.2768	81.026 ppb	0.2768	0.34%
Fe 238.204 Radial†	10100.4	96851 ug/L		1005.3	96851 ppb	1005.3	1.04%
K 766.490 Radial†	69008.2	12446 ug/L		144.4	12446 ppb	144.4	1.16%

Mg 279.077 IEC†	388.2	14719 ug/L	67.2	14719 ppb	67.2	0.46%
Mn 257.610†	2365554.7	2667.5 ug/L	7.58	2667.5 ppb	7.58	0.28%
Mo 202.031†	23.8	9.6484 ug/L	0.55165	9.6484 ppb	0.55165	5.72%
Na 589.592 Radial†	1883.5	573.62 ug/L	10.094	573.62 ppb	10.094	1.76%
Ni 231.604†	3367.4	81.485 ug/L	0.3965	81.485 ppb	0.3965	0.49%
P 214.914†	2809.8	1478.7 ug/L	4.98	1478.7 ppb	4.98	0.34%
Pb 220.353†	1025.9	131.13 ug/L	1.296	131.13 ppb	1.296	0.99%
S 181.975 Axial†	1516.7	2022.6 ug/L	9.12	2022.6 ppb	9.12	0.45%
Sb 206.836†	37.3	3.3644 ug/L	1.70629	3.3644 ppb	1.70629	50.72%
Se 196.026†	-432.7	88.043 ug/L	3.4709	88.043 ppb	3.4709	3.94%
Si 251.611†	937330.7	28633 ug/L	49.1	28633 ppb	49.1	0.17%
Sn 189.927†	-178.1	-24.382 ug/L	0.8791	-24.382 ppb	0.8791	3.61%
Sr 421.552†	48093.6	295.91 ug/L	3.807	295.91 ppb	3.807	1.29%
Ti 334.940†	1814204.7	2756.1 ug/L	3.40	2756.1 ppb	3.40	0.12%
Tl 190.801†	-129.7	-6.9207 ug/L	1.02190	-6.9207 ppb	1.02190	14.77%
U 409.014†	-5015.3	-139.35 ug/L	2.213	-139.35 ppb	2.213	1.59%
V 292.402†	26646.0	156.38 ug/L	1.172	156.38 ppb	1.172	0.75%
Zn 213.857†	35560.1	314.59 ug/L	1.536	314.59 ppb	1.536	0.49%
SiO2†	942328.1	61459 ug/L	183.3	61459 ppb	183.3	0.30%

Sequence No.: 70

Sample ID: 244628011|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 78

Date Collected: 1/30/2010 01:32:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628011|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5634.0	5634.0	107 %		01:34:31
1	Y RADIAL	7206.0	7206.0	130.5 %		01:34:31
1	Al 396.153Radial†	28809.9	27079.3	21875 ug/L	21875 ppb	01:34:31
1	Ca 317.933Radial†	4234.1	3943.4	6564.3 ug/L	6564.3 ppb	01:34:31
1	Fe 238.204 Radial†	9795.7	9160.8	87841 ug/L	87841 ppb	01:34:31
1	K 766.490 Radial†	25844.1	21534.5	3885.2 ug/L	3885.2 ppb	01:34:31
1	Mg 279.077 IEC†	121.7	112.6	4206.2 ug/L	4206.2 ppb	01:34:51
1	Na 589.592 Radial†	1225.8	1735.2	528.46 ug/L	528.46 ppb	01:34:31
1	Sr 421.552†	8013.4	7435.6	45.749 ug/L	45.749 ppb	01:34:31
1	Sc 361.383	1005436.9	1005436.9	101.36 %		01:35:49
1	Y 371.029	1058477.6	1058477.6	123.08 %		01:35:49
1	Ag 328.068†	-5665.6	-5964.3	3.5610 ug/L	3.5610 ppb	01:35:54
1	As 188.979†	-67.5	-30.1	30.363 ug/L	30.363 ppb	01:36:14
1	B 249.677†	634.0	966.6	7.8820 ug/L	7.8820 ppb	01:35:54
1	Ba 233.527†	31151.3	30750.9	252.26 ug/L	252.26 ppb	01:35:54
1	Be 313.107†	-7708.0	-2802.4	4.7836 ug/L	4.7836 ppb	01:35:54
1	Cd 226.502†	686.5	860.8	0.5687 ug/L	0.5687 ppb	01:36:14
1	Co 228.616†	718.7	778.1	9.9230 ug/L	9.9230 ppb	01:36:14
1	Cr 267.716†	4086.7	3962.7	43.841 ug/L	43.841 ppb	01:36:14
1	Cu 324.752†	16384.6	7195.3	25.087 ug/L	25.087 ppb	01:35:54
1	Mn 257.610†	2223509.4	2193192.2	2473.3 ug/L	2473.3 ppb	01:35:49
1	Mo 202.031†	22.5	11.6	7.6918 ug/L	7.6918 ppb	01:36:14
1	Ni 231.604†	1308.4	1210.4	29.289 ug/L	29.289 ppb	01:36:14
1	P 214.914†	1115.5	851.9	401.49 ug/L	401.49 ppb	01:36:14
1	Pb 220.353†	420.9	460.4	51.746 ug/L	51.746 ppb	01:36:14
1	S 181.975 Axial†	208.2	162.7	214.35 ug/L	214.35 ppb	01:36:14
1	Sb 206.836†	47.2	11.7	-2.8824 ug/L	-2.8824 ppb	01:36:14
1	Se 196.026†	-406.5	-377.3	85.156 ug/L	85.156 ppb	01:36:14
1	Si 251.611†	656833.6	647642.6	19784 ug/L	19784 ppb	01:35:49
1	Sn 189.927†	-32.1	-32.8	-3.4713 ug/L	-3.4713 ppb	01:36:14
1	Ti 334.940†	1707977.6	1686142.2	2558.1 ug/L	2558.1 ppb	01:35:49
1	Tl 190.801†	-167.0	-119.7	-5.9594 ug/L	-5.9594 ppb	01:36:14
1	U 409.014†	-11686.6	-8736.4	-233.14 ug/L	-233.14 ppb	01:35:49
1	V 292.402†	11310.5	12625.5	66.300 ug/L	66.300 ppb	01:35:54
1	Zn 213.857†	47557.4	46000.4	411.17 ug/L	411.17 ppb	01:35:54
1	SiO2†	648719.2	639642.7	41718 ug/L	41718 ppb	01:37:22
2	Sc Radial	5674.3	5674.3	108 %		01:34:56
2	Y RADIAL	7273.9	7273.9	131.7 %		01:34:56
2	Al 396.153Radial†	29080.5	27139.0	21923 ug/L	21923 ppb	01:34:56
2	Ca 317.933Radial†	4279.6	3957.5	6587.8 ug/L	6587.8 ppb	01:34:56
2	Fe 238.204 Radial†	9890.9	9184.1	88065 ug/L	88065 ppb	01:34:56
2	K 766.490 Radial†	26025.4	21531.0	3884.6 ug/L	3884.6 ppb	01:34:56
2	Mg 279.077 IEC†	122.2	112.2	4191.6 ug/L	4191.6 ppb	01:35:16
2	Na 589.592 Radial†	1245.1	1745.1	531.45 ug/L	531.45 ppb	01:34:56
2	Sr 421.552†	8017.7	7386.2	45.445 ug/L	45.445 ppb	01:34:56
2	Sc 361.383	993515.0	993515.0	100.15 %		01:36:20
2	Y 371.029	1047113.7	1047113.7	121.76 %		01:36:20
2	Ag 328.068†	-5636.1	-6001.9	3.4763 ug/L	3.4763 ppb	01:36:25
2	As 188.979†	-66.7	-30.1	30.390 ug/L	30.390 ppb	01:36:45
2	B 249.677†	747.2	1087.1	10.611 ug/L	10.611 ppb	01:36:25
2	Ba 233.527†	31170.2	31138.6	255.41 ug/L	255.41 ppb	01:36:25
2	Be 313.107†	-7938.4	-3123.7	4.6606 ug/L	4.6606 ppb	01:36:25
2	Cd 226.502†	704.7	887.2	0.8429 ug/L	0.8429 ppb	01:36:45
2	Co 228.616†	720.3	788.2	10.143 ug/L	10.143 ppb	01:36:45
2	Cr 267.716†	4123.1	4047.5	44.742 ug/L	44.742 ppb	01:36:45
2	Cu 324.752†	16369.8	7374.5	25.602 ug/L	25.602 ppb	01:36:25
2	Mn 257.610†	2196282.5	2192331.6	2472.4 ug/L	2472.4 ppb	01:36:20
2	Mo 202.031†	36.8	26.2	8.7112 ug/L	8.7112 ppb	01:36:45
2	Ni 231.604†	1307.3	1224.8	29.637 ug/L	29.637 ppb	01:36:45

2	P 214.914†	1121.5	871.1	411.85 ug/L	411.85 ppb	01:36:45
2	Pb 220.353†	416.5	461.0	51.809 ug/L	51.809 ppb	01:36:45
2	S 181.975 Axial†	213.8	170.7	225.20 ug/L	225.20 ppb	01:36:45
2	Sb 206.836†	52.1	17.2	-1.0858 ug/L	-1.0858 ppb	01:36:45
2	Se 196.026†	-406.1	-381.8	83.452 ug/L	83.452 ppb	01:36:45
2	Si 251.611†	648387.4	646985.7	19764 ug/L	19764 ppb	01:36:20
2	Sn 189.927†	-29.5	-30.5	-3.0534 ug/L	-3.0534 ppb	01:36:45
2	Ti 334.940†	1686033.4	1684452.8	2555.5 ug/L	2555.5 ppb	01:36:20
2	Tl 190.801†	-165.2	-119.9	-6.0464 ug/L	-6.0464 ppb	01:36:45
2	U 409.014†	-11347.7	-8536.5	-228.06 ug/L	-228.06 ppb	01:36:20
2	V 292.402†	11438.9	12887.6	67.999 ug/L	67.999 ppb	01:36:25
2	Zn 213.857†	47621.6	46627.5	416.87 ug/L	416.87 ppb	01:36:25
2	SiO2†	651294.5	649894.3	42386 ug/L	42386 ppb	01:37:27
3	Sc Radial	5565.7	5565.7	106 %		01:35:21
3	Y RADIAL	7148.0	7148.0	129.4 %		01:35:21
3	Al 396.153Radial†	28766.7	27369.4	22109 ug/L	22109 ppb	01:35:21
3	Ca 317.933Radial†	4236.9	3994.6	6649.7 ug/L	6649.7 ppb	01:35:21
3	Fe 238.204 Radial†	9764.7	9244.0	88639 ug/L	88639 ppb	01:35:21
3	K 766.490 Radial†	25835.0	21822.9	3937.3 ug/L	3937.3 ppb	01:35:21
3	Mg 279.077 IEC†	121.2	113.5	4240.2 ug/L	4240.2 ppb	01:35:41
3	Na 589.592 Radial†	1204.1	1728.8	526.49 ug/L	526.49 ppb	01:35:21
3	Sr 421.552†	7963.5	7480.4	46.024 ug/L	46.024 ppb	01:35:21
3	Sc 361.383	1002649.5	1002649.5	101.07 %		01:36:51
3	Y 371.029	1056038.0	1056038.0	122.80 %		01:36:51
3	Ag 328.068†	-5765.9	-6079.1	3.3360 ug/L	3.3360 ppb	01:36:56
3	As 188.979†	-69.0	-31.7	29.865 ug/L	29.865 ppb	01:37:16
3	B 249.677†	689.8	1023.6	9.0594 ug/L	9.0594 ppb	01:36:56
3	Ba 233.527†	31733.3	31412.2	257.65 ug/L	257.65 ppb	01:36:56
3	Be 313.107†	-7901.5	-3015.0	4.7046 ug/L	4.7046 ppb	01:36:56
3	Cd 226.502†	696.2	872.3	0.6160 ug/L	0.6160 ppb	01:37:16
3	Co 228.616†	726.1	787.5	10.116 ug/L	10.116 ppb	01:37:16
3	Cr 267.716†	4105.0	3992.1	44.169 ug/L	44.169 ppb	01:37:16
3	Cu 324.752†	16799.9	7651.1	26.415 ug/L	26.415 ppb	01:36:56
3	Mn 257.610†	2218111.6	2193950.5	2474.3 ug/L	2474.3 ppb	01:36:51
3	Mo 202.031†	39.1	28.1	8.8885 ug/L	8.8885 ppb	01:37:16
3	Ni 231.604†	1311.1	1216.7	29.440 ug/L	29.440 ppb	01:37:16
3	P 214.914†	1104.5	844.1	396.30 ug/L	396.30 ppb	01:37:16
3	Pb 220.353†	400.5	441.4	49.436 ug/L	49.436 ppb	01:37:16
3	S 181.975 Axial†	206.2	161.2	212.36 ug/L	212.36 ppb	01:37:16
3	Sb 206.836†	56.5	21.1	0.1452 ug/L	0.1452 ppb	01:37:16
3	Se 196.026†	-411.1	-383.0	84.711 ug/L	84.711 ppb	01:37:16
3	Si 251.611†	654983.5	647613.7	19783 ug/L	19783 ppb	01:36:51
3	Sn 189.927†	-36.7	-37.4	-4.2822 ug/L	-4.2822 ppb	01:37:16
3	Ti 334.940†	1702799.1	1685703.4	2557.4 ug/L	2557.4 ppb	01:36:51
3	Tl 190.801†	-157.8	-111.1	-3.1722 ug/L	-3.1722 ppb	01:37:16
3	U 409.014†	-11564.4	-8647.6	-230.96 ug/L	-230.96 ppb	01:36:51
3	V 292.402†	11527.8	12871.5	67.806 ug/L	67.806 ppb	01:36:56
3	Zn 213.857†	48417.8	46982.0	420.05 ug/L	420.05 ppb	01:36:56
3	SiO2†	651753.4	644424.0	42030 ug/L	42030 ppb	01:37:33

Mean Data: 244628011|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	1000533.8	100.86 %		0.629			0.62%
Sc Radial	5624.7	107 %		1.0			0.98%
Y 371.029	1053876.4	122.55 %		0.696			0.57%
Y RADIAL	7209.3	130.5 %		1.14			0.87%
Ag 328.068†	-6015.1	3.4578 ug/L		0.11361	3.4578 ppb	0.11361	3.29%
Al 396.153Radial†	27195.9	21969 ug/L		123.8	21969 ppb	123.8	0.56%
As 188.979†	-30.6	30.206 ug/L		0.2957	30.206 ppb	0.2957	0.98%
B 249.677†	1025.8	9.1842 ug/L		1.36885	9.1842 ppb	1.36885	14.90%
Ba 233.527†	31100.6	255.11 ug/L		2.708	255.11 ppb	2.708	1.06%
Be 313.107†	-2980.4	4.7163 ug/L		0.06235	4.7163 ppb	0.06235	1.32%
Ca 317.933Radial†	3965.2	6600.6 ug/L		44.10	6600.6 ppb	44.10	0.67%
Cd 226.502†	873.5	0.6759 ug/L		0.14658	0.6759 ppb	0.14658	21.69%
Co 228.616†	784.6	10.060 ug/L		0.1197	10.060 ppb	0.1197	1.19%
Cr 267.716†	4000.8	44.251 ug/L		0.4563	44.251 ppb	0.4563	1.03%
Cu 324.752†	7407.0	25.702 ug/L		0.6696	25.702 ppb	0.6696	2.61%
Fe 238.204 Radial†	9196.3	88182 ug/L		411.6	88182 ppb	411.6	0.47%
K 766.490 Radial†	21629.5	3902.4 ug/L		30.24	3902.4 ppb	30.24	0.77%

Mg 279.077 IEC†	112.7	4212.6 ug/L	24.95	4212.6 ppb	24.95	0.59%
Mn 257.610†	2193158.1	2473.3 ug/L	0.94	2473.3 ppb	0.94	0.04%
Mo 202.031†	21.9	8.4305 ug/L	0.64585	8.4305 ppb	0.64585	7.66%
Na 589.592 Radial†	1736.4	528.80 ug/L	2.497	528.80 ppb	2.497	0.47%
Ni 231.604†	1217.3	29.455 ug/L	0.1747	29.455 ppb	0.1747	0.59%
P 214.914†	855.7	403.21 ug/L	7.917	403.21 ppb	7.917	1.96%
Pb 220.353†	454.2	50.997 ug/L	1.3518	50.997 ppb	1.3518	2.65%
S 181.975 Axial†	164.9	217.30 ug/L	6.912	217.30 ppb	6.912	3.18%
Sb 206.836†	16.7	-1.2744 ug/L	1.52258	-1.2744 ppb	1.52258	119.48%
Se 196.026†	-380.7	84.440 ug/L	0.8836	84.440 ppb	0.8836	1.05%
Si 251.611†	647414.0	19777 ug/L	11.3	19777 ppb	11.3	0.06%
Sn 189.927†	-33.6	-3.6023 ug/L	0.62481	-3.6023 ppb	0.62481	17.34%
Sr 421.552†	7434.1	45.739 ug/L	0.2899	45.739 ppb	0.2899	0.63%
Ti 334.940†	1685432.8	2557.0 ug/L	1.33	2557.0 ppb	1.33	0.05%
Tl 190.801†	-116.9	-5.0593 ug/L	1.63490	-5.0593 ppb	1.63490	32.31%
U 409.014†	-8640.2	-230.72 ug/L	2.547	-230.72 ppb	2.547	1.10%
V 292.402†	12794.8	67.368 ug/L	0.9302	67.368 ppb	0.9302	1.38%
Zn 213.857†	46536.6	416.03 ug/L	4.499	416.03 ppb	4.499	1.08%
Sio2†	644653.6	42045 ug/L	334.5	42045 ppb	334.5	0.80%

Sequence No.: 71

Sample ID: 244628012|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 1/30/2010 01:39:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628012|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5683.1	5683.1	108 %		01:41:37
1	Y RADIAL	7133.9	7133.9	129.2 %		01:41:37
1	Al 396.153Radial†	24624.9	22961.9	18549 ug/L	18549 ppb	01:41:37
1	Ca 317.933Radial†	9710.3	8991.7	14968 ug/L	14968 ppb	01:41:37
1	Fe 238.204 Radial†	7480.9	6933.2	66481 ug/L	66481 ppb	01:41:37
1	K 766.490 Radial†	29631.1	24840.2	4478.9 ug/L	4478.9 ppb	01:41:37
1	Mg 279.077 IEC†	132.9	122.0	4588.5 ug/L	4588.5 ppb	01:41:57
1	Na 589.592 Radial†	1646.6	2115.9	644.39 ug/L	644.39 ppb	01:41:37
1	Sr 421.552†	14147.0	13063.5	80.350 ug/L	80.350 ppb	01:41:37
1	Sc 361.383	1001884.2	1001884.2	101.00 %		01:42:54
1	Y 371.029	1035220.4	1035220.4	120.38 %		01:42:54
1	Ag 328.068†	-4172.6	-4505.9	2.6271 ug/L	2.6271 ppb	01:42:59
1	As 188.979†	-53.2	-16.1	25.717 ug/L	25.717 ppb	01:43:19
1	B 249.677†	791.3	1124.6	14.985 ug/L	14.985 ppb	01:42:59
1	Ba 233.527†	40776.1	40389.6	329.72 ug/L	329.72 ppb	01:42:59
1	Be 313.107†	-4050.7	791.7	4.6845 ug/L	4.6845 ppb	01:42:59
1	Cd 226.502†	543.5	721.7	1.2004 ug/L	1.2004 ppb	01:43:19
1	Co 228.616†	587.0	650.3	8.8820 ug/L	8.8820 ppb	01:43:19
1	Cr 267.716†	1623.7	1538.3	17.744 ug/L	17.744 ppb	01:43:19
1	Cu 324.752†	21078.9	11900.6	37.254 ug/L	37.254 ppb	01:42:59
1	Mn 257.610†	3201370.4	3169171.1	3568.1 ug/L	3568.1 ppb	01:42:54
1	Mo 202.031†	31.5	20.6	6.7534 ug/L	6.7534 ppb	01:43:19
1	Ni 231.604†	823.4	734.8	17.777 ug/L	17.777 ppb	01:43:19
1	P 214.914†	2443.0	2170.2	1143.7 ug/L	1143.7 ppb	01:43:19
1	Pb 220.353†	635.0	673.9	78.896 ug/L	78.896 ppb	01:43:19
1	S 181.975 Axial†	805.7	755.0	1010.5 ug/L	1010.5 ppb	01:43:19
1	Sb 206.836†	46.0	10.7	-1.9230 ug/L	-1.9230 ppb	01:43:19
1	Se 196.026†	-305.7	-279.0	68.184 ug/L	68.184 ppb	01:43:19
1	Si 251.611†	571409.0	565359.9	17270 ug/L	17270 ppb	01:42:54
1	Sn 189.927†	-115.0	-115.0	-17.469 ug/L	-17.469 ppb	01:43:19
1	Ti 334.940†	1288221.9	1276509.1	1937.9 ug/L	1937.9 ppb	01:42:54
1	Tl 190.801†	-171.6	-124.9	-7.4994 ug/L	-7.4994 ppb	01:43:19
1	U 409.014†	-12535.7	-9618.1	-253.15 ug/L	-253.15 ppb	01:42:54
1	V 292.402†	7056.8	8453.3	42.904 ug/L	42.904 ppb	01:42:59
1	Zn 213.857†	47322.4	45934.0	412.69 ug/L	412.69 ppb	01:42:59
1	SiO2†	569659.1	563633.2	36760 ug/L	36760 ppb	01:44:27
2	Sc Radial	5622.7	5622.7	107 %		01:42:02
2	Y RADIAL	7106.3	7106.3	128.7 %		01:42:02
2	Al 396.153Radial†	24498.6	23089.1	18651 ug/L	18651 ppb	01:42:02
2	Ca 317.933Radial†	9746.5	9122.5	15186 ug/L	15186 ppb	01:42:02
2	Fe 238.204 Radial†	7462.1	6990.1	67027 ug/L	67027 ppb	01:42:02
2	K 766.490 Radial†	29634.1	25138.6	4532.7 ug/L	4532.7 ppb	01:42:02
2	Mg 279.077 IEC†	135.1	125.3	4715.6 ug/L	4715.6 ppb	01:42:22
2	Na 589.592 Radial†	1577.7	2067.7	629.71 ug/L	629.71 ppb	01:42:02
2	Sr 421.552†	14090.0	13151.1	80.889 ug/L	80.889 ppb	01:42:02
2	Sc 361.383	1000474.6	1000474.6	100.86 %		01:43:25
2	Y 371.029	1035074.1	1035074.1	120.36 %		01:43:25
2	Ag 328.068†	-4211.7	-4550.5	2.6138 ug/L	2.6138 ppb	01:43:30
2	As 188.979†	-49.5	-12.6	27.280 ug/L	27.280 ppb	01:43:50
2	B 249.677†	823.7	1157.8	15.661 ug/L	15.661 ppb	01:43:30
2	Ba 233.527†	41160.3	40827.5	333.29 ug/L	333.29 ppb	01:43:30
2	Be 313.107†	-3855.5	979.7	4.7504 ug/L	4.7504 ppb	01:43:30
2	Cd 226.502†	529.8	708.8	0.9996 ug/L	0.9996 ppb	01:43:50
2	Co 228.616†	557.5	621.8	8.2757 ug/L	8.2757 ppb	01:43:50
2	Cr 267.716†	1643.9	1560.7	17.992 ug/L	17.992 ppb	01:43:50
2	Cu 324.752†	21226.2	12076.0	37.778 ug/L	37.778 ppb	01:43:30
2	Mn 257.610†	3194923.8	3167245.1	3566.0 ug/L	3566.0 ppb	01:43:25
2	Mo 202.031†	28.3	17.4	6.5812 ug/L	6.5812 ppb	01:43:50
2	Ni 231.604†	811.9	724.6	17.530 ug/L	17.530 ppb	01:43:50

2	P 214.914†	2452.9	2183.4	1150.5 ug/L	1150.5 ppb	01:43:50
2	Pb 220.353†	629.6	669.4	78.336 ug/L	78.336 ppb	01:43:50
2	S 181.975 Axial†	810.2	760.6	1018.0 ug/L	1018.0 ppb	01:43:50
2	Sb 206.836†	55.6	20.3	1.2190 ug/L	1.2190 ppb	01:43:50
2	Se 196.026†	-311.9	-285.5	66.433 ug/L	66.433 ppb	01:43:50
2	Si 251.611†	570336.5	565093.6	17262 ug/L	17262 ppb	01:43:25
2	Sn 189.927†	-100.7	-100.9	-14.871 ug/L	-14.871 ppb	01:43:50
2	Ti 334.940†	1285637.5	1275743.7	1936.7 ug/L	1936.7 ppb	01:43:25
2	Tl 190.801†	-159.9	-113.6	-3.8418 ug/L	-3.8418 ppb	01:43:50
2	U 409.014†	-12558.0	-9657.7	-254.23 ug/L	-254.23 ppb	01:43:25
2	V 292.402†	7092.3	8498.3	43.116 ug/L	43.116 ppb	01:43:30
2	Zn 213.857†	47695.6	46370.1	416.62 ug/L	416.62 ppb	01:43:30
2	SiO2†	575973.0	570688.3	37221 ug/L	37221 ppb	01:44:33
3	Sc Radial	5682.8	5682.8	108 %		01:42:27
3	Y RADIAL	7186.5	7186.5	130.1 %		01:42:27
3	Al 396.153Radial†	24713.5	23045.3	18616 ug/L	18616 ppb	01:42:27
3	Ca 317.933Radial†	9782.2	9058.9	15080 ug/L	15080 ppb	01:42:27
3	Fe 238.204 Radial†	7574.7	7020.5	67319 ug/L	67319 ppb	01:42:27
3	K 766.490 Radial†	29985.4	25170.4	4538.5 ug/L	4538.5 ppb	01:42:27
3	Mg 279.077 IEC†	138.8	127.5	4798.0 ug/L	4798.0 ppb	01:42:47
3	Na 589.592 Radial†	1590.8	2064.2	628.63 ug/L	628.63 ppb	01:42:27
3	Sr 421.552†	14308.9	13214.4	81.279 ug/L	81.279 ppb	01:42:27
3	Sc 361.383	998455.1	998455.1	100.65 %		01:43:56
3	Y 371.029	1030538.3	1030538.3	119.84 %		01:43:56
3	Ag 328.068†	-4096.8	-4444.8	3.1575 ug/L	3.1575 ppb	01:44:01
3	As 188.979†	-55.8	-19.0	24.760 ug/L	24.760 ppb	01:44:22
3	B 249.677†	855.4	1190.9	16.373 ug/L	16.373 ppb	01:44:01
3	Ba 233.527†	41050.9	40801.3	333.09 ug/L	333.09 ppb	01:44:01
3	Be 313.107†	-3876.3	951.2	4.7478 ug/L	4.7478 ppb	01:44:01
3	Cd 226.502†	532.6	712.7	1.0139 ug/L	1.0139 ppb	01:44:22
3	Co 228.616†	569.3	634.7	8.5352 ug/L	8.5352 ppb	01:44:22
3	Cr 267.716†	1643.4	1563.5	18.027 ug/L	18.027 ppb	01:44:22
3	Cu 324.752†	21161.7	12054.5	37.733 ug/L	37.733 ppb	01:44:01
3	Mn 257.610†	3199296.4	3177996.6	3578.1 ug/L	3578.1 ppb	01:43:56
3	Mo 202.031†	21.3	10.6	6.1328 ug/L	6.1328 ppb	01:44:22
3	Ni 231.604†	848.4	762.4	18.446 ug/L	18.446 ppb	01:44:22
3	P 214.914†	2441.5	2177.0	1146.8 ug/L	1146.8 ppb	01:44:22
3	Pb 220.353†	620.2	661.3	77.322 ug/L	77.322 ppb	01:44:22
3	S 181.975 Axial†	813.8	765.7	1024.9 ug/L	1024.9 ppb	01:44:22
3	Sb 206.836†	55.8	20.6	1.2534 ug/L	1.2534 ppb	01:44:22
3	Se 196.026†	-316.3	-290.5	64.648 ug/L	64.648 ppb	01:44:22
3	Si 251.611†	570715.1	566613.5	17309 ug/L	17309 ppb	01:43:56
3	Sn 189.927†	-113.6	-113.9	-17.243 ug/L	-17.243 ppb	01:44:22
3	Ti 334.940†	1285316.9	1278003.4	1940.1 ug/L	1940.1 ppb	01:43:56
3	Tl 190.801†	-163.7	-117.6	-5.0525 ug/L	-5.0525 ppb	01:44:22
3	U 409.014†	-12539.7	-9664.7	-254.44 ug/L	-254.44 ppb	01:43:56
3	V 292.402†	7047.6	8468.2	42.868 ug/L	42.868 ppb	01:44:01
3	Zn 213.857†	47591.6	46362.5	416.51 ug/L	416.51 ppb	01:44:01
3	SiO2†	570308.1	566215.2	36929 ug/L	36929 ppb	01:44:38

Mean Data: 244628012|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	1000271.3	100.84 %		0.174				0.17%
Sc Radial	5662.9	107 %		0.7				0.61%
Y 371.029	1033610.9	120.19 %		0.310				0.26%
Y RADIAL	7142.2	129.3 %		0.74				0.57%
Ag 328.068†	-4500.4	2.7995 ug/L		0.31014	2.7995 ppb		0.31014	11.08%
Al 396.153Radial†	23032.1	18605 ug/L		52.2	18605 ppb		52.2	0.28%
As 188.979†	-15.9	25.919 ug/L		1.2719	25.919 ppb		1.2719	4.91%
B 249.677†	1157.8	15.673 ug/L		0.6944	15.673 ppb		0.6944	4.43%
Ba 233.527†	40672.8	332.03 ug/L		2.004	332.03 ppb		2.004	0.60%
Be 313.107†	907.5	4.7276 ug/L		0.03734	4.7276 ppb		0.03734	0.79%
Ca 317.933Radial†	9057.7	15078 ug/L		108.9	15078 ppb		108.9	0.72%
Cd 226.502†	714.4	1.0713 ug/L		0.11205	1.0713 ppb		0.11205	10.46%
Co 228.616†	635.6	8.5643 ug/L		0.30418	8.5643 ppb		0.30418	3.55%
Cr 267.716†	1554.2	17.921 ug/L		0.1542	17.921 ppb		0.1542	0.86%
Cu 324.752†	12010.3	37.588 ug/L		0.2907	37.588 ppb		0.2907	0.77%
Fe 238.204 Radial†	6981.3	66942 ug/L		425.2	66942 ppb		425.2	0.64%
K 766.490 Radial†	25049.7	4516.7 ug/L		32.87	4516.7 ppb		32.87	0.73%

Mg 279.077 IEC†	124.9	4700.7 ug/L	105.53	4700.7 ppb	105.53	2.25%
Mn 257.610†	3171470.9	3570.7 ug/L	6.47	3570.7 ppb	6.47	0.18%
Mo 202.031†	16.2	6.4891 ug/L	0.32040	6.4891 ppb	0.32040	4.94%
Na 589.592 Radial†	2082.6	634.25 ug/L	8.804	634.25 ppb	8.804	1.39%
Ni 231.604†	740.6	17.918 ug/L	0.4738	17.918 ppb	0.4738	2.64%
P 214.914†	2176.9	1147.0 ug/L	3.41	1147.0 ppb	3.41	0.30%
Pb 220.353†	668.2	78.184 ug/L	0.7979	78.184 ppb	0.7979	1.02%
S 181.975 Axial†	760.4	1017.8 ug/L	7.22	1017.8 ppb	7.22	0.71%
Sb 206.836†	17.2	0.1831 ug/L	1.82405	0.1831 ppb	1.82405	996.14%
Se 196.026†	-285.0	66.422 ug/L	1.7677	66.422 ppb	1.7677	2.66%
Si 251.611†	565689.0	17280 ug/L	24.8	17280 ppb	24.8	0.14%
Sn 189.927†	-110.0	-16.528 ug/L	1.4390	-16.528 ppb	1.4390	8.71%
Sr 421.552†	13143.0	80.839 ug/L	0.4663	80.839 ppb	0.4663	0.58%
Ti 334.940†	1276752.1	1938.3 ug/L	1.73	1938.3 ppb	1.73	0.09%
Tl 190.801†	-118.7	-5.4646 ug/L	1.86331	-5.4646 ppb	1.86331	34.10%
U 409.014†	-9646.8	-253.94 ug/L	0.689	-253.94 ppb	0.689	0.27%
V 292.402†	8473.3	42.963 ug/L	0.1339	42.963 ppb	0.1339	0.31%
Zn 213.857†	46222.2	415.27 ug/L	2.239	415.27 ppb	2.239	0.54%
SiO2†	566845.6	36970 ug/L	232.8	36970 ppb	232.8	0.63%

Sequence No.: 72
 Sample ID: 244628013|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 80
 Date Collected: 1/30/2010 01:46:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628013|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc Radial	5594.5	5594.5	106 %			01:48:42
1	Y RADIAL	6923.3	6923.3	125.4 %			01:48:42
1	Al 396.153Radial†	36125.2	34166.4	27599 ug/L		27599 ppb	01:48:42
1	Ca 317.933Radial†	5458.1	5125.3	8531.8 ug/L		8531.8 ppb	01:48:42
1	Fe 238.204 Radial†	7949.3	7484.7	71769 ug/L		71769 ppb	01:48:42
1	K 766.490 Radial†	31206.3	26760.7	4828.3 ug/L		4828.3 ppb	01:48:42
1	Mg 279.077 IEC†	153.7	143.6	5407.4 ug/L		5407.4 ppb	01:49:02
1	Na 589.592 Radial†	955.8	1488.8	453.41 ug/L		453.41 ppb	01:48:42
1	Sr 421.552†	11081.3	10381.0	63.876 ug/L		63.876 ppb	01:48:42
1	Sc 361.383	1001876.5	1001876.5	101.00 %			01:50:00
1	Y 371.029	1015821.3	1015821.3	118.12 %			01:50:00
1	Ag 328.068†	-4481.2	-4811.5	3.1350 ug/L		3.1350 ppb	01:50:05
1	As 188.979†	-41.2	-4.3	33.014 ug/L		33.014 ppb	01:50:25
1	B 249.677†	540.1	875.9	8.4056 ug/L		8.4056 ppb	01:50:05
1	Ba 233.527†	45985.4	45547.8	371.76 ug/L		371.76 ppb	01:50:05
1	Be 313.107†	-3817.5	1022.7	5.0877 ug/L		5.0877 ppb	01:50:05
1	Cd 226.502†	585.0	762.7	1.1579 ug/L		1.1579 ppb	01:50:25
1	Co 228.616†	759.0	820.6	12.118 ug/L		12.118 ppb	01:50:25
1	Cr 267.716†	7481.6	7338.5	79.210 ug/L		79.210 ppb	01:50:25
1	Cu 324.752†	22259.1	13069.3	40.784 ug/L		40.784 ppb	01:50:05
1	Mn 257.610†	2356351.2	2332518.4	2628.3 ug/L		2628.3 ppb	01:50:00
1	Mo 202.031†	127.2	115.3	13.592 ug/L		13.592 ppb	01:50:25
1	Ni 231.604†	2473.3	2368.4	57.317 ug/L		57.317 ppb	01:50:25
1	P 214.914†	1371.2	1109.0	554.60 ug/L		554.60 ppb	01:50:25
1	Pb 220.353†	632.3	671.2	79.895 ug/L		79.895 ppb	01:50:25
1	S 181.975 Axial†	287.3	241.7	319.47 ug/L		319.47 ppb	01:50:25
1	Sb 206.836†	59.9	24.4	2.3020 ug/L		2.3020 ppb	01:50:25
1	Se 196.026†	-327.4	-300.4	74.527 ug/L		74.527 ppb	01:50:25
1	Si 251.611†	739820.8	732113.4	22364 ug/L		22364 ppb	01:50:00
1	Sn 189.927†	-53.8	-54.4	-7.3566 ug/L		-7.3566 ppb	01:50:25
1	Ti 334.940†	1381763.9	1369137.4	2077.4 ug/L		2077.4 ppb	01:50:00
1	Tl 190.801†	-152.0	-105.4	-4.5705 ug/L		-4.5705 ppb	01:50:25
1	U 409.014†	-9036.2	-6153.2	-165.44 ug/L		-165.44 ppb	01:50:00
1	V 292.402†	10011.9	11379.3	61.278 ug/L		61.278 ppb	01:50:05
1	Zn 213.857†	38878.0	37573.4	335.60 ug/L		335.60 ppb	01:50:05
1	SiO2†	742402.6	734675.7	47916 ug/L		47916 ppb	01:51:33
2	Sc Radial	5583.3	5583.3	106 %			01:49:08
2	Y RADIAL	6891.7	6891.7	124.8 %			01:49:08
2	Al 396.153Radial†	36119.7	34229.7	27651 ug/L		27651 ppb	01:49:08
2	Ca 317.933Radial†	5451.5	5129.4	8538.6 ug/L		8538.6 ppb	01:49:08
2	Fe 238.204 Radial†	7914.2	7466.6	71596 ug/L		71596 ppb	01:49:08
2	K 766.490 Radial†	31210.5	26823.8	4839.6 ug/L		4839.6 ppb	01:49:08
2	Mg 279.077 IEC†	148.0	138.4	5210.7 ug/L		5210.7 ppb	01:49:28
2	Na 589.592 Radial†	1013.1	1544.7	470.43 ug/L		470.43 ppb	01:49:08
2	Sr 421.552†	11023.1	10347.0	63.666 ug/L		63.666 ppb	01:49:08
2	Sc 361.383	1002001.4	1002001.4	101.01 %			01:50:31
2	Y 371.029	1013575.4	1013575.4	117.86 %			01:50:31
2	Ag 328.068†	-4476.0	-4805.8	3.1063 ug/L		3.1063 ppb	01:50:36
2	As 188.979†	-56.1	-19.0	26.938 ug/L		26.938 ppb	01:50:56
2	B 249.677†	611.1	946.0	10.046 ug/L		10.046 ppb	01:50:36
2	Ba 233.527†	46510.4	46061.9	375.92 ug/L		375.92 ppb	01:50:36
2	Be 313.107†	-3783.0	1057.3	5.1074 ug/L		5.1074 ppb	01:50:36
2	Cd 226.502†	591.9	769.5	1.2511 ug/L		1.2511 ppb	01:50:56
2	Co 228.616†	738.1	799.8	11.678 ug/L		11.678 ppb	01:50:56
2	Cr 267.716†	7508.5	7364.1	79.479 ug/L		79.479 ppb	01:50:56
2	Cu 324.752†	22607.3	13411.3	41.742 ug/L		41.742 ppb	01:50:36
2	Mn 257.610†	2360906.5	2336737.4	2633.0 ug/L		2633.0 ppb	01:50:31
2	Mo 202.031†	137.1	125.2	14.257 ug/L		14.257 ppb	01:50:56
2	Ni 231.604†	2457.9	2352.9	56.940 ug/L		56.940 ppb	01:50:56

2	P 214.914†	1380.0	1117.6	559.32 ug/L	559.32 ppb	01:50:56
2	Pb 220.353†	629.4	668.2	79.564 ug/L	79.564 ppb	01:50:56
2	S 181.975 Axial†	295.9	250.2	330.77 ug/L	330.77 ppb	01:50:56
2	Sb 206.836†	50.5	15.1	-0.6833 ug/L	-0.6833 ppb	01:50:56
2	Se 196.026†	-335.3	-308.3	69.668 ug/L	69.668 ppb	01:50:56
2	Si 251.611†	741394.1	733579.7	22409 ug/L	22409 ppb	01:50:31
2	Sn 189.927†	-50.9	-51.5	-6.8359 ug/L	-6.8359 ppb	01:50:56
2	Ti 334.940†	1384004.7	1371185.3	2080.5 ug/L	2080.5 ppb	01:50:31
2	Tl 190.801†	-155.7	-109.1	-5.7164 ug/L	-5.7164 ppb	01:50:56
2	U 409.014†	-9129.6	-6244.5	-167.75 ug/L	-167.75 ppb	01:50:31
2	V 292.402†	10065.2	11430.8	61.637 ug/L	61.637 ppb	01:50:36
2	Zn 213.857†	39254.7	37941.5	338.98 ug/L	338.98 ppb	01:50:36
2	SiO2†	738514.0	730734.4	47659 ug/L	47659 ppb	01:51:39
3	Sc Radial	5623.3	5623.3	107 %		01:49:33
3	Y RADIAL	6944.0	6944.0	125.7 %		01:49:33
3	Al 396.153Radial†	36408.2	34257.4	27673 ug/L	27673 ppb	01:49:33
3	Ca 317.933Radial†	5495.7	5134.2	8546.7 ug/L	8546.7 ppb	01:49:33
3	Fe 238.204 Radial†	8001.0	7494.8	71867 ug/L	71867 ppb	01:49:33
3	K 766.490 Radial†	31433.8	26823.4	4839.6 ug/L	4839.6 ppb	01:49:33
3	Mg 279.077 IEC†	146.3	135.9	5112.3 ug/L	5112.3 ppb	01:49:53
3	Na 589.592 Radial†	1032.5	1556.1	473.90 ug/L	473.90 ppb	01:49:33
3	Sr 421.552†	11161.5	10402.6	64.009 ug/L	64.009 ppb	01:49:33
3	Sc 361.383	998321.1	998321.1	100.64 %		01:51:02
3	Y 371.029	1010127.2	1010127.2	117.46 %		01:51:02
3	Ag 328.068†	-4466.0	-4812.2	3.1690 ug/L	3.1690 ppb	01:51:07
3	As 188.979†	-51.2	-14.3	28.914 ug/L	28.914 ppb	01:51:27
3	B 249.677†	643.5	980.5	10.793 ug/L	10.793 ppb	01:51:07
3	Ba 233.527†	46026.6	45750.9	373.41 ug/L	373.41 ppb	01:51:07
3	Be 313.107†	-3835.1	991.7	5.0776 ug/L	5.0776 ppb	01:51:07
3	Cd 226.502†	577.7	757.6	1.0888 ug/L	1.0888 ppb	01:51:27
3	Co 228.616†	744.3	808.6	11.866 ug/L	11.866 ppb	01:51:27
3	Cr 267.716†	7461.6	7345.0	79.283 ug/L	79.283 ppb	01:51:27
3	Cu 324.752†	22508.5	13395.5	41.712 ug/L	41.712 ppb	01:51:07
3	Mn 257.610†	2349239.9	2333761.4	2629.7 ug/L	2629.7 ppb	01:51:02
3	Mo 202.031†	139.8	128.4	14.496 ug/L	14.496 ppb	01:51:27
3	Ni 231.604†	2450.6	2354.6	56.983 ug/L	56.983 ppb	01:51:27
3	P 214.914†	1353.6	1096.4	547.39 ug/L	547.39 ppb	01:51:27
3	Pb 220.353†	634.0	675.2	80.379 ug/L	80.379 ppb	01:51:27
3	S 181.975 Axial†	289.5	244.9	323.72 ug/L	323.72 ppb	01:51:27
3	Sb 206.836†	66.6	31.3	4.5478 ug/L	4.5478 ppb	01:51:27
3	Se 196.026†	-335.2	-309.3	69.974 ug/L	69.974 ppb	01:51:27
3	Si 251.611†	737922.8	732836.3	22386 ug/L	22386 ppb	01:51:02
3	Sn 189.927†	-53.5	-54.2	-7.3326 ug/L	-7.3326 ppb	01:51:27
3	Ti 334.940†	1377222.4	1369497.1	2078.0 ug/L	2078.0 ppb	01:51:02
3	Tl 190.801†	-150.6	-104.6	-4.3068 ug/L	-4.3068 ppb	01:51:27
3	U 409.014†	-9136.3	-6284.5	-168.80 ug/L	-168.80 ppb	01:51:02
3	V 292.402†	10083.4	11485.7	61.956 ug/L	61.956 ppb	01:51:07
3	Zn 213.857†	38903.3	37735.6	337.07 ug/L	337.07 ppb	01:51:07
3	SiO2†	742725.2	737614.1	48107 ug/L	48107 ppb	01:51:44

Mean Data: 244628013|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	1000733.0	100.88 %		0.211				0.21%
Sc Radial	5600.4	106 %		0.4				0.37%
Y 371.029	1013174.6	117.82 %		0.334				0.28%
Y RADIAL	6919.6	125.3 %		0.48				0.38%
Ag 328.068†	-4809.8	3.1367 ug/L		0.03140	3.1367 ppb		0.03140	1.00%
Al 396.153Radial†	34217.9	27641 ug/L		37.6	27641 ppb		37.6	0.14%
As 188.979†	-12.6	29.622 ug/L		3.0995	29.622 ppb		3.0995	10.46%
B 249.677†	934.1	9.7482 ug/L		1.22112	9.7482 ppb		1.22112	12.53%
Ba 233.527†	45786.9	373.70 ug/L		2.097	373.70 ppb		2.097	0.56%
Be 313.107†	1023.9	5.0909 ug/L		0.01513	5.0909 ppb		0.01513	0.30%
Ca 317.933Radial†	5129.6	8539.0 ug/L		7.46	8539.0 ppb		7.46	0.09%
Cd 226.502†	763.3	1.1659 ug/L		0.08145	1.1659 ppb		0.08145	6.99%
Co 228.616†	809.6	11.887 ug/L		0.2210	11.887 ppb		0.2210	1.86%
Cr 267.716†	7349.2	79.324 ug/L		0.1393	79.324 ppb		0.1393	0.18%
Cu 324.752†	13292.0	41.413 ug/L		0.5446	41.413 ppb		0.5446	1.31%
Fe 238.204 Radial†	7482.0	71744 ug/L		137.1	71744 ppb		137.1	0.19%
K 766.490 Radial†	26802.6	4835.8 ug/L		6.55	4835.8 ppb		6.55	0.14%

Mg 279.077 IEC†	139.3	5243.5 ug/L	150.29	5243.5 ppb	150.29	2.87%
Mn 257.610†	2334339.1	2630.3 ug/L	2.43	2630.3 ppb	2.43	0.09%
Mo 202.031†	123.0	14.115 ug/L	0.4686	14.115 ppb	0.4686	3.32%
Na 589.592 Radial†	1529.9	465.91 ug/L	10.970	465.91 ppb	10.970	2.35%
Ni 231.604†	2358.7	57.080 ug/L	0.2063	57.080 ppb	0.2063	0.36%
P 214.914†	1107.6	553.77 ug/L	6.005	553.77 ppb	6.005	1.08%
Pb 220.353†	671.5	79.946 ug/L	0.4101	79.946 ppb	0.4101	0.51%
S 181.975 Axial†	245.6	324.65 ug/L	5.710	324.65 ppb	5.710	1.76%
Sb 206.836†	23.6	2.0555 ug/L	2.62422	2.0555 ppb	2.62422	127.67%
Se 196.026†	-306.0	71.390 ug/L	2.7212	71.390 ppb	2.7212	3.81%
Si 251.611†	732843.1	22386 ug/L	22.4	22386 ppb	22.4	0.10%
Sn 189.927†	-53.4	-7.1750 ug/L	0.29393	-7.1750 ppb	0.29393	4.10%
Sr 421.552†	10376.9	63.851 ug/L	0.1728	63.851 ppb	0.1728	0.27%
Ti 334.940†	1369939.9	2078.6 ug/L	1.66	2078.6 ppb	1.66	0.08%
Tl 190.801†	-106.4	-4.8646 ug/L	0.74941	-4.8646 ppb	0.74941	15.41%
U 409.014†	-6227.4	-167.33 ug/L	1.720	-167.33 ppb	1.720	1.03%
V 292.402†	11431.9	61.624 ug/L	0.3391	61.624 ppb	0.3391	0.55%
Zn 213.857†	37750.2	337.22 ug/L	1.694	337.22 ppb	1.694	0.50%
SiO2†	734341.4	47894 ug/L	225.1	47894 ppb	225.1	0.47%

Sequence No.: 73
 Sample ID: 244628014|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 81
 Date Collected: 1/30/2010 01:53:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628014|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5086.9	5086.9	96.4 %		01:55:49
1	Y RADIAL	7365.8	7365.8	133.4 %		01:55:49
1	Al 396.153Radial†	22118.5	23041.5	18612 ug/L	18612 ppb	01:55:49
1	Ca 317.933Radial†	2004.8	2058.1	3426.0 ug/L	3426.0 ppb	01:56:09
1	Fe 238.204 Radial†	8234.2	8528.0	81773 ug/L	81773 ppb	01:55:49
1	K 766.490 Radial†	18484.7	16505.5	2977.8 ug/L	2977.8 ppb	01:55:49
1	Mg 279.077 IEC†	87.1	89.0	3312.1 ug/L	3312.1 ppb	01:56:09
1	Na 589.592 Radial†	2300.0	2972.5	905.26 ug/L	905.26 ppb	01:55:49
1	Sr 421.552†	4035.2	4117.4	25.335 ug/L	25.335 ppb	01:55:49
1	Sc 361.383	999347.5	999347.5	100.74 %		01:57:06
1	Y 371.029	1150887.3	1150887.3	133.83 %		01:57:06
1	Ag 328.068†	-4721.8	-5061.6	5.3579 ug/L	5.3579 ppb	01:57:11
1	As 188.979†	-59.6	-22.7	32.700 ug/L	32.700 ppb	01:57:31
1	B 249.677†	335.3	674.0	2.1648 ug/L	2.1648 ppb	01:57:11
1	Ba 233.527†	18742.5	18620.8	153.61 ug/L	153.61 ppb	01:57:11
1	Be 313.107†	567.6	5365.9	7.9678 ug/L	7.9678 ppb	01:57:11
1	Cd 226.502†	548.6	728.1	-0.3002 ug/L	-0.3002 ppb	01:57:31
1	Co 228.616†	428.0	493.9	3.8237 ug/L	3.8237 ppb	01:57:31
1	Cr 267.716†	6576.9	6459.2	70.105 ug/L	70.105 ppb	01:57:11
1	Cu 324.752†	16942.8	7847.8	26.637 ug/L	26.637 ppb	01:57:11
1	Mn 257.610†	2747965.1	2727151.8	3072.9 ug/L	3072.9 ppb	01:57:06
1	Mo 202.031†	444.8	431.0	35.984 ug/L	35.984 ppb	01:57:31
1	Ni 231.604†	1606.7	1514.4	36.649 ug/L	36.649 ppb	01:57:31
1	P 214.914†	941.7	686.0	313.56 ug/L	313.56 ppb	01:57:31
1	Pb 220.353†	459.2	500.9	56.515 ug/L	56.515 ppb	01:57:31
1	S 181.975 Axial†	83.9	40.5	50.934 ug/L	50.934 ppb	01:57:31
1	Sb 206.836†	50.8	15.6	-1.4332 ug/L	-1.4332 ppb	01:57:31
1	Se 196.026†	-332.7	-306.5	103.77 ug/L	103.77 ppb	01:57:31
1	Si 251.611†	577520.1	572862.1	17499 ug/L	17499 ppb	01:57:06
1	Sn 189.927†	-4.8	-5.9	0.8223 ug/L	0.8223 ppb	01:57:31
1	Ti 334.940†	1757270.6	1745340.2	2647.5 ug/L	2647.5 ppb	01:57:06
1	Tl 190.801†	-160.9	-114.7	-0.6399 ug/L	-0.6399 ppb	01:57:31
1	U 409.014†	-13648.6	-10754.3	-284.02 ug/L	-284.02 ppb	01:57:06
1	V 292.402†	5356.2	6783.0	29.354 ug/L	29.354 ppb	01:57:11
1	Zn 213.857†	48516.7	47238.5	423.01 ug/L	423.01 ppb	01:57:11
1	SiO2†	575788.7	571149.5	37250 ug/L	37250 ppb	01:58:39
2	Sc Radial	5517.8	5517.8	105 %		01:56:14
2	Y RADIAL	7778.2	7778.2	140.8 %		01:56:14
2	Al 396.153Radial†	21306.3	20474.3	16538 ug/L	16538 ppb	01:56:14
2	Ca 317.933Radial†	2024.6	1914.7	3187.3 ug/L	3187.3 ppb	01:56:34
2	Fe 238.204 Radial†	7964.8	7603.7	72911 ug/L	72911 ppb	01:56:14
2	K 766.490 Radial†	17966.6	14513.6	2618.2 ug/L	2618.2 ppb	01:56:14
2	Mg 279.077 IEC†	90.0	84.7	3158.5 ug/L	3158.5 ppb	01:56:34
2	Na 589.592 Radial†	2199.0	2689.8	819.16 ug/L	819.16 ppb	01:56:14
2	Sr 421.552†	3853.0	3616.5	22.251 ug/L	22.251 ppb	01:56:14
2	Sc 361.383	999221.2	999221.2	100.73 %		01:57:37
2	Y 371.029	1151139.4	1151139.4	133.86 %		01:57:37
2	Ag 328.068†	-4677.1	-5017.7	2.6807 ug/L	2.6807 ppb	01:57:42
2	As 188.979†	-53.0	-16.1	33.329 ug/L	33.329 ppb	01:58:02
2	B 249.677†	379.8	718.2	4.6190 ug/L	4.6190 ppb	01:57:42
2	Ba 233.527†	18617.8	18499.4	152.35 ug/L	152.35 ppb	01:57:42
2	Be 313.107†	446.0	5245.2	7.9303 ug/L	7.9303 ppb	01:57:42
2	Cd 226.502†	538.0	717.7	0.4974 ug/L	0.4974 ppb	01:58:02
2	Co 228.616†	426.2	492.2	3.9085 ug/L	3.9085 ppb	01:58:02
2	Cr 267.716†	6498.8	6382.5	69.122 ug/L	69.122 ppb	01:57:42
2	Cu 324.752†	16988.0	7894.9	26.303 ug/L	26.303 ppb	01:57:42
2	Mn 257.610†	2747526.1	2727060.7	3071.9 ug/L	3071.9 ppb	01:57:37
2	Mo 202.031†	439.0	425.2	34.899 ug/L	34.899 ppb	01:58:02
2	Ni 231.604†	1598.1	1506.1	36.447 ug/L	36.447 ppb	01:58:02

2	P 214.914†	932.5	677.1	315.21 ug/L	315.21 ppb	01:58:02
2	Pb 220.353†	442.3	484.2	54.902 ug/L	54.902 ppb	01:58:02
2	S 181.975 Axial†	80.7	37.3	47.059 ug/L	47.059 ppb	01:58:02
2	Sb 206.836†	63.9	28.6	2.5633 ug/L	2.5633 ppb	01:58:02
2	Se 196.026†	-336.2	-310.1	72.380 ug/L	72.380 ppb	01:58:02
2	Si 251.611†	577951.7	573363.1	17514 ug/L	17514 ppb	01:57:37
2	Sn 189.927†	-1.7	-2.8	1.2102 ug/L	1.2102 ppb	01:58:02
2	Ti 334.940†	1758964.7	1747242.4	2650.4 ug/L	2650.4 ppb	01:57:37
2	Tl 190.801†	-180.9	-134.6	-7.0339 ug/L	-7.0339 ppb	01:58:02
2	U 409.014†	-13774.1	-10880.6	-286.23 ug/L	-286.23 ppb	01:57:37
2	V 292.402†	5388.8	6816.0	30.842 ug/L	30.842 ppb	01:57:42
2	Zn 213.857†	48410.9	47139.5	422.97 ug/L	422.97 ppb	01:57:42
2	SiO2†	574284.6	569728.4	37157 ug/L	37157 ppb	01:58:45
3	Sc Radial	5596.5	5596.5	106 %		01:56:39
3	Y RADIAL	7906.0	7906.0	143.1 %		01:56:39
3	Al 396.153Radial†	21758.1	20613.7	16650 ug/L	16650 ppb	01:56:39
3	Ca 317.933Radial†	2023.2	1886.1	3139.8 ug/L	3139.8 ppb	01:56:59
3	Fe 238.204 Radial†	8117.3	7640.4	73263 ug/L	73263 ppb	01:56:39
3	K 766.490 Radial†	18208.3	14499.9	2615.7 ug/L	2615.7 ppb	01:56:39
3	Mg 279.077 IEC†	87.7	81.3	3028.8 ug/L	3028.8 ppb	01:56:59
3	Na 589.592 Radial†	2202.1	2663.1	811.03 ug/L	811.03 ppb	01:56:39
3	Sr 421.552†	3939.3	3646.1	22.434 ug/L	22.434 ppb	01:56:39
3	Sc 361.383	1014577.7	1014577.7	102.28 %		01:58:08
3	Y 371.029	1169068.8	1169068.8	135.94 %		01:58:08
3	Ag 328.068†	-4686.2	-4956.4	3.0495 ug/L	3.0495 ppb	01:58:13
3	As 188.979†	-51.7	-14.1	34.129 ug/L	34.129 ppb	01:58:33
3	B 249.677†	327.1	660.9	3.2468 ug/L	3.2468 ppb	01:58:13
3	Ba 233.527†	18789.3	18387.3	151.46 ug/L	151.46 ppb	01:58:13
3	Be 313.107†	370.7	5164.9	7.8663 ug/L	7.8663 ppb	01:58:13
3	Cd 226.502†	540.5	712.0	0.3983 ug/L	0.3983 ppb	01:58:33
3	Co 228.616†	427.8	487.3	3.8315 ug/L	3.8315 ppb	01:58:33
3	Cr 267.716†	6545.7	6330.6	68.578 ug/L	68.578 ppb	01:58:13
3	Cu 324.752†	17034.5	7685.1	25.726 ug/L	25.726 ppb	01:58:13
3	Mn 257.610†	2767850.5	2705647.4	3047.9 ug/L	3047.9 ppb	01:58:08
3	Mo 202.031†	446.3	425.7	34.962 ug/L	34.962 ppb	01:58:33
3	Ni 231.604†	1613.7	1497.3	36.236 ug/L	36.236 ppb	01:58:33
3	P 214.914†	932.3	662.8	307.18 ug/L	307.18 ppb	01:58:33
3	Pb 220.353†	452.2	487.3	55.260 ug/L	55.260 ppb	01:58:33
3	S 181.975 Axial†	85.4	40.7	51.558 ug/L	51.558 ppb	01:58:33
3	Sb 206.836†	52.7	16.7	-1.2112 ug/L	-1.2112 ppb	01:58:33
3	Se 196.026†	-329.0	-298.0	80.171 ug/L	80.171 ppb	01:58:33
3	Si 251.611†	583277.0	569885.2	17408 ug/L	17408 ppb	01:58:08
3	Sn 189.927†	-4.2	-5.2	0.7702 ug/L	0.7702 ppb	01:58:33
3	Ti 334.940†	1775691.0	1737165.6	2635.1 ug/L	2635.1 ppb	01:58:08
3	Tl 190.801†	-178.2	-129.2	-5.5271 ug/L	-5.5271 ppb	01:58:33
3	U 409.014†	-13782.0	-10681.3	-281.18 ug/L	-281.18 ppb	01:58:08
3	V 292.402†	5393.4	6739.5	30.318 ug/L	30.318 ppb	01:58:13
3	Zn 213.857†	48841.6	46833.2	420.14 ug/L	420.14 ppb	01:58:13
3	SiO2†	574787.3	561590.6	36626 ug/L	36626 ppb	01:58:50

Mean Data: 244628014|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	1004382.1	101.25 %		0.890				0.88%
Sc Radial	5400.4	102 %		5.2				5.08%
Y 371.029	1157031.8	134.54 %		1.212				0.90%
Y RADIAL	7683.3	139.1 %		5.11				3.67%
Ag 328.068†	-5011.9	3.6960 ug/L		1.45101	3.6960 ppb		1.45101	39.26%
Al 396.153Radial†	21376.5	17267 ug/L		1166.2	17267 ppb		1166.2	6.75%
As 188.979†	-17.6	33.386 ug/L		0.7162	33.386 ppb		0.7162	2.15%
B 249.677†	684.3	3.3435 ug/L		1.23000	3.3435 ppb		1.23000	36.79%
Ba 233.527†	18502.5	152.47 ug/L		1.081	152.47 ppb		1.081	0.71%
Be 313.107†	5258.7	7.9215 ug/L		0.05132	7.9215 ppb		0.05132	0.65%
Ca 317.933Radial†	1953.0	3251.0 ug/L		153.39	3251.0 ppb		153.39	4.72%
Cd 226.502†	719.3	0.1985 ug/L		0.43472	0.1985 ppb		0.43472	218.98%
Co 228.616†	491.1	3.8546 ug/L		0.04687	3.8546 ppb		0.04687	1.22%
Cr 267.716†	6390.8	69.268 ug/L		0.7737	69.268 ppb		0.7737	1.12%
Cu 324.752†	7809.3	26.222 ug/L		0.4608	26.222 ppb		0.4608	1.76%
Fe 238.204 Radial†	7924.0	75982 ug/L		5018.3	75982 ppb		5018.3	6.60%
K 766.490 Radial†	15173.0	2737.2 ug/L		208.31	2737.2 ppb		208.31	7.61%

Mg 279.077 IEC†	85.0	3166.5 ug/L	141.84	3166.5 ppb	141.84	4.48%
Mn 257.610†	2719953.3	3064.2 ug/L	14.16	3064.2 ppb	14.16	0.46%
Mo 202.031†	427.3	35.282 ug/L	0.6094	35.282 ppb	0.6094	1.73%
Na 589.592 Radial†	2775.1	845.15 ug/L	52.213	845.15 ppb	52.213	6.18%
Ni 231.604†	1505.9	36.444 ug/L	0.2063	36.444 ppb	0.2063	0.57%
P 214.914†	675.3	311.98 ug/L	4.239	311.98 ppb	4.239	1.36%
Pb 220.353†	490.8	55.559 ug/L	0.8472	55.559 ppb	0.8472	1.52%
S 181.975 Axial†	39.5	49.850 ug/L	2.4371	49.850 ppb	2.4371	4.89%
Sb 206.836†	20.3	-0.0270 ug/L	2.24606	-0.0270 ppb	2.24606	>999.9%
Se 196.026†	-304.8	85.442 ug/L	16.3471	85.442 ppb	16.3471	19.13%
Si 251.611†	572036.8	17474 ug/L	57.4	17474 ppb	57.4	0.33%
Sn 189.927†	-4.6	0.9342 ug/L	0.24040	0.9342 ppb	0.24040	25.73%
Sr 421.552†	3793.3	23.340 ug/L	1.7299	23.340 ppb	1.7299	7.41%
Ti 334.940†	1743249.4	2644.4 ug/L	8.12	2644.4 ppb	8.12	0.31%
Tl 190.801†	-126.1	-4.4003 ug/L	3.34261	-4.4003 ppb	3.34261	75.96%
U 409.014†	-10772.0	-283.81 ug/L	2.531	-283.81 ppb	2.531	0.89%
V 292.402†	6779.5	30.171 ug/L	0.7549	30.171 ppb	0.7549	2.50%
Zn 213.857†	47070.4	422.04 ug/L	1.645	422.04 ppb	1.645	0.39%
SiO2†	567489.5	37011 ug/L	336.4	37011 ppb	336.4	0.91%

Sequence No.: 74

Sample ID: 244628015|941795|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 82

Date Collected: 1/30/2010 02:01:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 244628015|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5556.5	5556.5	105 %		02:03:14
1	Y RADIAL	6954.7	6954.7	125.9 %		02:03:14
1	Al 396.153Radial†	107720.0	102362.9	82689 ug/L	82689 ppb	02:02:54
1	Ca 317.933Radial†	19719.8	18698.9	31127 ug/L	31127 ppb	02:02:54
1	Fe 238.204 Radial†	12454.1	11812.3	113270 ug/L	113270 ppb	02:02:54
1	K 766.490 Radial†	74122.6	67701.6	12213 ug/L	12213 ppb	02:02:54
1	Mg 279.077 IEC†	416.4	393.9	14923 ug/L	14923 ppb	02:03:14
1	Na 589.592 Radial†	1830.6	2325.4	708.20 ug/L	708.20 ppb	02:02:54
1	Sr 421.552†	41056.1	38906.8	239.41 ug/L	239.41 ppb	02:02:54
1	Sc 361.383	991549.8	991549.8	99.956 %		02:04:12
1	Y 371.029	1017232.6	1017232.6	118.29 %		02:04:12
1	Ag 328.068†	-7254.0	-7631.7	4.7868 ug/L	4.7868 ppb	02:04:17
1	As 188.979†	-31.2	5.3	54.093 ug/L	54.093 ppb	02:04:37
1	B 249.677†	1661.3	2003.1	27.483 ug/L	27.483 ppb	02:04:17
1	Ba 233.527†	111706.8	111772.3	910.38 ug/L	910.38 ppb	02:04:17
1	Be 313.107†	-3958.0	842.7	6.9568 ug/L	6.9568 ppb	02:04:17
1	Cd 226.502†	946.9	1130.8	1.0192 ug/L	1.0192 ppb	02:04:37
1	Co 228.616†	1830.0	1899.9	32.760 ug/L	32.760 ppb	02:04:37
1	Cr 267.716†	13816.7	13753.6	148.07 ug/L	148.07 ppb	02:04:17
1	Cu 324.752†	34225.1	25270.1	77.449 ug/L	77.449 ppb	02:04:17
1	Mn 257.610†	3100389.3	3101182.1	3495.9 ug/L	3495.9 ppb	02:04:12
1	Mo 202.031†	34.6	24.1	10.815 ug/L	10.815 ppb	02:04:37
1	Ni 231.604†	3860.5	3781.8	91.512 ug/L	91.512 ppb	02:04:37
1	P 214.914†	2397.3	2149.7	1103.1 ug/L	1103.1 ppb	02:04:37
1	Pb 220.353†	961.3	1006.9	128.44 ug/L	128.44 ppb	02:04:37
1	S 181.975 Axial†	1090.6	1048.4	1392.4 ug/L	1392.4 ppb	02:04:37
1	Sb 206.836†	79.0	44.2	5.3212 ug/L	5.3212 ppb	02:04:37
1	Se 196.026†	-526.5	-503.0	104.25 ug/L	104.25 ppb	02:04:37
1	Si 251.611†	924283.2	924285.9	28234 ug/L	28234 ppb	02:04:12
1	Sn 189.927†	-156.3	-157.5	-21.936 ug/L	-21.936 ppb	02:04:37
1	Ti 334.940†	1929160.7	1931023.4	2931.9 ug/L	2931.9 ppb	02:04:12
1	Tl 190.801†	-193.9	-148.9	-7.7588 ug/L	-7.7588 ppb	02:04:37
1	U 409.014†	-10493.8	-7704.6	-209.93 ug/L	-209.93 ppb	02:04:12
1	V 292.402†	27243.1	28721.3	167.17 ug/L	167.17 ppb	02:04:17
1	Zn 213.857†	37901.4	36997.3	326.05 ug/L	326.05 ppb	02:04:17
1	SiO2†	934912.5	934925.8	60976 ug/L	60976 ppb	02:05:46
2	Sc Radial	5524.1	5524.1	105 %		02:03:40
2	Y RADIAL	6900.7	6900.7	124.9 %		02:03:40
2	Al 396.153Radial†	107532.1	102782.8	83029 ug/L	83029 ppb	02:03:20
2	Ca 317.933Radial†	19705.1	18794.5	31286 ug/L	31286 ppb	02:03:20
2	Fe 238.204 Radial†	12384.3	11814.9	113290 ug/L	113290 ppb	02:03:20
2	K 766.490 Radial†	74272.2	68256.8	12313 ug/L	12313 ppb	02:03:20
2	Mg 279.077 IEC†	415.2	395.1	14965 ug/L	14965 ppb	02:03:40
2	Na 589.592 Radial†	1758.1	2266.3	690.20 ug/L	690.20 ppb	02:03:20
2	Sr 421.552†	40983.5	39066.0	240.39 ug/L	240.39 ppb	02:03:20
2	Sc 361.383	999870.2	999870.2	100.79 %		02:04:43
2	Y 371.029	1026163.6	1026163.6	119.33 %		02:04:43
2	Ag 328.068†	-7078.5	-7397.2	5.7802 ug/L	5.7802 ppb	02:04:48
2	As 188.979†	-27.7	9.0	55.610 ug/L	55.610 ppb	02:05:08
2	B 249.677†	1680.8	2008.6	27.606 ug/L	27.606 ppb	02:04:48
2	Ba 233.527†	110811.0	109953.6	895.63 ug/L	895.63 ppb	02:04:48
2	Be 313.107†	-4255.7	580.3	6.8614 ug/L	6.8614 ppb	02:04:48
2	Cd 226.502†	942.8	1118.9	0.8826 ug/L	0.8826 ppb	02:05:08
2	Co 228.616†	1839.5	1894.0	32.629 ug/L	32.629 ppb	02:05:08
2	Cr 267.716†	13644.2	13467.3	145.04 ug/L	145.04 ppb	02:04:48
2	Cu 324.752†	34303.6	25063.0	76.865 ug/L	76.865 ppb	02:04:48
2	Mn 257.610†	3120076.4	3094903.0	3488.8 ug/L	3488.8 ppb	02:04:43
2	Mo 202.031†	34.5	23.7	10.792 ug/L	10.792 ppb	02:05:08
2	Ni 231.604†	3839.7	3729.0	90.235 ug/L	90.235 ppb	02:05:08

2	P 214.914†	2364.3	2097.0	1074.2 ug/L	1074.2 ppb	02:05:08
2	Pb 220.353†	974.5	1011.9	129.12 ug/L	129.12 ppb	02:05:08
2	S 181.975 Axial†	1074.3	1023.1	1358.4 ug/L	1358.4 ppb	02:05:08
2	Sb 206.836†	67.8	32.4	1.5410 ug/L	1.5410 ppb	02:05:08
2	Se 196.026†	-506.0	-478.3	117.88 ug/L	117.88 ppb	02:05:08
2	Si 251.611†	931348.7	923601.0	28214 ug/L	28214 ppb	02:04:43
2	Sn 189.927†	-153.4	-153.3	-21.155 ug/L	-21.155 ppb	02:05:08
2	Ti 334.940†	1945430.8	1931104.8	2932.0 ug/L	2932.0 ppb	02:04:43
2	Tl 190.801†	-182.1	-135.6	-3.4832 ug/L	-3.4832 ppb	02:05:08
2	U 409.014†	-10513.1	-7636.4	-208.18 ug/L	-208.18 ppb	02:04:43
2	V 292.402†	27228.8	28480.3	165.60 ug/L	165.60 ppb	02:04:48
2	Zn 213.857†	37701.6	36483.5	321.37 ug/L	321.37 ppb	02:04:48
2	SiO2†	922278.1	914607.8	59651 ug/L	59651 ppb	02:05:52
3	Sc Radial	5501.0	5501.0	104 %		02:04:05
3	Y RADIAL	6869.8	6869.8	124.4 %		02:04:05
3	Al 396.153Radial†	107371.5	103059.3	83252 ug/L	83252 ppb	02:03:45
3	Ca 317.933Radial†	19700.2	18868.7	31410 ug/L	31410 ppb	02:03:45
3	Fe 238.204 Radial†	12392.5	11872.4	113840 ug/L	113840 ppb	02:03:45
3	K 766.490 Radial†	73985.7	68279.4	12317 ug/L	12317 ppb	02:03:45
3	Mg 279.077 IEC†	407.5	389.4	14747 ug/L	14747 ppb	02:04:05
3	Na 589.592 Radial†	1718.4	2235.3	680.76 ug/L	680.76 ppb	02:03:45
3	Sr 421.552†	40875.0	39126.0	240.75 ug/L	240.75 ppb	02:03:45
3	Sc 361.383	997599.9	997599.9	100.57 %		02:05:14
3	Y 371.029	1025907.7	1025907.7	119.30 %		02:05:14
3	Ag 328.068†	-7089.6	-7424.2	5.8456 ug/L	5.8456 ppb	02:05:19
3	As 188.979†	-22.0	14.6	58.042 ug/L	58.042 ppb	02:05:39
3	B 249.677†	1654.4	1986.2	27.000 ug/L	27.000 ppb	02:05:19
3	Ba 233.527†	110819.5	110212.2	897.74 ug/L	897.74 ppb	02:05:19
3	Be 313.107†	-4192.6	633.5	6.8799 ug/L	6.8799 ppb	02:05:19
3	Cd 226.502†	968.6	1146.7	1.1375 ug/L	1.1375 ppb	02:05:39
3	Co 228.616†	1870.5	1929.0	33.362 ug/L	33.362 ppb	02:05:39
3	Cr 267.716†	13597.8	13452.0	144.89 ug/L	144.89 ppb	02:05:19
3	Cu 324.752†	34080.7	24918.8	76.488 ug/L	76.488 ppb	02:05:19
3	Mn 257.610†	3110915.5	3092837.9	3486.6 ug/L	3486.6 ppb	02:05:14
3	Mo 202.031†	29.4	18.6	10.492 ug/L	10.492 ppb	02:05:39
3	Ni 231.604†	3873.2	3770.9	91.249 ug/L	91.249 ppb	02:05:39
3	P 214.914†	2379.9	2117.9	1085.4 ug/L	1085.4 ppb	02:05:39
3	Pb 220.353†	961.6	1001.4	127.85 ug/L	127.85 ppb	02:05:39
3	S 181.975 Axial†	1104.3	1055.4	1401.7 ug/L	1401.7 ppb	02:05:39
3	Sb 206.836†	82.8	47.5	6.4349 ug/L	6.4349 ppb	02:05:39
3	Se 196.026†	-526.7	-500.0	107.81 ug/L	107.81 ppb	02:05:39
3	Si 251.611†	928549.1	922919.8	28193 ug/L	28193 ppb	02:05:14
3	Sn 189.927†	-137.9	-138.3	-18.390 ug/L	-18.390 ppb	02:05:39
3	Ti 334.940†	1940739.1	1930831.8	2931.6 ug/L	2931.6 ppb	02:05:14
3	Tl 190.801†	-189.2	-143.1	-5.9305 ug/L	-5.9305 ppb	02:05:39
3	U 409.014†	-10540.0	-7686.9	-209.53 ug/L	-209.53 ppb	02:05:14
3	V 292.402†	27251.0	28563.9	166.05 ug/L	166.05 ppb	02:05:19
3	Zn 213.857†	37702.9	36569.9	322.10 ug/L	322.10 ppb	02:05:19
3	SiO2†	917819.7	912256.7	59498 ug/L	59498 ppb	02:05:58

Mean Data: 244628015|941795|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	996340.0	100.44 %		0.434				0.43%
Sc Radial	5527.2	105 %		0.5				0.50%
Y 371.029	1023101.3	118.97 %		0.591				0.50%
Y RADIAL	6908.4	125.1 %		0.78				0.62%
Ag 328.068†	-7484.4	5.4709 ug/L		0.59333	5.4709 ppb	0.59333		10.85%
Al 396.153Radial†	102735.0	82990 ug/L		283.3	82990 ppb	283.3		0.34%
As 188.979†	9.7	55.915 ug/L		1.9919	55.915 ppb	1.9919		3.56%
B 249.677†	1999.3	27.363 ug/L		0.3206	27.363 ppb	0.3206		1.17%
Ba 233.527†	110646.0	901.25 ug/L		7.977	901.25 ppb	7.977		0.89%
Be 313.107†	685.5	6.8994 ug/L		0.05063	6.8994 ppb	0.05063		0.73%
Ca 317.933Radial†	18787.4	31274 ug/L		141.8	31274 ppb	141.8		0.45%
Cd 226.502†	1132.1	1.0131 ug/L		0.12754	1.0131 ppb	0.12754		12.59%
Co 228.616†	1907.6	32.917 ug/L		0.3908	32.917 ppb	0.3908		1.19%
Cr 267.716†	13557.6	146.00 ug/L		1.795	146.00 ppb	1.795		1.23%
Cu 324.752†	25083.9	76.934 ug/L		0.4844	76.934 ppb	0.4844		0.63%
Fe 238.204 Radial†	11833.2	113470 ug/L		325.5	113470 ppb	325.5		0.29%
K 766.490 Radial†	68079.3	12281 ug/L		59.1	12281 ppb	59.1		0.48%

Mg 279.077 IEC†	392.8	14878 ug/L	115.5	14878 ppb	115.5	0.78%
Mn 257.610†	3096307.6	3490.4 ug/L	4.86	3490.4 ppb	4.86	0.14%
Mo 202.031†	22.1	10.700 ug/L	0.1803	10.700 ppb	0.1803	1.69%
Na 589.592 Radial†	2275.7	693.05 ug/L	13.936	693.05 ppb	13.936	2.01%
Ni 231.604†	3760.6	90.999 ug/L	0.6747	90.999 ppb	0.6747	0.74%
P 214.914†	2121.5	1087.6 ug/L	14.60	1087.6 ppb	14.60	1.34%
Pb 220.353†	1006.7	128.47 ug/L	0.637	128.47 ppb	0.637	0.50%
S 181.975 Axial†	1042.3	1384.2 ug/L	22.81	1384.2 ppb	22.81	1.65%
Sb 206.836†	41.4	4.4324 ug/L	2.56516	4.4324 ppb	2.56516	57.87%
Se 196.026†	-493.8	109.98 ug/L	7.069	109.98 ppb	7.069	6.43%
Si 251.611†	923602.2	28214 ug/L	20.9	28214 ppb	20.9	0.07%
Sn 189.927†	-149.7	-20.494 ug/L	1.8630	-20.494 ppb	1.8630	9.09%
Sr 421.552†	39032.9	240.18 ug/L	0.696	240.18 ppb	0.696	0.29%
Ti 334.940†	1930986.7	2931.8 ug/L	0.19	2931.8 ppb	0.19	0.01%
Tl 190.801†	-142.5	-5.7242 ug/L	2.14525	-5.7242 ppb	2.14525	37.48%
U 409.014†	-7676.0	-209.22 ug/L	0.915	-209.22 ppb	0.915	0.44%
V 292.402†	28588.5	166.27 ug/L	0.807	166.27 ppb	0.807	0.49%
Zn 213.857†	36683.6	323.17 ug/L	2.520	323.17 ppb	2.520	0.78%
SiO2†	920596.8	60042 ug/L	813.0	60042 ppb	813.0	1.35%

Sequence No.: 75
 Sample ID: 244628016|941795|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 83
 Date Collected: 1/30/2010 02:08:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 244628016|941795|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5639.2	5639.2	107 %		02:10:02
1	Y RADIAL	7515.1	7515.1	136.1 %		02:10:02
1	Al 396.153Radial†	22172.9	20846.3	16840 ug/L	16840 ppb	02:10:02
1	Ca 317.933Radial†	2460.1	2280.4	3796.0 ug/L	3796.0 ppb	02:10:22
1	Fe 238.204 Radial†	8555.3	7992.2	76635 ug/L	76635 ppb	02:10:02
1	K 766.490 Radial†	18280.2	14437.2	2603.7 ug/L	2603.7 ppb	02:10:02
1	Mg 279.077 IEC†	80.9	74.3	2755.9 ug/L	2755.9 ppb	02:10:22
1	Na 589.592 Radial†	6362.7	6538.9	1991.4 ug/L	1991.4 ppb	02:10:02
1	Sr 421.552†	4786.6	4410.4	27.137 ug/L	27.137 ppb	02:10:02
1	Sc 361.383	1006815.1	1006815.1	101.49 %		02:11:19
1	Y 371.029	1097627.3	1097627.3	127.64 %		02:11:19
1	Ag 328.068†	-4885.2	-5187.8	3.1485 ug/L	3.1485 ppb	02:11:25
1	As 188.979†	-66.4	-28.9	26.790 ug/L	26.790 ppb	02:11:45
1	B 249.677†	359.7	695.5	3.4929 ug/L	3.4929 ppb	02:11:25
1	Ba 233.527†	14428.9	14232.7	117.86 ug/L	117.86 ppb	02:11:25
1	Be 313.107†	-4111.6	751.5	5.7058 ug/L	5.7058 ppb	02:11:25
1	Cd 226.502†	587.5	762.4	0.6061 ug/L	0.6061 ppb	02:11:45
1	Co 228.616†	429.0	491.7	4.3181 ug/L	4.3181 ppb	02:11:45
1	Cr 267.716†	2837.0	2725.9	30.501 ug/L	30.501 ppb	02:11:45
1	Cu 324.752†	17186.9	7963.6	26.687 ug/L	26.687 ppb	02:11:25
1	Mn 257.610†	2820095.9	2777988.5	3129.5 ug/L	3129.5 ppb	02:11:19
1	Mo 202.031†	19.2	8.3	6.5676 ug/L	6.5676 ppb	02:11:45
1	Ni 231.604†	913.6	819.7	19.835 ug/L	19.835 ppb	02:11:45
1	P 214.914†	1758.0	1483.4	757.87 ug/L	757.87 ppb	02:11:45
1	Pb 220.353†	665.1	700.4	80.542 ug/L	80.542 ppb	02:11:45
1	S 181.975 Axial†	167.0	121.8	160.37 ug/L	160.37 ppb	02:11:45
1	Sb 206.836†	52.4	16.7	-0.9651 ug/L	-0.9651 ppb	02:11:45
1	Se 196.026†	-338.7	-310.0	84.647 ug/L	84.647 ppb	02:11:45
1	Si 251.611†	566533.1	557784.9	17039 ug/L	17039 ppb	02:11:19
1	Sn 189.927†	-19.8	-20.6	-1.8688 ug/L	-1.8688 ppb	02:11:45
1	Ti 334.940†	1599935.3	1577384.5	2392.9 ug/L	2392.9 ppb	02:11:19
1	Tl 190.801†	-166.2	-118.7	-3.7659 ug/L	-3.7659 ppb	02:11:45
1	U 409.014†	-13414.2	-10422.8	-274.88 ug/L	-274.88 ppb	02:11:19
1	V 292.402†	5475.8	6861.4	30.492 ug/L	30.492 ppb	02:11:45
1	Zn 213.857†	54073.1	52355.9	470.33 ug/L	470.33 ppb	02:11:25
1	SiO2†	564321.7	555612.1	36237 ug/L	36237 ppb	02:12:53
2	Sc Radial	5636.0	5636.0	107 %		02:10:27
2	Y RADIAL	7539.6	7539.6	136.5 %		02:10:27
2	Al 396.153Radial†	22117.0	20805.9	16807 ug/L	16807 ppb	02:10:27
2	Ca 317.933Radial†	2462.9	2284.3	3802.5 ug/L	3802.5 ppb	02:10:47
2	Fe 238.204 Radial†	8559.0	8000.2	76712 ug/L	76712 ppb	02:10:27
2	K 766.490 Radial†	18292.8	14458.8	2607.6 ug/L	2607.6 ppb	02:10:27
2	Mg 279.077 IEC†	83.7	76.9	2857.1 ug/L	2857.1 ppb	02:10:47
2	Na 589.592 Radial†	6261.2	6447.4	1963.5 ug/L	1963.5 ppb	02:10:27
2	Sr 421.552†	4728.8	4358.9	26.819 ug/L	26.819 ppb	02:10:27
2	Sc 361.383	1006542.8	1006542.8	101.47 %		02:11:51
2	Y 371.029	1097848.1	1097848.1	127.66 %		02:11:51
2	Ag 328.068†	-4838.3	-5142.9	3.3597 ug/L	3.3597 ppb	02:11:56
2	As 188.979†	-68.3	-30.8	25.964 ug/L	25.964 ppb	02:12:16
2	B 249.677†	267.7	604.9	1.4021 ug/L	1.4021 ppb	02:11:56
2	Ba 233.527†	14314.0	14123.4	116.98 ug/L	116.98 ppb	02:11:56
2	Be 313.107†	-4235.8	627.9	5.6454 ug/L	5.6454 ppb	02:11:56
2	Cd 226.502†	579.6	754.8	0.5136 ug/L	0.5136 ppb	02:12:16
2	Co 228.616†	427.0	489.9	4.2928 ug/L	4.2928 ppb	02:12:16
2	Cr 267.716†	2842.3	2731.9	30.563 ug/L	30.563 ppb	02:12:16
2	Cu 324.752†	17071.8	7854.8	26.381 ug/L	26.381 ppb	02:11:56
2	Mn 257.610†	2812702.5	2771453.9	3122.2 ug/L	3122.2 ppb	02:11:51
2	Mo 202.031†	28.1	17.1	7.1779 ug/L	7.1779 ppb	02:12:16
2	Ni 231.604†	904.6	811.1	19.626 ug/L	19.626 ppb	02:12:16

2	P 214.914†	1759.1	1485.0	758.73 ug/L	758.73 ppb	02:12:16
2	Pb 220.353†	659.1	694.7	79.839 ug/L	79.839 ppb	02:12:16
2	S 181.975 Axial†	164.7	119.6	157.44 ug/L	157.44 ppb	02:12:16
2	Sb 206.836†	49.5	14.0	-1.8134 ug/L	-1.8134 ppb	02:12:16
2	Se 196.026†	-350.6	-321.9	78.422 ug/L	78.422 ppb	02:12:16
2	Si 251.611†	564412.7	555846.3	16980 ug/L	16980 ppb	02:11:51
2	Sn 189.927†	-17.9	-18.8	-1.5353 ug/L	-1.5353 ppb	02:12:16
2	Ti 334.940†	1594986.2	1572933.5	2386.1 ug/L	2386.1 ppb	02:11:51
2	Tl 190.801†	-168.2	-120.8	-4.5307 ug/L	-4.5307 ppb	02:12:16
2	U 409.014†	-13202.6	-10217.9	-269.66 ug/L	-269.66 ppb	02:11:51
2	V 292.402†	5473.4	6860.5	30.503 ug/L	30.503 ppb	02:12:16
2	Zn 213.857†	53570.9	51875.4	465.94 ug/L	465.94 ppb	02:11:56
2	SiO2†	566275.8	557688.4	36373 ug/L	36373 ppb	02:12:58
3	Sc Radial	5669.9	5669.9	107 %		02:10:52
3	Y RADIAL	7526.0	7526.0	136.3 %		02:10:52
3	Al 396.153Radial†	22243.8	20800.1	16802 ug/L	16802 ppb	02:10:52
3	Ca 317.933Radial†	2452.0	2260.3	3762.7 ug/L	3762.7 ppb	02:11:12
3	Fe 238.204 Radial†	8618.6	8007.7	76784 ug/L	76784 ppb	02:10:52
3	K 766.490 Radial†	18400.2	14456.3	2607.2 ug/L	2607.2 ppb	02:10:52
3	Mg 279.077 IEC†	83.7	76.5	2842.0 ug/L	2842.0 ppb	02:11:12
3	Na 589.592 Radial†	6386.3	6528.7	1988.3 ug/L	1988.3 ppb	02:10:52
3	Sr 421.552†	4733.6	4336.9	26.684 ug/L	26.684 ppb	02:10:52
3	Sc 361.383	995907.7	995907.7	100.40 %		02:12:22
3	Y 371.029	1091919.3	1091919.3	126.97 %		02:12:22
3	Ag 328.068†	-4779.3	-5135.0	3.4281 ug/L	3.4281 ppb	02:12:27
3	As 188.979†	-69.9	-33.1	25.363 ug/L	25.363 ppb	02:12:47
3	B 249.677†	350.0	689.7	3.3374 ug/L	3.3374 ppb	02:12:27
3	Ba 233.527†	14260.6	14220.8	117.77 ug/L	117.77 ppb	02:12:27
3	Be 313.107†	-4280.8	538.6	5.7015 ug/L	5.7015 ppb	02:12:27
3	Cd 226.502†	586.6	767.8	0.6511 ug/L	0.6511 ppb	02:12:47
3	Co 228.616†	423.0	490.4	4.2233 ug/L	4.2233 ppb	02:12:47
3	Cr 267.716†	2847.1	2766.6	30.937 ug/L	30.937 ppb	02:12:47
3	Cu 324.752†	16895.8	7859.2	26.402 ug/L	26.402 ppb	02:12:27
3	Mn 257.610†	2830081.1	2818365.8	3174.9 ug/L	3174.9 ppb	02:12:22
3	Mo 202.031†	39.9	29.2	8.0079 ug/L	8.0079 ppb	02:12:47
3	Ni 231.604†	901.4	817.4	19.777 ug/L	19.777 ppb	02:12:47
3	P 214.914†	1785.7	1530.0	783.55 ug/L	783.55 ppb	02:12:47
3	Pb 220.353†	680.3	722.8	83.215 ug/L	83.215 ppb	02:12:47
3	S 181.975 Axial†	169.5	126.1	166.15 ug/L	166.15 ppb	02:12:47
3	Sb 206.836†	49.9	14.8	-1.6442 ug/L	-1.6442 ppb	02:12:47
3	Se 196.026†	-361.8	-336.6	70.559 ug/L	70.559 ppb	02:12:47
3	Si 251.611†	568013.1	565372.6	17271 ug/L	17271 ppb	02:12:22
3	Sn 189.927†	-19.3	-20.3	-1.8169 ug/L	-1.8169 ppb	02:12:47
3	Ti 334.940†	1603980.0	1598678.1	2425.2 ug/L	2425.2 ppb	02:12:22
3	Tl 190.801†	-168.5	-122.8	-4.6213 ug/L	-4.6213 ppb	02:12:47
3	U 409.014†	-13413.9	-10567.2	-278.59 ug/L	-278.59 ppb	02:12:22
3	V 292.402†	5563.8	7008.1	31.406 ug/L	31.406 ppb	02:12:47
3	Zn 213.857†	53449.0	52317.8	469.97 ug/L	469.97 ppb	02:12:27
3	SiO2†	567686.0	565052.7	36853 ug/L	36853 ppb	02:13:04

Mean Data: 244628016|941795|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1003088.5	101.12 %		0.627			0.62%
Sc Radial	5648.4	107 %		0.4			0.33%
Y 371.029	1095798.3	127.42 %		0.391			0.31%
Y RADIAL	7526.9	136.3 %		0.22			0.16%
Ag 328.068†	-5155.2	3.3121 ug/L		0.14578	3.3121 ppb	0.14578	4.40%
Al 396.153Radial†	20817.4	16816 ug/L		20.4	16816 ppb	20.4	0.12%
As 188.979†	-31.0	26.039 ug/L		0.7161	26.039 ppb	0.7161	2.75%
B 249.677†	663.4	2.7441 ug/L		1.16485	2.7441 ppb	1.16485	42.45%
Ba 233.527†	14192.3	117.54 ug/L		0.487	117.54 ppb	0.487	0.41%
Be 313.107†	639.3	5.6842 ug/L		0.03368	5.6842 ppb	0.03368	0.59%
Ca 317.933Radial†	2275.0	3787.0 ug/L		21.36	3787.0 ppb	21.36	0.56%
Cd 226.502†	761.6	0.5903 ug/L		0.07012	0.5903 ppb	0.07012	11.88%
Co 228.616†	490.7	4.2781 ug/L		0.04906	4.2781 ppb	0.04906	1.15%
Cr 267.716†	2741.5	30.667 ug/L		0.2358	30.667 ppb	0.2358	0.77%
Cu 324.752†	7892.5	26.490 ug/L		0.1710	26.490 ppb	0.1710	0.65%
Fe 238.204 Radial†	8000.0	76711 ug/L		74.5	76711 ppb	74.5	0.10%
K 766.490 Radial†	14450.8	2606.2 ug/L		2.14	2606.2 ppb	2.14	0.08%

Mg 279.077 IEC†	75.9	2818.3 ug/L	54.57	2818.3 ppb	54.57	1.94%
Mn 257.610†	2789269.4	3142.2 ug/L	28.56	3142.2 ppb	28.56	0.91%
Mo 202.031†	18.2	7.2511 ug/L	0.72291	7.2511 ppb	0.72291	9.97%
Na 589.592 Radial†	6505.0	1981.1 ug/L	15.27	1981.1 ppb	15.27	0.77%
Ni 231.604†	816.1	19.746 ug/L	0.1079	19.746 ppb	0.1079	0.55%
P 214.914†	1499.4	766.72 ug/L	14.581	766.72 ppb	14.581	1.90%
Pb 220.353†	705.9	81.199 ug/L	1.7809	81.199 ppb	1.7809	2.19%
S 181.975 Axial†	122.5	161.32 ug/L	4.434	161.32 ppb	4.434	2.75%
Sb 206.836†	15.2	-1.4742 ug/L	0.44896	-1.4742 ppb	0.44896	30.45%
Se 196.026†	-322.8	77.876 ug/L	7.0597	77.876 ppb	7.0597	9.07%
Si 251.611†	559667.9	17096 ug/L	153.8	17096 ppb	153.8	0.90%
Sn 189.927†	-19.9	-1.7403 ug/L	0.17947	-1.7403 ppb	0.17947	10.31%
Sr 421.552†	4368.7	26.880 ug/L	0.2323	26.880 ppb	0.2323	0.86%
Ti 334.940†	1582998.7	2401.4 ug/L	20.87	2401.4 ppb	20.87	0.87%
Tl 190.801†	-120.8	-4.3060 ug/L	0.46990	-4.3060 ppb	0.46990	10.91%
U 409.014†	-10402.6	-274.38 ug/L	4.485	-274.38 ppb	4.485	1.63%
V 292.402†	6910.0	30.800 ug/L	0.5245	30.800 ppb	0.5245	1.70%
Zn 213.857†	52183.0	468.74 ug/L	2.438	468.74 ppb	2.438	0.52%
SiO2†	559451.1	36488 ug/L	323.5	36488 ppb	323.5	0.89%

Sequence No.: 76

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 1/30/2010 02:15:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5500.2	5500.2	104 %		02:17:07
1	Y RADIAL	5786.8	5786.8	104.8 %		02:17:07
1	Al 396.153Radial†	6100.6	5957.3	4787.6 ug/L	4787.6 ppb	02:17:07
1	Ca 317.933Radial†	3194.6	3042.9	5065.3 ug/L	5065.3 ppb	02:17:27
1	Fe 238.204 Radial†	579.7	545.9	5250.0 ug/L	5250.0 ppb	02:17:27
1	K 766.490 Radial†	31750.7	27787.4	5011.3 ug/L	5011.3 ppb	02:17:07
1	Mg 279.077 IEC†	145.1	137.8	5262.0 ug/L	5262.0 ppb	02:17:27
1	Na 589.592 Radial†	33683.1	32889.4	10016 ug/L	10016 ppb	02:17:07
1	Sr 421.552†	84405.6	80877.5	498.11 ug/L	498.11 ppb	02:17:07
1	Sc 361.383	977815.3	977815.3	98.572 %		02:18:24
1	Y 371.029	837961.0	837961.0	97.442 %		02:18:24
1	Ag 328.068†	120458.7	121829.9	520.30 ug/L	520.30 ppb	02:18:30
1	As 188.979†	1186.3	1240.0	514.24 ug/L	514.24 ppb	02:18:50
1	B 249.677†	21580.6	22234.5	508.17 ug/L	508.17 ppb	02:18:30
1	Ba 233.527†	62770.8	63696.9	517.91 ug/L	517.91 ppb	02:18:30
1	Be 313.107†	1389300.0	1414236.1	517.19 ug/L	517.19 ppb	02:18:24
1	Cd 226.502†	45174.3	46012.5	516.59 ug/L	516.59 ppb	02:18:30
1	Co 228.616†	24112.8	24531.3	518.54 ug/L	518.54 ppb	02:18:30
1	Cr 267.716†	48066.2	48693.5	515.85 ug/L	515.85 ppb	02:18:30
1	Cu 324.752†	189233.4	183005.6	516.67 ug/L	516.67 ppb	02:18:30
1	Mn 257.610†	456695.0	462743.2	520.36 ug/L	520.36 ppb	02:18:24
1	Mo 202.031†	7336.6	7432.3	510.87 ug/L	510.87 ppb	02:18:50
1	Ni 231.604†	21182.7	21409.2	517.89 ug/L	517.89 ppb	02:18:30
1	P 214.914†	4802.0	4622.9	2454.3 ug/L	2454.3 ppb	02:18:50
1	Pb 220.353†	4155.2	4260.5	513.83 ug/L	513.83 ppb	02:18:50
1	S 181.975 Axial†	808.6	777.6	1043.3 ug/L	1043.3 ppb	02:18:50
1	Sb 206.836†	1599.5	1587.8	528.37 ug/L	528.37 ppb	02:18:50
1	Se 196.026†	905.5	942.3	535.43 ug/L	535.43 ppb	02:18:50
1	Si 251.611†	83940.0	84752.8	2582.7 ug/L	2582.7 ppb	02:18:30
1	Sn 189.927†	2749.2	2787.9	506.56 ug/L	506.56 ppb	02:18:50
1	Ti 334.940†	336749.8	342644.5	519.54 ug/L	519.54 ppb	02:18:24
1	Tl 190.801†	1519.2	1586.3	516.89 ug/L	516.89 ppb	02:18:50
1	U 409.014†	17596.3	20645.1	525.30 ug/L	525.30 ppb	02:18:30
1	V 292.402†	76727.1	79305.2	522.84 ug/L	522.84 ppb	02:18:30
1	Zn 213.857†	56579.5	56478.6	511.04 ug/L	511.04 ppb	02:18:30
1	SiO2†	84026.8	84846.8	5519.8 ug/L	5519.8 ppb	02:19:58
2	Sc Radial	5599.0	5599.0	106 %		02:17:32
2	Y RADIAL	5873.5	5873.5	106.3 %		02:17:32
2	Al 396.153Radial†	6259.2	6003.5	4824.7 ug/L	4824.7 ppb	02:17:32
2	Ca 317.933Radial†	3172.1	2967.6	4940.0 ug/L	4940.0 ppb	02:17:52
2	Fe 238.204 Radial†	573.4	530.1	5099.0 ug/L	5099.0 ppb	02:17:52
2	K 766.490 Radial†	32420.9	27881.3	5028.3 ug/L	5028.3 ppb	02:17:32
2	Mg 279.077 IEC†	141.7	132.2	5046.6 ug/L	5046.6 ppb	02:17:52
2	Na 589.592 Radial†	34522.2	33109.6	10083 ug/L	10083 ppb	02:17:32
2	Sr 421.552†	86554.4	81472.8	501.78 ug/L	501.78 ppb	02:17:32
2	Sc 361.383	977926.1	977926.1	98.583 %		02:18:56
2	Y 371.029	839218.7	839218.7	97.588 %		02:18:56
2	Ag 328.068†	121583.2	122956.6	525.04 ug/L	525.04 ppb	02:19:01
2	As 188.979†	1190.5	1244.1	515.90 ug/L	515.90 ppb	02:19:21
2	B 249.677†	21808.9	22463.5	513.45 ug/L	513.45 ppb	02:19:01
2	Ba 233.527†	63191.9	64116.8	521.31 ug/L	521.31 ppb	02:19:01
2	Be 313.107†	1396741.0	1421624.3	519.89 ug/L	519.89 ppb	02:18:56
2	Cd 226.502†	45463.2	46300.3	519.84 ug/L	519.84 ppb	02:19:01
2	Co 228.616†	24252.4	24670.1	521.48 ug/L	521.48 ppb	02:19:01
2	Cr 267.716†	48424.2	49051.1	519.63 ug/L	519.63 ppb	02:19:01
2	Cu 324.752†	191492.3	185275.2	523.06 ug/L	523.06 ppb	02:19:01
2	Mn 257.610†	458582.5	464605.4	522.45 ug/L	522.45 ppb	02:18:56
2	Mo 202.031†	7395.0	7490.8	514.86 ug/L	514.86 ppb	02:19:21
2	Ni 231.604†	21248.1	21473.2	519.44 ug/L	519.44 ppb	02:19:01

2	P 214.914†	4833.4	4654.2	2470.5 ug/L	2470.5 ppb	02:19:21
2	Pb 220.353†	4162.1	4267.0	514.64 ug/L	514.64 ppb	02:19:21
2	S 181.975 Axial†	807.0	775.8	1041.0 ug/L	1041.0 ppb	02:19:21
2	Sb 206.836†	1603.0	1591.1	529.57 ug/L	529.57 ppb	02:19:21
2	Se 196.026†	896.2	932.8	529.71 ug/L	529.71 ppb	02:19:21
2	Si 251.611†	84648.4	85461.8	2604.3 ug/L	2604.3 ppb	02:19:01
2	Sn 189.927†	2772.6	2811.3	510.79 ug/L	510.79 ppb	02:19:21
2	Ti 334.940†	338230.3	344107.6	521.76 ug/L	521.76 ppb	02:18:56
2	Tl 190.801†	1524.7	1591.6	518.63 ug/L	518.63 ppb	02:19:21
2	U 409.014†	17821.8	20871.8	531.09 ug/L	531.09 ppb	02:19:01
2	V 292.402†	77204.5	79780.7	526.01 ug/L	526.01 ppb	02:19:01
2	Zn 213.857†	56969.5	56867.7	514.59 ug/L	514.59 ppb	02:19:01
2	SiO2†	83579.0	84382.9	5489.5 ug/L	5489.5 ppb	02:20:03
3	Sc Radial	5400.0	5400.0	102 %		02:17:57
3	Y RADIAL	5626.6	5626.6	101.9 %		02:17:57
3	Al 396.153Radial†	6162.1	6125.9	4923.6 ug/L	4923.6 ppb	02:17:57
3	Ca 317.933Radial†	3183.4	3088.8	5141.8 ug/L	5141.8 ppb	02:18:17
3	Fe 238.204 Radial†	575.1	551.7	5305.6 ug/L	5305.6 ppb	02:18:17
3	K 766.490 Radial†	31883.8	28482.3	5136.7 ug/L	5136.7 ppb	02:17:57
3	Mg 279.077 IEC†	145.8	141.0	5384.3 ug/L	5384.3 ppb	02:18:17
3	Na 589.592 Radial†	33924.1	33724.1	10271 ug/L	10271 ppb	02:17:57
3	Sr 421.552†	85039.5	82998.2	511.17 ug/L	511.17 ppb	02:17:57
3	Sc 361.383	978334.4	978334.4	98.624 %		02:19:27
3	Y 371.029	838985.3	838985.3	97.561 %		02:19:27
3	Ag 328.068†	120707.3	122017.1	521.12 ug/L	521.12 ppb	02:19:32
3	As 188.979†	1187.2	1240.3	514.36 ug/L	514.36 ppb	02:19:52
3	B 249.677†	21733.2	22377.5	511.44 ug/L	511.44 ppb	02:19:32
3	Ba 233.527†	62966.4	63861.4	519.24 ug/L	519.24 ppb	02:19:32
3	Be 313.107†	1397315.8	1421615.9	519.89 ug/L	519.89 ppb	02:19:27
3	Cd 226.502†	45347.9	46164.2	518.29 ug/L	518.29 ppb	02:19:32
3	Co 228.616†	24235.0	24642.3	520.88 ug/L	520.88 ppb	02:19:32
3	Cr 267.716†	48217.5	48821.1	517.20 ug/L	517.20 ppb	02:19:32
3	Cu 324.752†	189535.5	183210.1	517.25 ug/L	517.25 ppb	02:19:32
3	Mn 257.610†	459559.5	465401.9	523.35 ug/L	523.35 ppb	02:19:27
3	Mo 202.031†	7398.9	7491.5	514.93 ug/L	514.93 ppb	02:19:52
3	Ni 231.604†	21230.9	21446.7	518.80 ug/L	518.80 ppb	02:19:32
3	P 214.914†	4829.3	4648.0	2468.1 ug/L	2468.1 ppb	02:19:52
3	Pb 220.353†	4179.9	4283.4	516.61 ug/L	516.61 ppb	02:19:52
3	S 181.975 Axial†	809.3	777.9	1043.7 ug/L	1043.7 ppb	02:19:52
3	Sb 206.836†	1605.0	1592.6	530.03 ug/L	530.03 ppb	02:19:52
3	Se 196.026†	909.2	945.6	537.42 ug/L	537.42 ppb	02:19:52
3	Si 251.611†	84173.8	84944.7	2588.5 ug/L	2588.5 ppb	02:19:32
3	Sn 189.927†	2774.6	2812.2	510.97 ug/L	510.97 ppb	02:19:52
3	Ti 334.940†	338211.8	343945.7	521.52 ug/L	521.52 ppb	02:19:27
3	Tl 190.801†	1531.9	1598.3	520.81 ug/L	520.81 ppb	02:19:52
3	U 409.014†	17459.0	20496.4	521.49 ug/L	521.49 ppb	02:19:32
3	V 292.402†	76792.9	79330.6	523.05 ug/L	523.05 ppb	02:19:32
3	Zn 213.857†	56830.9	56703.1	513.08 ug/L	513.08 ppb	02:19:32
3	SiO2†	83284.3	84048.8	5467.7 ug/L	5467.7 ppb	02:20:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	978025.3	98.593 %		0.0276			0.03%
Sc Radial	5499.8	104 %		1.9			1.81%
Y 371.029	838721.7	97.530 %		0.0778			0.08%
Y RADIAL	5762.3	104.3 %		2.27			2.17%
Ag 328.068†	122267.9	522.15 ug/L		2.536	522.15 ppb	2.536	0.49%
QC value within limits for Ag 328.068 Recovery = 104.43%							
Al 396.153Radial†	6028.9	4845.3 ug/L		70.31	4845.3 ppb	70.31	1.45%
QC value within limits for Al 396.153Radial Recovery = 96.91%							
As 188.979†	1241.5	514.83 ug/L		0.925	514.83 ppb	0.925	0.18%
QC value within limits for As 188.979 Recovery = 102.97%							
B 249.677†	22358.5	511.02 ug/L		2.663	511.02 ppb	2.663	0.52%
QC value within limits for B 249.677 Recovery = 102.20%							
Ba 233.527†	63891.7	519.49 ug/L		1.717	519.49 ppb	1.717	0.33%
QC value within limits for Ba 233.527 Recovery = 103.90%							
Be 313.107†	1419158.8	518.99 ug/L		1.558	518.99 ppb	1.558	0.30%
QC value within limits for Be 313.107 Recovery = 103.80%							
Ca 317.933Radial†	3033.1	5049.0 ug/L		101.89	5049.0 ppb	101.89	2.02%

QC value within limits for Ca 317.933 Radial Recovery = 100.98%						
Cd 226.502†	46159.0	518.24 ug/L	1.626	518.24 ppb	1.626	0.31%
QC value within limits for Cd 226.502 Recovery = 103.65%						
Co 228.616†	24614.6	520.30 ug/L	1.555	520.30 ppb	1.555	0.30%
QC value within limits for Co 228.616 Recovery = 104.06%						
Cr 267.716†	48855.2	517.56 ug/L	1.917	517.56 ppb	1.917	0.37%
QC value within limits for Cr 267.716 Recovery = 103.51%						
Cu 324.752†	183830.3	518.99 ug/L	3.537	518.99 ppb	3.537	0.68%
QC value within limits for Cu 324.752 Recovery = 103.80%						
Fe 238.204 Radial†	542.6	5218.2 ug/L	106.87	5218.2 ppb	106.87	2.05%
QC value within limits for Fe 238.204 Radial Recovery = 104.36%						
K 766.490 Radial†	28050.3	5058.8 ug/L	68.00	5058.8 ppb	68.00	1.34%
QC value within limits for K 766.490 Radial Recovery = 101.18%						
Mg 279.077 IEC†	137.0	5231.0 ug/L	170.94	5231.0 ppb	170.94	3.27%
QC value within limits for Mg 279.077 IEC Recovery = 104.62%						
Mn 257.610†	464250.2	522.05 ug/L	1.533	522.05 ppb	1.533	0.29%
QC value within limits for Mn 257.610 Recovery = 104.41%						
Mo 202.031†	7471.5	513.55 ug/L	2.329	513.55 ppb	2.329	0.45%
QC value within limits for Mo 202.031 Recovery = 102.71%						
Na 589.592 Radial†	33241.1	10123 ug/L	131.7	10123 ppb	131.7	1.30%
QC value within limits for Na 589.592 Radial Recovery = 101.23%						
Ni 231.604†	21443.0	518.71 ug/L	0.777	518.71 ppb	0.777	0.15%
QC value within limits for Ni 231.604 Recovery = 103.74%						
P 214.914†	4641.7	2464.3 ug/L	8.74	2464.3 ppb	8.74	0.35%
QC value within limits for P 214.914 Recovery = 98.57%						
Pb 220.353†	4270.3	515.03 ug/L	1.431	515.03 ppb	1.431	0.28%
QC value within limits for Pb 220.353 Recovery = 103.01%						
S 181.975 Axial†	777.1	1042.7 ug/L	1.45	1042.7 ppb	1.45	0.14%
QC value within limits for S 181.975 Axial Recovery = 104.27%						
Sb 206.836†	1590.5	529.32 ug/L	0.858	529.32 ppb	0.858	0.16%
QC value within limits for Sb 206.836 Recovery = 105.86%						
Se 196.026†	940.2	534.19 ug/L	4.004	534.19 ppb	4.004	0.75%
QC value within limits for Se 196.026 Recovery = 106.84%						
Si 251.611†	85053.1	2591.8 ug/L	11.18	2591.8 ppb	11.18	0.43%
QC value within limits for Si 251.611 Recovery = 103.67%						
Sn 189.927†	2803.8	509.44 ug/L	2.495	509.44 ppb	2.495	0.49%
QC value within limits for Sn 189.927 Recovery = 101.89%						
Sr 421.552†	81782.8	503.69 ug/L	6.737	503.69 ppb	6.737	1.34%
QC value within limits for Sr 421.552 Recovery = 100.74%						
Ti 334.940†	343566.0	520.94 ug/L	1.216	520.94 ppb	1.216	0.23%
QC value within limits for Ti 334.940 Recovery = 104.19%						
Tl 190.801†	1592.1	518.78 ug/L	1.964	518.78 ppb	1.964	0.38%
QC value within limits for Tl 190.801 Recovery = 103.76%						
U 409.014†	20671.1	525.96 ug/L	4.835	525.96 ppb	4.835	0.92%
QC value within limits for U 409.014 Recovery = 105.19%						
V 292.402†	79472.2	523.97 ug/L	1.777	523.97 ppb	1.777	0.34%
QC value within limits for V 292.402 Recovery = 104.79%						
Zn 213.857†	56683.2	512.91 ug/L	1.780	512.91 ppb	1.780	0.35%
QC value within limits for Zn 213.857 Recovery = 102.58%						
SiO2†	84426.2	5492.3 ug/L	26.20	5492.3 ppb	26.20	0.48%
QC value within limits for SiO2 Recovery = 102.71%						
All analyte(s) passed QC.						

Sequence No.: 77

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 1/30/2010 02:22:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	5497.3	5497.3	104 %		02:24:10
1	Y RADIAL	5770.5	5770.5	104.5 %		02:24:10
1	Al 396.153Radial†	-107.8	3.5	2.8023 ug/L	2.8023 ppb	02:24:30
1	Ca 317.933Radial†	25.5	3.7	6.2086 ug/L	6.2086 ppb	02:24:30
1	Fe 238.204 Radial†	8.4	-2.0	-19.500 ug/L	-19.500 ppb	02:24:30
1	K 766.490 Radial†	2635.8	-132.2	-23.864 ug/L	-23.864 ppb	02:24:10
1	Mg 279.077 IEC†	0.8	-0.6	-22.963 ug/L	-22.963 ppb	02:24:30
1	Na 589.592 Radial†	-637.0	-23.5	-7.1691 ug/L	-7.1691 ppb	02:24:10
1	Sr 421.552†	71.1	1.5	0.0091 ug/L	0.0091 ppb	02:24:10
1	Sc 361.383	975369.2	975369.2	98.325 %		02:25:27
1	Y 371.029	845929.0	845929.0	98.368 %		02:25:27
1	Ag 328.068†	383.4	15.4	0.0590 ug/L	0.0590 ppb	02:25:32
1	As 188.979†	-28.4	7.6	3.1204 ug/L	3.1204 ppb	02:25:52
1	B 249.677†	-252.5	84.3	1.9402 ug/L	1.9402 ppb	02:25:52
1	Ba 233.527†	-10.5	5.7	0.0466 ug/L	0.0466 ppb	02:25:52
1	Be 313.107†	-4785.5	-64.5	-0.0230 ug/L	-0.0230 ppb	02:25:32
1	Cd 226.502†	-165.2	15.5	0.1764 ug/L	0.1764 ppb	02:25:52
1	Co 228.616†	-79.0	-11.3	-0.2387 ug/L	-0.2387 ppb	02:25:52
1	Cr 267.716†	75.4	7.4	0.0776 ug/L	0.0776 ppb	02:25:52
1	Cu 324.752†	9052.8	236.9	0.6670 ug/L	0.6670 ppb	02:25:32
1	Mn 257.610†	626.6	67.1	0.0745 ug/L	0.0745 ppb	02:25:52
1	Mo 202.031†	16.7	6.4	0.4355 ug/L	0.4355 ppb	02:25:52
1	Ni 231.604†	81.3	2.3	0.0547 ug/L	0.0547 ppb	02:25:52
1	P 214.914†	270.9	26.8	14.725 ug/L	14.725 ppb	02:25:52
1	Pb 220.353†	-39.4	5.0	0.6061 ug/L	0.6061 ppb	02:25:52
1	S 181.975 Axial†	45.9	3.9	5.3021 ug/L	5.3021 ppb	02:25:52
1	Sb 206.836†	49.7	15.7	5.0691 ug/L	5.0691 ppb	02:25:52
1	Se 196.026†	-12.1	11.4	6.1969 ug/L	6.1969 ppb	02:25:52
1	Si 251.611†	459.7	63.9	1.9456 ug/L	1.9456 ppb	02:25:52
1	Sn 189.927†	4.7	3.7	0.6730 ug/L	0.6730 ppb	02:25:52
1	Ti 334.940†	-841.1	159.2	0.2436 ug/L	0.2436 ppb	02:25:32
1	Tl 190.801†	-42.0	2.3	0.7466 ug/L	0.7466 ppb	02:25:52
1	U 409.014†	-2696.0	51.9	1.3263 ug/L	1.3263 ppb	02:25:32
1	V 292.402†	-1403.5	38.9	0.2637 ug/L	0.2637 ppb	02:25:32
1	Zn 213.857†	991.6	87.7	0.8013 ug/L	0.8013 ppb	02:25:52
1	SiO2†	476.2	86.6	5.6354 ug/L	5.6354 ppb	02:27:13
2	Sc Radial	5388.6	5388.6	102 %		02:24:35
2	Y RADIAL	5671.9	5671.9	102.7 %		02:24:35
2	Al 396.153Radial†	-117.3	-7.9	-6.4109 ug/L	-6.4109 ppb	02:24:55
2	Ca 317.933Radial†	22.8	1.6	2.6220 ug/L	2.6220 ppb	02:24:55
2	Fe 238.204 Radial†	8.5	-1.8	-16.974 ug/L	-16.974 ppb	02:24:55
2	K 766.490 Radial†	2612.6	-103.9	-18.750 ug/L	-18.750 ppb	02:24:35
2	Mg 279.077 IEC†	-0.4	-1.8	-67.709 ug/L	-67.709 ppb	02:24:55
2	Na 589.592 Radial†	-644.6	-43.4	-13.209 ug/L	-13.209 ppb	02:24:35
2	Sr 421.552†	45.1	-22.6	-0.1394 ug/L	-0.1394 ppb	02:24:35
2	Sc 361.383	986593.7	986593.7	99.456 %		02:25:57
2	Y 371.029	855551.5	855551.5	99.487 %		02:25:57
2	Ag 328.068†	395.4	23.0	0.0981 ug/L	0.0981 ppb	02:26:02
2	As 188.979†	-34.1	2.2	0.9115 ug/L	0.9115 ppb	02:26:22
2	B 249.677†	-262.7	77.0	1.7710 ug/L	1.7710 ppb	02:26:22
2	Ba 233.527†	-11.2	5.1	0.0423 ug/L	0.0423 ppb	02:26:22
2	Be 313.107†	-4754.6	21.8	0.0081 ug/L	0.0081 ppb	02:26:02
2	Cd 226.502†	-162.7	20.0	0.2257 ug/L	0.2257 ppb	02:26:22
2	Co 228.616†	-85.9	-17.3	-0.3651 ug/L	-0.3651 ppb	02:26:22
2	Cr 267.716†	79.7	10.9	0.1173 ug/L	0.1173 ppb	02:26:22
2	Cu 324.752†	8851.6	-70.1	-0.1964 ug/L	-0.1964 ppb	02:26:02
2	Mn 257.610†	629.1	62.4	0.0713 ug/L	0.0713 ppb	02:26:22
2	Mo 202.031†	13.1	2.6	0.1750 ug/L	0.1750 ppb	02:26:22
2	Ni 231.604†	94.9	15.0	0.3636 ug/L	0.3636 ppb	02:26:22

2	P 214.914†	250.0	2.7	1.5814 ug/L	1.5814 ppb	02:26:22
2	Pb 220.353†	-32.4	12.6	1.5139 ug/L	1.5139 ppb	02:26:22
2	S 181.975 Axial†	42.5	-0.1	-0.0695 ug/L	-0.0695 ppb	02:26:22
2	Sb 206.836†	44.7	10.1	3.2826 ug/L	3.2826 ppb	02:26:22
2	Se 196.026†	-18.9	4.7	2.5315 ug/L	2.5315 ppb	02:26:22
2	Si 251.611†	461.0	59.9	1.8266 ug/L	1.8266 ppb	02:26:22
2	Sn 189.927†	15.3	14.3	2.5957 ug/L	2.5957 ppb	02:26:22
2	Ti 334.940†	-962.6	46.8	0.0787 ug/L	0.0787 ppb	02:26:02
2	Tl 190.801†	-40.4	4.5	1.4429 ug/L	1.4429 ppb	02:26:22
2	U 409.014†	-2949.2	-171.5	-4.3764 ug/L	-4.3764 ppb	02:26:02
2	V 292.402†	-1371.6	87.2	0.5623 ug/L	0.5623 ppb	02:26:02
2	Zn 213.857†	995.7	80.3	0.7327 ug/L	0.7327 ppb	02:26:22
2	SiO2†	486.9	91.9	5.9900 ug/L	5.9900 ppb	02:27:33
3	Sc Radial	5494.2	5494.2	104 %		02:25:00
3	Y RADIAL	5788.9	5788.9	104.8 %		02:25:00
3	Al 396.153Radial†	-102.5	8.5	6.8693 ug/L	6.8693 ppb	02:25:20
3	Ca 317.933Radial†	18.7	-2.8	-4.6399 ug/L	-4.6399 ppb	02:25:20
3	Fe 238.204 Radial†	8.3	-2.1	-20.436 ug/L	-20.436 ppb	02:25:20
3	K 766.490 Radial†	2627.9	-138.3	-24.965 ug/L	-24.965 ppb	02:25:00
3	Mg 279.077 IEC†	-0.9	-2.2	-84.023 ug/L	-84.023 ppb	02:25:20
3	Na 589.592 Radial†	-635.8	-22.7	-6.9241 ug/L	-6.9241 ppb	02:25:00
3	Sr 421.552†	65.8	-3.6	-0.0220 ug/L	-0.0220 ppb	02:25:00
3	Sc 361.383	980404.7	980404.7	98.833 %		02:26:27
3	Y 371.029	849778.2	849778.2	98.816 %		02:26:27
3	Ag 328.068†	449.0	79.7	0.3335 ug/L	0.3335 ppb	02:26:32
3	As 188.979†	-33.8	2.3	0.9595 ug/L	0.9595 ppb	02:26:52
3	B 249.677†	-258.9	79.1	1.8208 ug/L	1.8208 ppb	02:26:52
3	Ba 233.527†	-29.0	-12.9	-0.1053 ug/L	-0.1053 ppb	02:26:52
3	Be 313.107†	-4754.0	-7.7	-0.0027 ug/L	-0.0027 ppb	02:26:32
3	Cd 226.502†	-171.9	9.7	0.1104 ug/L	0.1104 ppb	02:26:52
3	Co 228.616†	-83.4	-15.3	-0.3240 ug/L	-0.3240 ppb	02:26:52
3	Cr 267.716†	65.5	-3.0	-0.0312 ug/L	-0.0312 ppb	02:26:52
3	Cu 324.752†	8909.2	44.3	0.1248 ug/L	0.1248 ppb	02:26:32
3	Mn 257.610†	639.6	77.1	0.0880 ug/L	0.0880 ppb	02:26:52
3	Mo 202.031†	10.6	0.1	0.0060 ug/L	0.0060 ppb	02:26:52
3	Ni 231.604†	76.2	-3.4	-0.0812 ug/L	-0.0812 ppb	02:26:52
3	P 214.914†	259.4	13.7	7.5947 ug/L	7.5947 ppb	02:26:52
3	Pb 220.353†	-43.3	1.3	0.1581 ug/L	0.1581 ppb	02:26:52
3	S 181.975 Axial†	45.0	2.8	3.7170 ug/L	3.7170 ppb	02:26:52
3	Sb 206.836†	38.9	4.5	1.4386 ug/L	1.4386 ppb	02:26:52
3	Se 196.026†	-7.1	16.5	8.9861 ug/L	8.9861 ppb	02:26:52
3	Si 251.611†	447.8	49.5	1.5110 ug/L	1.5110 ppb	02:26:52
3	Sn 189.927†	3.7	2.6	0.4796 ug/L	0.4796 ppb	02:26:52
3	Ti 334.940†	-973.7	29.5	0.0515 ug/L	0.0515 ppb	02:26:32
3	Tl 190.801†	-50.3	-5.8	-1.8824 ug/L	-1.8824 ppb	02:26:52
3	U 409.014†	-2809.2	-48.5	-1.2367 ug/L	-1.2367 ppb	02:26:32
3	V 292.402†	-1424.2	25.2	0.1631 ug/L	0.1631 ppb	02:26:32
3	Zn 213.857†	987.6	78.5	0.7189 ug/L	0.7189 ppb	02:26:52
3	SiO2†	476.4	84.4	5.5022 ug/L	5.5022 ppb	02:27:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	980789.2	98.871 %	0.5668			0.57%
Sc Radial	5460.1	104 %	1.2			1.13%
Y 371.029	850419.6	98.891 %	0.5632			0.57%
Y RADIAL	5743.8	104.0 %	1.14			1.10%
Ag 328.068†	39.4	0.1635 ug/L	0.14852	0.1635 ppb	0.14852	90.82%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.4	1.0869 ug/L	6.80426	1.0869 ppb	6.80426	626.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.1	1.6638 ug/L	1.26168	1.6638 ppb	1.26168	75.83%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	80.1	1.8440 ug/L	0.08699	1.8440 ppb	0.08699	4.72%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.7	-0.0054 ug/L	0.08648	-0.0054 ppb	0.08648	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.8	-0.0059 ug/L	0.01581	-0.0059 ppb	0.01581	269.93%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.8	1.3969 ug/L	5.52703	1.3969 ppb	5.52703	395.66%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	15.1	0.1708 ug/L	0.05787	0.1708 ppb	0.05787	33.88%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-14.7	-0.3093 ug/L	0.06450	-0.3093 ppb	0.06450	20.86%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.1	0.0546 ug/L	0.07691	0.0546 ppb	0.07691	140.98%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	70.4	0.1985 ug/L	0.43639	0.1985 ppb	0.43639	219.89%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.0	-18.970 ug/L	1.7909	-18.970 ppb	1.7909	9.44%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-124.8	-22.527 ug/L	3.3163	-22.527 ppb	3.3163	14.72%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.5	-58.232 ug/L	31.6145	-58.232 ppb	31.6145	54.29%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	68.9	0.0779 ug/L	0.00889	0.0779 ppb	0.00889	11.41%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.0	0.2055 ug/L	0.21635	0.2055 ppb	0.21635	105.27%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-29.9	-9.1008 ug/L	3.56015	-9.1008 ppb	3.56015	39.12%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	4.6	0.1124 ug/L	0.22791	0.1124 ppb	0.22791	202.83%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	14.4	7.9671 ug/L	6.57988	7.9671 ppb	6.57988	82.59%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	6.3	0.7594 ug/L	0.69075	0.7594 ppb	0.69075	90.97%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.2	2.9832 ug/L	2.75993	2.9832 ppb	2.75993	92.52%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	10.1	3.2634 ug/L	1.81534	3.2634 ppb	1.81534	55.63%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	10.9	5.9048 ug/L	3.23719	5.9048 ppb	3.23719	54.82%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	57.7	1.7611 ug/L	0.22461	1.7611 ppb	0.22461	12.75%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.9	1.2494 ug/L	1.16994	1.2494 ppb	1.16994	93.64%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-8.2	-0.0508 ug/L	0.07833	-0.0508 ppb	0.07833	154.24%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	78.5	0.1246 ug/L	0.10395	0.1246 ppb	0.10395	83.42%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.3	0.1024 ug/L	1.75379	0.1024 ppb	1.75379	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-56.1	-1.4289 ug/L	2.85621	-1.4289 ppb	2.85621	199.88%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	50.4	0.3297 ug/L	0.20761	0.3297 ppb	0.20761	62.97%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	82.2	0.7510 ug/L	0.04413	0.7510 ppb	0.04413	5.88%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	87.6	5.7092 ug/L	0.25212	5.7092 ppb	0.25212	4.42%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, February 09, 2010 11:04:58

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.313

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	1553.9	1553.885	29.075	1.9
Mg	24.0	17663.7	17663.716	284.270	1.6
Co	58.9	66421.1	66421.076	907.488	1.4
Rh	102.9	138078.3	138078.331	1252.315	0.9
In	114.9	180102.9	180102.873	1794.208	1.0
Pb	208.0	66476.9	66476.926	694.901	1.0
[> Ba	137.9	144033.9	144033.876	1349.029	0.9
[Ba++	69.0	1901.0	0.013	0.000	1.8
[> Ce	139.9	169135.3	169135.282	2242.228	1.3
[CeO	155.9	4914.7	0.029	0.000	1.3
Bkgd	220.0	1.6	1.600	0.742	46.4

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
4.50	Lens Voltage
1000.00	ICP RF Power
-2000.00	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	4.3	1371.4
Co	59	17	5.0	56445.6
In	115	17	5.5	148438.2

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	0.697
Be	9.0	9.0	2029	2045	0.715
Mg	24.0	24.0	5664	2065	0.656
Mg	25.0	24.9	5927	2080	0.719
Mg	26.0	26.0	6142	2085	0.632
Co	58.9	58.9	14170	2140	0.663
Rh	102.9	102.9	24866	2230	0.674
In	114.9	114.9	27761	2255	0.675
Ce	139.9	139.9	33840	2310	0.646
Pb	206.0	206.0	49933	2500	0.588
Pb	207.0	207.0	50101	2375	0.613
Pb	208.0	208.0	50436	2570	0.575
U	238.1	238.0	57683	2510	0.636

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, February 09, 2010 11:25:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\Blank.001

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		220158	
[U 238		ug/L		60	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Simple Linear	
U	238Simple Linear	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, February 09, 2010 11:28:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\Standard 1.002

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		226198	226197.592
[	U 238	10.000	ug/L	1.049	171620	0.759

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, February 09, 2010 11:30:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\Standard 2.003

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		222186	222185.853
[	U 238	99.953	ug/L	1.513	1608139	7.238

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, February 09, 2010 11:32:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 1.004

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		222392	222391.682
[	U 238	52.453	ug/L	0.232	844815	3.799

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			101.0		
[	U 238	104.906				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, February 09, 2010 11:34:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 2.005

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		224862	224862.472
[U 238	0.019	ug/L	3.765	372	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		102.1			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, February 09, 2010 11:36:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 3.006

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		227237	227236.962
[	U 238	0.245	ug/L	0.483	4087	0.018

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			103.2		
[U 238	122.308				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, February 09, 2010 11:38:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 4.007

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		207313	207313.154
[U 238	0.004	ug/L	20.310	114	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		94.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, February 09, 2010 11:41:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 5.008

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		207619	207619.307
[	U 238	20.616	ug/L	0.300	310031	1.493

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			94.3		
[U 238	103.081				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 11:43:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 6.009

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		223235	223234.888
[U	238	51.828	ug/L	0.893	837909	3.753

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			101.4		
[U	238	103.656				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 11:45:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 7.010

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu 175		ug/L		219987	219987.454
[	U 238	0.015	ug/L	12.093	298	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Lu 175			99.9		
[	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202035553

Sample Date/Time: Tuesday, February 09, 2010 11:47:45

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\1202035553.011

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		229008	229007.747
[	U 238	0.006	ug/L	7.165	166	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		104.0			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202035554

Sample Date/Time: Tuesday, February 09, 2010 11:49:56

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950023|40|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\1202035554.012

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		228148	228148.459
[	U	238	0.516 ug/L	1.025	8581	0.037

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		103.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628001

Sample Date/Time: Tuesday, February 09, 2010 11:52:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628001.013

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		232830	232830.404
[U 238	4.657	ug/L	0.401	78576	0.337

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		105.8			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202015847

Sample Date/Time: Tuesday, February 09, 2010 11:54:20

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\1202015847.014

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		232491	232491.127
[	U	238	ug/L	0.544	79689	0.342

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		105.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202015849

Sample Date/Time: Tuesday, February 09, 2010 11:56:32

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth -

Dataset File: C:\elandata\Dataset\100209\1202015849.015

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		231471	231470.551
[	U 238	30.897	ug/L	1.078	518000	2.238

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			105.1		
[	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202015850

Sample Date/Time: Tuesday, February 09, 2010 11:58:46

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\1202015850.016

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		232984	232983.794
[U 238	31.290	ug/L	0.927	527953	2.266

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			105.8		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202015848

Sample Date/Time: Tuesday, February 09, 2010 12:01:00

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950023|10|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\1202015848.017

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		231779	231778.573
[	U 238	0.963	ug/L	1.442	16227	0.070

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			105.3		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628002

Sample Date/Time: Tuesday, February 09, 2010 12:03:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628002.018

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu 175		ug/L		234281	234280.800
[	U 238	11.637	ug/L	0.720	197497	0.843

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Lu 175			106.4		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628003

Sample Date/Time: Tuesday, February 09, 2010 12:05:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023[2]skj

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628003.019

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		230496	230496.426
[U	238	6.256	ug/L	0.983	104487	0.453

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			104.7		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 12:07:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 6.020

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		226695	226695.451
[	U	238	51.919 ug/L	0.629	852401	3.760

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		103.0		
[U	238	103.839			

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 12:09:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 7.021

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		222219	222219.462
[	U 238	0.015	ug/L	2.935	303	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			100.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628004

Sample Date/Time: Tuesday, February 09, 2010 12:12:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628004.022

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		236146	236146.499
[U 238	17.941	ug/L	0.720	306870	1.299

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			107.3		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628005

Sample Date/Time: Tuesday, February 09, 2010 12:14:16

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628005.023

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu 175		ug/L		238117	238117.477
[	U 238	3.110	ug/L	0.848	53686	0.225

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Lu 175		108.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628006

Sample Date/Time: Tuesday, February 09, 2010 12:16:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628006.024

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		227255	227255.251
[U	238	5.523	ug/L	1.347	90947	0.400

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175		103.2			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628007

Sample Date/Time: Tuesday, February 09, 2010 12:18:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628007.025

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		234110	234110.214
[U 238	2.615	ug/L	1.174	44403	0.189

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			106.3		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628008

Sample Date/Time: Tuesday, February 09, 2010 12:20:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628008.026

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		233438	233437.661
[U 238	3.408	ug/L	1.104	57674	0.247

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		106.0			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628009

Sample Date/Time: Tuesday, February 09, 2010 12:23:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628009.027

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		235983	235982.558
[U 238	4.654	ug/L	0.619	79598	0.337

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		107.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628010

Sample Date/Time: Tuesday, February 09, 2010 12:25:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628010.028

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		225798	225797.744
[	U	238	27.069 ug/L	0.803	442676	1.960

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		102.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628011

Sample Date/Time: Tuesday, February 09, 2010 12:27:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628011.029

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		233180	233180.375
[U 238	3.147	ug/L	0.848	53201	0.228

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		105.9			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 244628011

Report Date/Time: Tuesday, February 09, 2010 12:27:49

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 12:29:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 6.030

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		224748	224747.807
[	U 238	51.660	ug/L	0.797	840830	3.741

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			102.1		
[U 238	103.319				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 12:32:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 7.031

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		216386	216386.023
[U	238	0.016	ug/L	3.576	308	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			98.3		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628012

Sample Date/Time: Tuesday, February 09, 2010 12:34:16

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023[2]skj

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628012.032

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		232681	232680.606
[U	238	9.259	ug/L	1.015	156076	0.671

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175		105.7			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628013

Sample Date/Time: Tuesday, February 09, 2010 12:36:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628013.033

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		230526	230526.073
[U 238	23.086	ug/L	1.216	385456	1.672

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		104.7			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628014

Sample Date/Time: Tuesday, February 09, 2010 12:38:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628014.034

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		237496	237495.721
[	U	238	ug/L	1.213	55601	0.234

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		107.9		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628015

Sample Date/Time: Tuesday, February 09, 2010 12:41:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|skj

Method File: c:\elandata\Method\lu only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628015.035

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu 175		ug/L		229627	229627.150
[	U 238	27.020	ug/L	0.497	449365	1.957

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Lu 175		104.3			
[	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 244628016

Sample Date/Time: Tuesday, February 09, 2010 12:43:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950023|2|sk|

Method File: c:\elandata\Method\lu only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\244628016.036

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		238628	238628.450
[	U	238	ug/L	0.929	48480	0.203

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		108.4		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 12:45:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 6.037

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		220509	220509.224
[U 238	51.317	ug/L	1.761	819496	3.716

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			100.2		
[U 238	102.633				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 12:47:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only no lrs.mth

Dataset File: C:\elandata\Dataset\100209\QC Std 7.038

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		215067	215066.955
[	U 238	0.015	ug/L	3.314	293	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			97.7		
[	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, January 30, 2010 04:13:40

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100129\Sample.053

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	1792.5	1792.513	72.751	4.1
Mg	24.0	18863.7	18863.655	577.000	3.1
Co	58.9	47283.9	47283.932	578.230	1.2
Rh	102.9	106017.1	106017.140	497.163	0.5
In	114.9	128762.1	128762.112	971.977	0.8
Pb	208.0	74474.8	74474.849	967.189	1.3
[> Ba	137.9	108998.2	108998.215	303.237	0.3
[Ba++	69.0	2503.9	0.023	0.000	2.0
[> Ce	139.9	143175.9	143175.930	1040.052	0.7
[CeO	155.9	4079.0	0.028	0.001	2.4
Bkgd	220.0	11.1	11.100	1.851	16.7

Current Optimization File Data

Current Value	Description
0.82	Nebulizer Gas Flow
13.75	Lens Voltage
1450.00	ICP RF Power
-1781.25	Analog Stage Voltage
900.00	Pulse Stage Voltage
25.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	11.3	4338.3
Co	59	21	13.0	37585.0
In	115	21	14.3	89863.4

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	582	2080	0.669
Be	9.0	9.0	2025	2080	0.669
Mg	24.0	24.0	5682	2120	0.628
Mg	25.0	25.1	5924	2080	0.682
Mg	26.0	25.9	6150	2120	0.687
Co	58.9	58.9	14166	2170	0.640
Rh	102.9	102.9	24851	2230	0.715
In	114.9	114.9	27776	2260	0.700
Ce	139.9	139.9	33841	2280	0.767
Pb	206.0	206.0	49948	2430	0.766
Pb	207.0	207.0	50135	2385	0.728
Pb	208.0	208.0	50451	2430	0.744
U	238.1	238.0	57719	2470	0.737

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, January 30, 2010 16:25:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\Blank.224

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		82	
Be	9		ug/L		16	
B	11		ug/L		479	
Na	23		ug/L		13006	
Mg	24		ug/L		4667	
Al	27		ug/L		6001	
P	31		ug/L		7560	
K	39		ug/L		466152	
Ca	43		ug/L		768	
> Sc	45		ug/L		744153	
V	51		ug/L		14637	
Cr	52		ug/L		8172	
Cr	53		ug/L		137111	
Mn	55		ug/L		1310	
Fe	57		ug/L		4998	
Co	59		ug/L		152	
Ni	60		ug/L		89	
Cu	63		ug/L		122	
Cu	65		ug/L		113	
Zn	66		ug/L		324	
Zn	67		ug/L		13991	
Zn	68		ug/L		995	
> Ge	74		ug/L		205516	
As	75		ug/L		152	
Se	77		ug/L		6944	
Se	82		ug/L		-9	
Kr	83		ug/L		69	
Sr	88		ug/L		182	
Y	89		ug/L		48	
Ag	107		ug/L		65	
Cd	111		ug/L		21	
Cd	114		ug/L		34	
> In	115		ug/L		124268	
Sn	120		ug/L		360	
Sb	121		ug/L		479	
Sb	123		ug/L		355	
Ba	135		ug/L		30	
Ba	137		ug/L		38	
Ho	165		ug/L		17	
> Lu	175		ug/L		163266	
Tl	205		ug/L		729	
Pb	208		ug/L		362	
Bi	209		ug/L		27	
U	238		ug/L		149	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	0.9998
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	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	0.9998
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dilution	Duplicate Rel. % Difference
[	Li		7				
|	Be		9				
|	B		11				
|	Na		23				
|	Mg		24				
|	Al		27				
|	P		31				
|	K		39				
|	Ca		43				
>	Sc		45				
|	V		51				
|	Cr		52				
|	Cr		53				
|	Mn		55				
|	Fe		57				
|	Co		59				
|	Ni		60				
|	Cu		63				
|	Cu		65				
|	Zn		66				
|	Zn		67				
|	Zn		68				
>	Ge		74				
|	As		75				
|	Se		77				
|	Se		82				
|	Kr		83				
|	Sr		88				
|	Y		89				
|	Ag		107				
|	Cd		111				
|	Cd		114				
>	In		115				
|	Sn		120				
|	Sb		121				
|	Sb		123				
|	Ba		135				
|	Ba		137				
|	Ho		165				
>	Lu		175				
|	Tl		205				
|	Pb		208				
|	Bi		209				
|	U		238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, January 30, 2010 16:31:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\Standard 1.225

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	1.624	5798	0.008
Be	9	10.000	ug/L	2.748	2234	0.003
B	11	20.000	ug/L	3.949	4549	0.006
Na	23	1000.000	ug/L	0.962	1957883	2.813
Mg	24	1000.000	ug/L	1.331	1515702	2.185
Al	27	1000.000	ug/L	3.613	2123109	3.061
P	31	1000.000	ug/L	1.350	168900	0.234
K	39	1000.000	ug/L	5.509	2808834	3.434
Ca	43	1000.000	ug/L	1.464	7657	0.010
> Sc	45		ug/L		691686	691685.761
V	51	10.000	ug/L	20.689	50641	0.054
Cr	52	10.000	ug/L	1.172	38014	0.044
Cr	53		ug/L		110448	-0.025
Mn	55	10.000	ug/L	1.365	49500	0.070
Fe	57	1000.000	ug/L	1.577	101904	0.141
Co	59	10.000	ug/L	0.964	37498	0.054
Ni	60	10.000	ug/L	0.024	7996	0.011
Cu	63		ug/L		18334	0.026
Cu	65	10.000	ug/L	0.912	8960	0.013
Zn	66	10.000	ug/L	2.480	7222	0.035
Zn	67		ug/L		10486	-0.014
Zn	68		ug/L		5965	0.026
> Ge	74		ug/L		195305	195305.053
As	75	10.000	ug/L	5.463	6735	0.034
Se	77		ug/L		5443	-0.006
Se	82	10.000	ug/L	4.099	602	0.003
Kr	83		ug/L		81	0.000
Sr	88	10.000	ug/L	0.991	71388	0.614
Y	89		ug/L		55	0.000
Ag	107	10.000	ug/L	1.479	32150	0.277
Cd	111	10.000	ug/L	1.590	7828	0.067
Cd	114		ug/L		18106	0.156
> In	115		ug/L		116013	116013.297
Sn	120	10.000	ug/L	2.189	30995	0.264
Sb	121	10.000	ug/L	7.193	25524	0.216
Sb	123		ug/L		19751	0.167
Ba	135		ug/L		7199	0.047
Ba	137	10.000	ug/L	1.322	12475	0.081
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		153773	153773.065
Tl	205	10.000	ug/L	0.108	58044	0.373
Pb	208	10.000	ug/L	0.529	98965	0.641
Bi	209		ug/L		49	0.000
U	238	10.000	ug/L	1.676	104089	0.676

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	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>|	Sc	45				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>|	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>|	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>|	Lu	175				
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, January 30, 2010 16:37:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\Standard 2.226

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.024	ug/L	1.590	57568	0.085
Be	9	100.028	ug/L	2.179	22397	0.033
B	11	200.071	ug/L	0.262	42147	0.062
Na	23	10004.079	ug/L	1.227	19901451	29.339
Mg	24	9991.648	ug/L	0.592	13664422	20.149
Al	27	9998.041	ug/L	2.200	20358177	30.021
P	31	9997.079	ug/L	1.046	1548041	2.273
K	39	10007.269	ug/L	4.689	25545602	37.064
Ca	43	10001.225	ug/L	0.863	69613	0.102
> Sc	45		ug/L		677964	677964.172
V	51	100.027	ug/L	0.558	386544	0.550
Cr	52	100.074	ug/L	0.283	329618	0.475
Cr	53		ug/L		134936	0.015
Mn	55	99.990	ug/L	0.549	469684	0.691
Fe	57	9996.838	ug/L	0.293	928291	1.363
Co	59	99.979	ug/L	0.716	358587	0.529
Ni	60	99.986	ug/L	0.894	76547	0.113
Cu	63		ug/L		177569	0.262
Cu	65	99.991	ug/L	0.414	86086	0.127
Zn	66	99.768	ug/L	0.802	55457	0.287
Zn	67		ug/L		18340	0.027
Zn	68		ug/L		41438	0.211
> Ge	74		ug/L		192400	192399.922
As	75	100.040	ug/L	0.277	67789	0.352
Se	77		ug/L		9134	0.014
Se	82	99.998	ug/L	1.774	5994	0.031
Kr	83		ug/L		79	0.000
Sr	88	99.994	ug/L	1.087	688091	6.100
Y	89		ug/L		100	0.000
Ag	107	99.979	ug/L	1.697	305578	2.709
Cd	111	100.005	ug/L	1.508	76338	0.677
Cd	114		ug/L		177401	1.573
> In	115		ug/L		112791	112790.717
Sn	120	100.017	ug/L	1.349	303702	2.690
Sb	121	100.083	ug/L	5.839	266386	2.360
Sb	123		ug/L		207411	1.837
Ba	135		ug/L		71031	0.472
Ba	137	100.021	ug/L	1.383	124518	0.827
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		150551	150550.670
Tl	205	99.982	ug/L	1.037	552020	3.662
Pb	208	99.979	ug/L	0.949	946086	6.282
Bi	209		ug/L		103	0.001
U	238	99.961	ug/L	0.511	979450	6.505

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, January 30, 2010 16:42:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimözr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 1.227

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.201	ug/L	3.495	29672	0.043
Be	9	51.179	ug/L	2.623	11532	0.017
B	11	103.976	ug/L	4.309	22240	0.032
Na	23	5153.274	ug/L	6.145	10316444	15.113
Mg	24	5090.853	ug/L	4.275	7004012	10.266
Al	27	5077.970	ug/L	3.494	10403482	15.247
P	31	5176.586	ug/L	1.579	809617	1.177
K	39	5092.787	ug/L	4.178	13290218	18.862
Ca	43	5057.579	ug/L	1.733	35755	0.051
> Sc	45		ug/L		681959	681958.999
V	51	50.887	ug/L	4.163	204381	0.280
Cr	52	51.206	ug/L	1.351	173300	0.243
Cr	53		ug/L		117545	-0.012
Mn	55	51.881	ug/L	1.254	245702	0.359
Fe	57	5152.462	ug/L	1.260	483473	0.702
Co	59	50.204	ug/L	0.736	181198	0.266
Ni	60	51.933	ug/L	0.128	40034	0.059
Cu	63		ug/L		90774	0.133
Cu	65	51.148	ug/L	1.213	44345	0.065
Zn	66	52.470	ug/L	1.054	29616	0.151
Zn	67		ug/L		13802	0.003
Zn	68		ug/L		22683	0.112
> Ge	74		ug/L		194405	194404.772
As	75	47.322	ug/L	1.581	32477	0.166
Se	77		ug/L		6856	0.001
Se	82	49.293	ug/L	1.228	2981	0.015
Kr	83		ug/L		79	0.000
Sr	88	51.531	ug/L	0.709	359742	3.144
Y	89		ug/L		76	0.000
Ag	107	51.180	ug/L	0.922	158699	1.387
Cd	111	49.582	ug/L	1.267	38399	0.336
Cd	114		ug/L		89669	0.784
> In	115		ug/L		114387	114386.653
Sn	120	49.931	ug/L	0.593	153939	1.343
Sb	121	51.188	ug/L	2.383	138486	1.207
Sb	123		ug/L		106588	0.929
Ba	135		ug/L		35954	0.237
Ba	137	50.950	ug/L	0.368	63861	0.421
Ho	165		ug/L		30	0.000
> Lu	175		ug/L		151536	151536.379
Tl	205	48.355	ug/L	2.217	269046	1.771
Pb	208	51.184	ug/L	0.451	487702	3.216
Bi	209		ug/L		127	0.001
U	238	53.919	ug/L	1.577	531780	3.509

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7	102.402				
Be	9	102.357				
B	11	103.976				
Na	23	103.065				
Mg	24	101.817				
Al	27	100.554				
P	31	103.532				
K	39	101.856				
Ca	43	101.152				
> Sc	45		91.6			
V	51	101.774				
Cr	52	102.413				
Cr	53					
Mn	55	103.762				
Fe	57	103.049				
Co	59	100.408				
Ni	60	103.866				
Cu	63					
Cu	65	102.297				
Zn	66	104.939				
Zn	67					
Zn	68					
> Ge	74		94.6			
As	75	94.644				
Se	77					
Se	82	98.585				
Kr	83					
Sr	88	103.062				
Y	89					
Ag	107	102.360				
Cd	111	99.163				
Cd	114					
> In	115		92.0			
Sn	120	99.862				
Sb	121	102.377				
Sb	123					
Ba	135					
Ba	137	101.900				
Ho	165					
> Lu	175		92.8			
Tl	205	96.710				
Pb	208	102.367				
Bi	209					
U	238	107.838				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, January 30, 2010 16:48:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 2.228

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.025	ug/L	40.020	100	0.000
Be	9	0.001	ug/L	1650.339	16	0.000
B	11	2.536	ug/L	24.501	1081	0.001
Na	23	0.935	ug/L	147.652	15342	0.003
Mg	24	-0.716	ug/L	229.440	3667	-0.001
Al	27	0.241	ug/L	103.606	6668	0.001
P	31	-0.043	ug/L	5028.149	7702	-0.000
K	39	-2.772	ug/L	349.825	467544	-0.010
Ca	43	-4.739	ug/L	182.619	747	-0.000
Sc	45		ug/L		758830	758830.153
V	51	0.908	ug/L	90.019	18716	0.005
Cr	52	-0.186	ug/L	23.801	7662	-0.001
Cr	53		ug/L		139820	0.000
Mn	55	-0.012	ug/L	57.243	1275	-0.000
Fe	57	2.520	ug/L	129.720	5357	0.000
Co	59	0.003	ug/L	153.835	165	0.000
Ni	60	0.004	ug/L	238.971	94	0.000
Cu	63		ug/L		141	0.000
Cu	65	0.004	ug/L	192.937	119	0.000
Zn	66	-0.020	ug/L	94.024	317	-0.000
Zn	67		ug/L		14068	-0.001
Zn	68		ug/L		1023	0.000
Ge	74		ug/L		208339	208338.946
As	75	0.051	ug/L	951.652	191	0.000
Se	77		ug/L		7188	0.001
Se	82	-0.154	ug/L	118.428	-19	-0.000
Kr	83		ug/L		79	0.000
Sr	88	0.001	ug/L	192.580	190	0.000
Y	89		ug/L		34	-0.000
Ag	107	0.003	ug/L	137.991	76	0.000
Cd	111	0.006	ug/L	148.607	26	0.000
Cd	114		ug/L		34	-0.000
In	115		ug/L		125086	125086.331
Sn	120	0.344	ug/L	22.401	1519	0.009
Sb	121	0.926	ug/L	29.510	3210	0.022
Sb	123		ug/L		2459	0.017
Ba	135		ug/L		22	-0.000
Ba	137	-0.000	ug/L	7518.252	38	-0.000
Ho	165		ug/L		21	0.000
Lu	175		ug/L		163672	163672.222
Tl	205	0.413	ug/L	23.221	3204	0.015
Pb	208	0.004	ug/L	60.752	409	0.000
Bi	209		ug/L		28	0.000
U	238	0.063	ug/L	27.063	819	0.004

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.0			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		101.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.2			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, January 30, 2010 16:54:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 3.229

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.296	ug/L	4.615	6755	0.010
Be	9	0.540	ug/L	19.586	139	0.000
B	11	16.907	ug/L	2.615	4076	0.005
Na	23	309.569	ug/L	8.138	645298	0.908
Mg	24	22.716	ug/L	21.679	36381	0.046
Al	27	38.817	ug/L	5.321	86931	0.117
P	31	45.003	ug/L	4.002	14226	0.010
K	39	418.774	ug/L	2.232	1519021	1.551
Ca	43	203.461	ug/L	7.275	2163	0.002
> Sc	45		ug/L		697680	697680.381
V	51	10.767	ug/L	22.071	55066	0.059
Cr	52	10.417	ug/L	2.009	42169	0.049
Cr	53		ug/L		112099	-0.024
Mn	55	5.699	ug/L	2.042	28703	0.039
Fe	57	113.701	ug/L	3.226	15495	0.015
Co	59	1.095	ug/L	2.641	4181	0.006
Ni	60	2.418	ug/L	3.767	1986	0.003
Cu	63		ug/L		2283	0.003
Cu	65	1.164	ug/L	6.773	1135	0.001
Zn	66	12.962	ug/L	0.193	7655	0.037
Zn	67		ug/L		10709	-0.014
Zn	68		ug/L		6167	0.026
> Ge	74		ug/L		197172	197172.012
As	75	5.093	ug/L	18.595	3677	0.018
Se	77		ug/L		5414	-0.006
Se	82	5.168	ug/L	9.001	309	0.002
Kr	83		ug/L		73	0.000
Sr	88	11.419	ug/L	0.581	81429	0.697
Y	89		ug/L		39	-0.000
Ag	107	1.034	ug/L	0.457	3330	0.028
Cd	111	1.109	ug/L	5.584	895	0.008
Cd	114		ug/L		2009	0.017
> In	115		ug/L		116650	116649.842
Sn	120	5.261	ug/L	2.514	16841	0.141
Sb	121	3.111	ug/L	7.171	9004	0.073
Sb	123		ug/L		6842	0.056
Ba	135		ug/L		1548	0.010
Ba	137	2.210	ug/L	1.046	2852	0.018
Ho	165		ug/L		21	0.000
> Lu	175		ug/L		154143	154143.069
Tl	205	1.131	ug/L	0.624	7075	0.041
Pb	208	2.282	ug/L	1.766	22439	0.143
Bi	209		ug/L		40	0.000
U	238	0.249	ug/L	2.342	2638	0.016

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	112.957				
Be	9	107.979				
B	11	112.716				
Na	23	123.828				
Mg	24	151.439				
Al	27	129.389				
P	31	90.006				
K	39	139.591				
Ca	43	101.730				
> Sc	45		93.8			
V	51	107.666				
Cr	52	104.172				
Cr	53					
Mn	55	113.981				
Fe	57	113.701				
Co	59	109.478				
Ni	60	120.900				
Cu	63					
Cu	65	116.383				
Zn	66	129.625				
Zn	67					
Zn	68					
> Ge	74		95.9			
As	75	101.859				
Se	77					
Se	82	103.361				
Kr	83					
Sr	88	114.193				
Y	89					
Ag	107	103.418				
Cd	111	110.880				
Cd	114					
> In	115		93.9			
Sn	120	105.215				
Sb	121	103.709				
Sb	123					
Ba	135					
Ba	137	110.503				
Ho	165					
> Lu	175		94.4			
Tl	205	113.113				
Pb	208	114.087				
Bi	209					
U	238	124.518				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Mg	24	CRDL is out of limits
QC Std 3	K	39	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, January 30, 2010 17:00:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 4.230

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.350	ug/L	7.360	282	0.000
Be	9	0.076	ug/L	15.569	32	0.000
B	11	1.594	ug/L	6.861	787	0.000
Na	23	111522.402	ug/L	7.242	227124298	327.067
Mg	24	111916.674	ug/L	9.250	156642882	225.687
Al	27	104307.052	ug/L	4.724	217469514	313.197
P	31	77469.976	ug/L	0.507	12236535	17.616
K	39	99496.877	ug/L	8.176	256244461	368.508
Ca	43	88616.126	ug/L	0.419	625960	0.901
Sc	45		ug/L		694230	694230.324
V	51	-1.661	ug/L	34.856	7314	-0.009
Cr	52	1.149	ug/L	6.817	11410	0.005
Cr	53		ug/L		81753	-0.066
Mn	55	5.350	ug/L	0.288	26888	0.037
Fe	57	68753.548	ug/L	1.079	6510127	9.371
Co	59	0.281	ug/L	2.709	1173	0.001
Ni	60	3.463	ug/L	3.812	2794	0.004
Cu	63		ug/L		4381	0.006
Cu	65	4.403	ug/L	0.907	3982	0.006
Zn	66	7.195	ug/L	1.702	4153	0.021
Zn	67		ug/L		9660	-0.016
Zn	68		ug/L		1959	0.006
Ge	74		ug/L		186640	186640.182
As	75	0.142	ug/L	157.728	231	0.000
Se	77		ug/L		5420	-0.005
Se	82	-2.298	ug/L	3.420	-142	-0.001
Kr	83		ug/L		226	0.001
Sr	88	2.781	ug/L	2.369	19429	0.170
Y	89		ug/L		235	0.002
Ag	107	0.388	ug/L	41.169	1255	0.011
Cd	111	1.511	ug/L	40.714	1181	0.010
Cd	114		ug/L		5351	0.047
In	115		ug/L		113566	113566.176
Sn	120	0.318	ug/L	4.446	1301	0.009
Sb	121	0.172	ug/L	30.635	899	0.004
Sb	123		ug/L		718	0.003
Ba	135		ug/L		531	0.003
Ba	137	0.668	ug/L	4.841	884	0.006
Ho	165		ug/L		3731	0.024
Lu	175		ug/L		153774	153774.440
Tl	205	0.032	ug/L	26.818	866	0.001
Pb	208	0.234	ug/L	3.990	2604	0.015
Bi	209		ug/L		1450	0.009
U	238	0.001	ug/L	155.043	152	0.000

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23	111.522				
Mg	24	111.917				
Al	27	104.307				
P	31	77.470				
K	39	99.497				
Ca	43	88.616				
> Sc	45		93.3			
V	51					
Cr	52	34.813				
Cr	53					
Mn	55	92.234				
Fe	57	68.754				
Co	59	119.611				
Ni	60	104.617				
Cu	63					
Cu	65	131.827				
Zn	66	191.365				
Zn	67					
Zn	68					
> Ge	74		90.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	93.946				
Y	89					
Ag	107					
Cd	111	340.232				
Cd	114					
> In	115		91.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137	83.702				
Ho	165					
> Lu	175		94.2			
Tl	205					
Pb	208	123.974				
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	P	31	ICSA is out of limits
QC Std 4	Fe	57	ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, January 30, 2010 17:06:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 5.231

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.593	ug/L	4.572	11830	0.017
Be	9	20.749	ug/L	4.794	4860	0.007
B	11	22.524	ug/L	2.757	5357	0.007
Na	23	108229.947	ug/L	1.881	224602446	317.411
Mg	24	109217.697	ug/L	0.551	155846122	220.244
Al	27	112380.455	ug/L	3.096	238774583	337.439
P	31	77677.520	ug/L	0.693	12505304	17.663
K	39	94302.567	ug/L	3.965	247571572	349.270
Ca	43	88763.823	ug/L	0.547	639074	0.902
> Sc	45		ug/L		707587	707587.246
V	51	16.520	ug/L	4.718	78250	0.091
Cr	52	20.081	ug/L	0.890	75242	0.095
Cr	53		ug/L		86279	-0.062
Mn	55	23.990	ug/L	0.393	118556	0.166
Fe	57	67651.881	ug/L	0.801	6529259	9.221
Co	59	18.442	ug/L	1.092	69153	0.098
Ni	60	21.054	ug/L	1.752	16890	0.024
Cu	63		ug/L		36213	0.051
Cu	65	21.544	ug/L	0.328	19443	0.027
Zn	66	25.478	ug/L	1.457	13972	0.073
Zn	67		ug/L		11247	-0.008
Zn	68		ug/L		9156	0.044
> Ge	74		ug/L		186839	186838.737
As	75	20.666	ug/L	3.275	13708	0.073
Se	77		ug/L		5953	-0.002
Se	82	18.921	ug/L	1.897	1095	0.006
Kr	83		ug/L		219	0.001
Sr	88	22.769	ug/L	0.896	157263	1.389
Y	89		ug/L		221	0.002
Ag	107	18.330	ug/L	0.078	56238	0.497
Cd	111	19.211	ug/L	0.519	14723	0.130
Cd	114		ug/L		38096	0.337
> In	115		ug/L		113103	113102.585
Sn	120	19.103	ug/L	0.941	58439	0.514
Sb	121	19.949	ug/L	1.554	53629	0.470
Sb	123		ug/L		41378	0.363
Ba	135		ug/L		13899	0.090
Ba	137	19.202	ug/L	1.816	24453	0.159
Ho	165		ug/L		3698	0.024
> Lu	175		ug/L		153835	153834.746
Tl	205	17.647	ug/L	1.333	100125	0.646
Pb	208	18.816	ug/L	0.859	182211	1.182
Bi	209		ug/L		1567	0.010
U	238	20.092	ug/L	0.470	201265	1.307

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % D	Duplicate Rel. % Difference
Li	7	97.964				
Be	9	103.746				
B	11	112.621				
Na	23	108.230				
Mg	24	109.218				
Al	27	112.380				
P	31	77.678				
K	39	94.303				
Ca	43	88.764				
> Sc	45		95.1			
V	51	82.598				
Cr	52	86.185				
Cr	53					
Mn	55	92.983				
Fe	57	67.652				
Co	59	91.070				
Ni	60	90.323				
Cu	63					
Cu	65	94.079				
Zn	66	107.229				
Zn	67					
Zn	68					
> Ge	74		90.9			
As	75	103.329				
Se	77					
Se	82	94.603				
Kr	83					
Sr	88	99.169				
Y	89					
Ag	107	91.648				
Cd	111	93.971				
Cd	114					
> In	115		91.0			
Sn	120	95.517				
Sb	121	99.745				
Sb	123					
Ba	135					
Ba	137	92.898				
Ho	165					
> Lu	175		94.2			
Tl	205	88.234				
Pb	208	93.147				
Bi	209					
U	238	100.458				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	P	31	ICSAB is out of limits
QC Std 5	Fe	57	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 17:12:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 6.232

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.856	ug/L	2.881	31024	0.043
Be	9	52.872	ug/L	2.835	12540	0.017
B	11	105.646	ug/L	2.525	23781	0.032
Na	23	5417.223	ug/L	10.067	11417291	15.887
Mg	24	5976.167	ug/L	4.685	8654798	12.051
Al	27	5666.406	ug/L	1.258	12218358	17.014
P	31	5135.587	ug/L	0.411	845510	1.168
K	39	5114.497	ug/L	2.478	14046631	18.943
Ca	43	5024.671	ug/L	0.639	37396	0.051
> Sc	45		ug/L		717788	717787.775
V	51	47.193	ug/L	2.407	200544	0.260
Cr	52	48.705	ug/L	0.544	173889	0.231
Cr	53		ug/L		111631	-0.029
Mn	55	50.346	ug/L	0.490	251010	0.348
Fe	57	4964.321	ug/L	0.789	490491	0.677
Co	59	48.237	ug/L	0.388	183254	0.255
Ni	60	49.263	ug/L	0.641	39975	0.056
Cu	63		ug/L		90021	0.125
Cu	65	48.167	ug/L	0.664	43961	0.061
Zn	66	53.589	ug/L	0.729	30309	0.154
Zn	67		ug/L		13920	0.003
Zn	68		ug/L		22794	0.112
> Ge	74		ug/L		194845	194844.731
As	75	48.102	ug/L	0.661	33082	0.169
Se	77		ug/L		6587	0.000
Se	82	50.572	ug/L	0.925	3066	0.016
Kr	83		ug/L		76	0.000
Sr	88	50.968	ug/L	0.687	357192	3.109
Y	89		ug/L		70	0.000
Ag	107	49.701	ug/L	0.239	154717	1.347
Cd	111	49.424	ug/L	1.357	38424	0.334
Cd	114		ug/L		89737	0.781
> In	115		ug/L		114831	114831.085
Sn	120	49.061	ug/L	1.589	151846	1.320
Sb	121	49.709	ug/L	4.758	134995	1.172
Sb	123		ug/L		103883	0.902
Ba	135		ug/L		35146	0.235
Ba	137	50.322	ug/L	1.251	62129	0.416
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		149268	149267.602
Tl	205	47.470	ug/L	1.420	260211	1.739
Pb	208	50.785	ug/L	0.166	476663	3.191
Bi	209		ug/L		127	0.001
U	238	52.050	ug/L	0.795	505707	3.387

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
Li	7		101.712								
Be	9		105.744								
B	11		105.646								
Na	23		108.344								
Mg	24		119.523								
Al	27		112.206								
P	31		102.712								
K	39		102.290								
Ca	43		100.493								
> Sc	45					96.5					
V	51		94.386								
Cr	52		97.410								
Cr	53										
Mn	55		100.693								
Fe	57		99.286								
Co	59		96.474								
Ni	60		98.527								
Cu	63										
Cu	65		96.335								
Zn	66		107.178								
Zn	67										
Zn	68										
> Ge	74					94.8					
As	75		96.203								
Se	77										
Se	82		101.143								
Kr	83										
Sr	88		101.935								
Y	89										
Ag	107		99.402								
Cd	111		98.847								
Cd	114										
> In	115					92.4					
Sn	120		98.123								
Sb	121		99.419								
Sb	123										
Ba	135										
Ba	137		100.644								
Ho	165										
> Lu	175					91.4					
Tl	205		94.939								
Pb	208		101.570								
Bi	209										
U	238		104.100								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Mg	24	CCV is out of limits (+/- 10%)
QC Std 6	Al	27	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 17:18:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 7.233

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.019	ug/L	129.339	74	-0.000
Be	9	-0.017	ug/L	55.246	12	-0.000
B	11	1.798	ug/L	42.401	947	0.001
Na	23	7.699	ug/L	12.771	31702	0.023
Mg	24	0.646	ug/L	92.295	6001	0.001
Al	27	1.527	ug/L	74.960	10004	0.005
P	31	-1.687	ug/L	51.510	7738	-0.000
K	39	1.379	ug/L	278.175	499933	0.005
Ca	43	-5.488	ug/L	73.558	773	-0.000
> Sc	45		ug/L		791681	791681.348
V	51	-0.631	ug/L	153.850	12825	-0.003
Cr	52	-0.805	ug/L	4.728	5669	-0.004
Cr	53		ug/L		133057	-0.016
Mn	55	-0.055	ug/L	11.505	1094	-0.000
Fe	57	-0.429	ug/L	560.355	5270	-0.000
Co	59	-0.001	ug/L	817.458	159	-0.000
Ni	60	-0.001	ug/L	3321.744	94	-0.000
Cu	63		ug/L		138	0.000
Cu	65	0.016	ug/L	54.870	136	0.000
Zn	66	-0.006	ug/L	1339.054	328	-0.000
Zn	67		ug/L		13957	-0.002
Zn	68		ug/L		957	-0.000
> Ge	74		ug/L		210104	210103.911
As	75	-0.424	ug/L	79.025	-156	-0.001
Se	77		ug/L		6683	-0.002
Se	82	0.018	ug/L	377.478	-8	0.000
Kr	83		ug/L		70	-0.000
Sr	88	-0.001	ug/L	177.998	179	-0.000
Y	89		ug/L		39	-0.000
Ag	107	0.001	ug/L	134.537	68	0.000
Cd	111	0.002	ug/L	1064.907	23	0.000
Cd	114		ug/L		40	0.000
> In	115		ug/L		125354	125354.316
Sn	120	0.240	ug/L	31.525	1171	0.006
Sb	121	0.595	ug/L	33.483	2241	0.014
Sb	123		ug/L		1681	0.011
Ba	135		ug/L		30	-0.000
Ba	137	-0.001	ug/L	463.358	37	-0.000
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		163804	163803.797
Tl	205	0.368	ug/L	26.289	2936	0.013
Pb	208	0.000	ug/L	423.461	368	0.000
Bi	209		ug/L		24	-0.000
U	238	0.053	ug/L	40.300	713	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		106.4			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015846

Sample Date/Time: Saturday, January 30, 2010 17:24:11

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\1202015846.234

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.067	ug/L	11.435	46	-0.000
Be	9	-0.031	ug/L	28.526	9	-0.000
B	11	0.216	ug/L	94.081	609	0.000
Na	23	8.391	ug/L	7.491	36045	0.025
Mg	24	-1.182	ug/L	56.004	3334	-0.002
Al	27	4.712	ug/L	30.349	19013	0.014
P	31	8.938	ug/L	9.983	10440	0.002
K	39	-30.591	ug/L	28.028	439334	-0.113
Ca	43	-22.029	ug/L	12.496	692	-0.000
> Sc	45		ug/L		856353	856352.616
V	51	-1.720	ug/L	25.860	8732	-0.009
Cr	52	-1.164	ug/L	3.974	4673	-0.006
Cr	53		ug/L		90558	-0.078
Mn	55	0.087	ug/L	11.914	2023	0.001
Fe	57	-3.490	ug/L	16.734	5344	-0.000
Co	59	-0.005	ug/L	18.473	152	-0.000
Ni	60	0.209	ug/L	6.326	304	0.000
Cu	63		ug/L		241	0.000
Cu	65	0.033	ug/L	15.354	165	0.000
Zn	66	2.028	ug/L	2.876	1668	0.006
Zn	67		ug/L		8646	-0.030
Zn	68		ug/L		1697	0.003
> Ge	74		ug/L		225343	225342.615
As	75	-0.480	ug/L	22.195	-213	-0.002
Se	77		ug/L		4073	-0.016
Se	82	0.074	ug/L	284.097	-5	0.000
Kr	83		ug/L		67	-0.000
Sr	88	0.021	ug/L	12.167	373	0.001
Y	89		ug/L		63	0.000
Ag	107	-0.005	ug/L	13.827	53	-0.000
Cd	111	0.009	ug/L	103.757	31	0.000
Cd	114		ug/L		35	-0.000
> In	115		ug/L		136319	136318.697
Sn	120	0.118	ug/L	4.724	829	0.003
Sb	121	0.029	ug/L	59.858	619	0.001
Sb	123		ug/L		455	0.000
Ba	135		ug/L		65	0.000
Ba	137	0.048	ug/L	6.785	113	0.000
Ho	165		ug/L		18	-0.000
> Lu	175		ug/L		180855	180854.740
Tl	205	0.127	ug/L	17.327	1651	0.005
Pb	208	0.053	ug/L	15.322	1002	0.003
Bi	209		ug/L		43	0.000
U	238	0.001	ug/L	110.338	179	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.1			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		109.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		109.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		110.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015851

Sample Date/Time: Saturday, January 30, 2010 17:30:03

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 941798[40]rmj

Method File: c:\elandata\Method\6020 noirs tht\mozr.mth

Dataset File: c:\elandata\dataset\100129\1202015851.235

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	2.581	ug/L	3.255	1662	0.002
Be	9	22.111	ug/L	1.786	5295	0.007
B	11	44.784	ug/L	2.101	10427	0.014
Na	23	405.357	ug/L	5.753	872957	1.189
Mg	24	1306.702	ug/L	6.223	1909732	2.635
Al	27	3862.913	ug/L	5.472	8396268	11.599
P	31	201.160	ug/L	1.777	40433	0.046
K	39	1182.850	ug/L	10.584	3619453	4.381
Ca	43	2744.035	ug/L	0.374	20921	0.028
> Sc	45		ug/L		723366	723366.207
V	51	29.844	ug/L	1.784	133020	0.164
Cr	52	70.626	ug/L	1.212	250525	0.335
Cr	53		ug/L		112591	-0.029
Mn	55	149.710	ug/L	1.143	749622	1.035
Fe	57	4592.361	ug/L	1.131	457596	0.626
Co	59	27.171	ug/L	1.015	104083	0.144
Ni	60	41.183	ug/L	1.600	33690	0.046
Cu	63		ug/L		91097	0.126
Cu	65	48.377	ug/L	0.381	44495	0.061
Zn	66	170.601	ug/L	0.415	97301	0.490
Zn	67		ug/L		22663	0.046
Zn	68		ug/L		72082	0.359
> Ge	74		ug/L		197869	197868.964
As	75	29.441	ug/L	1.466	20619	0.103
Se	77		ug/L		7582	0.005
Se	82	82.947	ug/L	1.405	5112	0.026
Kr	83		ug/L		75	0.000
Sr	88	66.425	ug/L	0.346	472785	4.052
Y	89		ug/L		22545	0.193
Ag	107	6.099	ug/L	2.076	19336	0.165
Cd	111	16.907	ug/L	1.175	13365	0.114
Cd	114		ug/L		31722	0.272
> In	115		ug/L		116634	116634.303
Sn	120	9.579	ug/L	1.194	30386	0.258
Sb	121	15.403	ug/L	0.915	42803	0.363
Sb	123		ug/L		33039	0.280
Ba	135		ug/L		38532	0.252
Ba	137	54.238	ug/L	1.584	68424	0.448
Ho	165		ug/L		1279	0.008
> Lu	175		ug/L		152521	152520.733
Tl	205	33.395	ug/L	1.868	187243	1.223
Pb	208	23.025	ug/L	1.217	221001	1.447
Bi	209		ug/L		1841	0.012
U	238	0.515	ug/L	2.688	5249	0.034

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.2			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		96.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.4			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 17:35:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 6.236

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.419	ug/L	0.823	30036	0.042
Be	9	52.381	ug/L	1.260	12376	0.017
B	11	103.638	ug/L	2.156	23250	0.032
Na	23	5978.676	ug/L	3.382	12555080	17.534
Mg	24	6003.050	ug/L	5.295	8662268	12.106
Al	27	5527.965	ug/L	7.086	11883001	16.599
P	31	5198.241	ug/L	1.449	852446	1.182
K	39	5076.002	ug/L	4.161	13886479	18.800
Ca	43	5140.312	ug/L	1.250	38093	0.052
> Sc	45		ug/L		715099	715099.458
V	51	48.630	ug/L	3.478	205420	0.268
Cr	52	48.412	ug/L	1.572	172221	0.230
Cr	53		ug/L		112097	-0.027
Mn	55	49.723	ug/L	1.064	246980	0.344
Fe	57	4930.292	ug/L	0.952	485295	0.672
Co	59	48.206	ug/L	1.457	182425	0.255
Ni	60	49.493	ug/L	1.652	40005	0.056
Cu	63		ug/L		90625	0.127
Cu	65	48.403	ug/L	1.347	44006	0.061
Zn	66	52.868	ug/L	0.635	30022	0.152
Zn	67		ug/L		13540	0.001
Zn	68		ug/L		22860	0.112
> Ge	74		ug/L		195613	195612.778
As	75	47.389	ug/L	0.923	32724	0.167
Se	77		ug/L		6637	0.000
Se	82	50.210	ug/L	0.863	3056	0.016
Kr	83		ug/L		68	0.000
Sr	88	50.675	ug/L	1.115	355693	3.091
Y	89		ug/L		75	0.000
Ag	107	49.709	ug/L	0.900	154978	1.347
Cd	111	49.202	ug/L	0.768	38313	0.333
Cd	114		ug/L		89029	0.774
> In	115		ug/L		115007	115006.921
Sn	120	48.722	ug/L	0.796	151031	1.310
Sb	121	49.339	ug/L	3.363	134202	1.163
Sb	123		ug/L		103615	0.898
Ba	135		ug/L		35645	0.234
Ba	137	49.529	ug/L	0.884	62364	0.409
Ho	165		ug/L		25	0.000
> Lu	175		ug/L		152226	152225.594
Tl	205	46.993	ug/L	1.499	262710	1.721
Pb	208	49.772	ug/L	1.048	476423	3.127
Bi	209		ug/L		139	0.001
U	238	51.036	ug/L	0.231	505693	3.321

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	98.839				
Be	9	104.763				
B	11	103.638				
Na	23	119.574				
Mg	24	120.061				
Al	27	109.465				
P	31	103.965				
K	39	101.520				
Ca	43	102.806				
> Sc	45		96.1			
V	51	97.259				
Cr	52	96.825				
Cr	53					
Mn	55	99.446				
Fe	57	98.606				
Co	59	96.412				
Ni	60	98.986				
Cu	63					
Cu	65	96.806				
Zn	66	105.736				
Zn	67					
Zn	68					
> Ge	74		95.2			
As	75	94.779				
Se	77					
Se	82	100.419				
Kr	83					
Sr	88	101.351				
Y	89					
Ag	107	99.419				
Cd	111	98.404				
Cd	114					
> In	115		92.5			
Sn	120	97.444				
Sb	121	98.679				
Sb	123					
Ba	135					
Ba	137	99.058				
Ho	165					
> Lu	175		93.2			
Tl	205	93.986				
Pb	208	99.544				
Bi	209					
U	238	102.071				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Na	23	CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 17:41:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs tht\mozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 7.237

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.027	ug/L	63.420	68	-0.000
Be	9	-0.016	ug/L	152.223	12	-0.000
B	11	1.782	ug/L	30.973	940	0.001
Na	23	2.696	ug/L	115.559	20015	0.008
Mg	24	-0.175	ug/L	829.268	4668	-0.000
Al	27	-0.291	ug/L	167.322	5668	-0.001
P	31	-1.590	ug/L	59.636	7723	-0.000
K	39	-0.025	ug/L	26325.163	493729	-0.000
Ca	43	-14.839	ug/L	37.254	695	-0.000
Sc	45		ug/L		788281	788280.965
V	51	-0.444	ug/L	129.852	13578	-0.002
Cr	52	-0.716	ug/L	6.881	5975	-0.003
Cr	53		ug/L		134616	-0.013
Mn	55	-0.049	ug/L	11.472	1123	-0.000
Fe	57	-3.088	ug/L	46.062	4962	-0.000
Co	59	0.002	ug/L	97.850	167	0.000
Ni	60	0.004	ug/L	328.311	98	0.000
Cu	63		ug/L		147	0.000
Cu	65	0.005	ug/L	296.321	124	0.000
Zn	66	0.003	ug/L	466.588	325	0.000
Zn	67		ug/L		13639	-0.001
Zn	68		ug/L		1020	0.000
Ge	74		ug/L		204856	204856.148
As	75	-0.084	ug/L	297.572	91	-0.000
Se	77		ug/L		6867	-0.000
Se	82	-0.136	ug/L	92.008	-18	-0.000
Kr	83		ug/L		68	-0.000
Sr	88	0.000	ug/L	950.583	179	0.000
Y	89		ug/L		36	-0.000
Ag	107	-0.001	ug/L	138.736	60	-0.000
Cd	111	-0.000	ug/L	1815.943	20	-0.000
Cd	114		ug/L		29	-0.000
In	115		ug/L		122043	122043.369
Sn	120	0.262	ug/L	31.378	1212	0.007
Sb	121	0.578	ug/L	33.063	2130	0.014
Sb	123		ug/L		1690	0.011
Ba	135		ug/L		27	-0.000
Ba	137	-0.003	ug/L	78.795	34	-0.000
Ho	165		ug/L		12	-0.000
Lu	175		ug/L		162105	162104.937
Tl	205	0.389	ug/L	19.936	3036	0.014
Pb	208	0.004	ug/L	57.629	399	0.000
Bi	209		ug/L		31	0.000
U	238	0.048	ug/L	42.286	655	0.003

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		105.9			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628001

Sample Date/Time: Saturday, January 30, 2010 17:47:46

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628001.238

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	31.229	ug/L	3.237	22567	0.026
Be	9	2.193	ug/L	1.431	632	0.001
B	11	16.437	ug/L	5.208	4838	0.005
Na	23	588.510	ug/L	3.879	1479914	1.726
Mg	24	4768.245	ug/L	5.461	8166783	9.615
Al	27	34532.944	ug/L	4.050	88060950	103.690
P	31	232.626	ug/L	2.906	53531	0.053
K	39	3802.559	ug/L	3.540	12486990	14.084
Ca	43	6940.730	ug/L	1.368	60766	0.071
> Sc	45		ug/L		849082	849081.664
V	51	34.369	ug/L	2.617	177275	0.189
Cr	52	23.814	ug/L	0.850	105335	0.113
Cr	53		ug/L		89017	-0.079
Mn	55	301.746	ug/L	0.481	1772091	2.085
Fe	57	16259.123	ug/L	1.197	1887466	2.216
Co	59	7.497	ug/L	0.552	33838	0.040
Ni	60	17.258	ug/L	1.406	16630	0.019
Cu	63		ug/L		19946	0.023
Cu	65	9.346	ug/L	2.246	10192	0.012
Zn	66	54.329	ug/L	0.803	33538	0.156
Zn	67		ug/L		14096	-0.002
Zn	68		ug/L		26777	0.121
> Ge	74		ug/L		212702	212701.888
As	75	6.483	ug/L	5.096	5004	0.023
Se	77		ug/L		3515	-0.017
Se	82	0.134	ug/L	153.098	-0	0.000
Kr	83		ug/L		155	0.000
Sr	88	52.292	ug/L	0.874	423641	3.190
Y	89		ug/L		467685	3.523
Ag	107	0.357	ug/L	5.813	1355	0.010
Cd	111	1.324	ug/L	10.161	1211	0.009
Cd	114		ug/L		239	0.002
> In	115		ug/L		132747	132747.495
Sn	120	2.000	ug/L	1.334	7525	0.054
Sb	121	0.222	ug/L	12.893	1205	0.005
Sb	123		ug/L		947	0.004
Ba	135		ug/L		135518	0.743
Ba	137	156.189	ug/L	1.568	235544	1.291
Ho	165		ug/L		26218	0.144
> Lu	175		ug/L		182404	182403.634
Tl	205	0.402	ug/L	8.760	3500	0.015
Pb	208	23.003	ug/L	1.317	264036	1.445
Bi	209		ug/L		6604	0.036
U	238	12.870	ug/L	0.996	152922	0.838

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate	Rel. % Difference
Li	7						
Be	9						
B	11						
Na	23						
Mg	24						
Al	27						
P	31						
K	39						
Ca	43						
> Sc	45		114.1				
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		103.5				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Ag	107						
Cd	111						
Cd	114						
> In	115		106.8				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		111.7				
Tl	205						
Pb	208						
Bi	209						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015847

Sample Date/Time: Saturday, January 30, 2010 17:53:38

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\1202015847.239

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	36.427 ug/L	5.082	26684	0.031
|	Be	9	2.234 ug/L	5.386	653	0.001
|	B	11	14.732 ug/L	1.667	4456	0.005
|	Na	23	582.324 ug/L	18.689	1485164	1.708
|	Mg	24	5074.429 ug/L	5.533	8816640	10.233
|	Al	27	35397.123 ug/L	4.936	91532887	106.285
|	P	31	223.272 ug/L	1.091	52473	0.051
|	K	39	3798.315 ug/L	0.336	12654534	14.068
|	Ca	43	6278.371 ug/L	0.601	55840	0.064
>	Sc	45	ug/L		861199	861198.674
|	V	51	34.218 ug/L	2.584	179127	0.188
|	Cr	52	23.108 ug/L	1.413	103953	0.110
|	Cr	53	ug/L		84742	-0.086
|	Mn	55	306.988 ug/L	0.548	1828563	2.122
|	Fe	57	16063.389 ug/L	0.306	1891279	2.189
|	Co	59	7.298 ug/L	0.807	33414	0.039
|	Ni	60	16.900 ug/L	0.808	16520	0.019
|	Cu	63	ug/L		19313	0.022
|	Cu	65	9.002 ug/L	0.224	9964	0.011
[	Zn	66	58.000 ug/L	0.544	35651	0.167
|	Zn	67	ug/L		13796	-0.003
|	Zn	68	ug/L		28073	0.128
>	Ge	74	ug/L		211921	211921.405
|	As	75	6.344 ug/L	10.291	4882	0.022
|	Se	77	ug/L		3205	-0.019
|	Se	82	-0.072 ug/L	164.104	-14	-0.000
[	Kr	83	ug/L		147	0.000
[	Sr	88	50.128 ug/L	0.690	405021	3.058
|	Y	89	ug/L		459413	3.470
|	Ag	107	0.234 ug/L	6.924	908	0.006
|	Cd	111	0.929 ug/L	4.152	854	0.006
|	Cd	114	ug/L		249	0.002
>	In	115	ug/L		132386	132386.396
|	Sn	120	1.867 ug/L	0.931	7032	0.050
|	Sb	121	0.151 ug/L	14.172	983	0.004
[	Sb	123	ug/L		765	0.003
[	Ba	135	ug/L		134219	0.745
|	Ba	137	158.542 ug/L	1.023	236194	1.311
|	Ho	165	ug/L		25962	0.144
>	Lu	175	ug/L		180176	180175.889
|	Tl	205	0.336 ug/L	2.778	3024	0.012
|	Pb	208	24.075 ug/L	0.293	272968	1.513
|	Bi	209	ug/L		7135	0.039
[	U	238	4.292 ug/L	0.789	50489	0.279

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % DI	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.7			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		103.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		106.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		110.4			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015849

Sample Date/Time: Saturday, January 30, 2010 17:59:32

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 941798[2]rm]

Method File: c:\elandata\Method\6020 nohrs thtimobr.mth

Dataset File: c:\elandata\dataset\100129\1202015849.240

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	59.026	ug/L	4.596	43283	0.050
Be	9	24.944	ug/L	3.801	7124	0.008
B	11	64.925	ug/L	0.856	17787	0.020
Na	23	1511.883	ug/L	5.404	3841884	4.434
Mg	24	6784.968	ug/L	3.016	11814447	13.682
Al	27	41896.321	ug/L	5.200	108576942	125.800
P	31	1024.074	ug/L	0.641	209744	0.233
K	39	5528.550	ug/L	4.022	18213068	20.476
Ca	43	7808.051	ug/L	1.752	69380	0.079
> Sc	45		ug/L		863068	863068.068
V	51	57.842	ug/L	1.920	291710	0.318
Cr	52	47.395	ug/L	0.572	203715	0.225
Cr	53		ug/L		95902	-0.073
Mn	55	325.966	ug/L	0.115	1945765	2.253
Fe	57	17639.317	ug/L	0.776	2080784	2.404
Co	59	26.951	ug/L	0.517	123190	0.143
Ni	60	38.187	ug/L	0.807	37282	0.043
Cu	63		ug/L		62424	0.072
Cu	65	28.128	ug/L	0.492	30923	0.036
Zn	66	80.564	ug/L	1.159	49979	0.231
Zn	67		ug/L		16299	0.008
Zn	68		ug/L		38591	0.175
> Ge	74		ug/L		214464	214463.724
As	75	38.004	ug/L	1.432	28801	0.134
Se	77		ug/L		3606	-0.017
Se	82	7.147	ug/L	4.488	469	0.002
Kr	83		ug/L		188	0.001
Sr	88	76.623	ug/L	1.270	624733	4.674
Y	89		ug/L		477752	3.575
Ag	107	19.423	ug/L	6.679	70381	0.526
Cd	111	5.333	ug/L	0.268	4845	0.036
Cd	114		ug/L		8638	0.064
> In	115		ug/L		133626	133625.703
Sn	120	14.759	ug/L	1.443	53424	0.397
Sb	121	28.854	ug/L	2.586	91397	0.680
Sb	123		ug/L		70786	0.527
Ba	135		ug/L		169058	0.926
Ba	137	196.236	ug/L	0.498	296161	1.622
Ho	165		ug/L		26870	0.147
> Lu	175		ug/L		182533	182532.555
Tl	205	37.533	ug/L	1.086	251773	1.375
Pb	208	101.262	ug/L	0.576	1161822	6.363
Bi	209		ug/L		7556	0.041
U	238	24.763	ug/L	0.581	294301	1.611

Sample ID: 1202015849

Report Date/Time: Saturday, January 30, 2010 18:02:02

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.0			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		107.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		111.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015850

Sample Date/Time: Saturday, January 30, 2010 18:05:26

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\1202015850.241

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	66.683	ug/L	3.101	48203	0.057
Be	9	25.629	ug/L	3.678	7216	0.008
B	11	65.531	ug/L	4.219	17697	0.020
Na	23	1538.947	ug/L	2.278	3856660	4.513
Mg	24	6799.405	ug/L	3.364	11677504	13.711
Al	27	42366.509	ug/L	6.571	108261311	127.212
P	31	1043.983	ug/L	1.404	210687	0.237
K	39	5771.472	ug/L	7.094	18730485	21.376
Ca	43	8002.902	ug/L	1.549	70101	0.081
> Sc	45		ug/L		851132	851131.593
V	51	61.682	ug/L	1.652	305659	0.339
Cr	52	47.433	ug/L	0.705	201047	0.225
Cr	53		ug/L		90905	-0.077
Mn	55	375.786	ug/L	0.550	2211929	2.597
Fe	57	17680.930	ug/L	1.468	2056873	2.410
Co	59	27.730	ug/L	1.194	124993	0.147
Ni	60	37.969	ug/L	1.525	36555	0.043
Cu	63		ug/L		63868	0.075
Cu	65	29.083	ug/L	1.566	31524	0.037
Zn	66	85.146	ug/L	0.817	52282	0.245
Zn	67		ug/L		16396	0.009
Zn	68		ug/L		40640	0.187
> Ge	74		ug/L		212337	212336.512
As	75	38.408	ug/L	0.843	28819	0.135
Se	77		ug/L		3451	-0.018
Se	82	7.276	ug/L	1.569	473	0.002
Kr	83		ug/L		181	0.001
Sr	88	78.026	ug/L	0.432	630235	4.760
Y	89		ug/L		499461	3.773
Ag	107	20.423	ug/L	0.877	73325	0.553
Cd	111	5.328	ug/L	1.977	4794	0.036
Cd	114		ug/L		8726	0.066
> In	115		ug/L		132367	132367.044
Sn	120	15.280	ug/L	0.769	54781	0.411
Sb	121	34.720	ug/L	0.421	108860	0.819
Sb	123		ug/L		84328	0.634
Ba	135		ug/L		168870	0.933
Ba	137	197.744	ug/L	0.769	295885	1.635
Ho	165		ug/L		28260	0.156
> Lu	175		ug/L		180979	180978.674
Tl	205	38.744	ug/L	1.045	257667	1.419
Pb	208	105.187	ug/L	1.298	1196490	6.609
Bi	209		ug/L		7695	0.042
U	238	25.370	ug/L	1.996	298914	1.651

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45			114.4		
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74			103.3		
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115			106.5		
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175			110.8		
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015848

Sample Date/Time: Saturday, January 30, 2010 18:11:21

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 941798|10|rmj

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\1202015848.242

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.644	ug/L	3.902	4612	0.006
Be	9	0.520	ug/L	5.221	155	0.000
B	11	4.596	ug/L	5.664	1653	0.001
Na	23	120.831	ug/L	7.779	298771	0.354
Mg	24	1140.075	ug/L	7.059	1852465	2.299
Al	27	7451.471	ug/L	7.370	17973686	22.374
P	31	46.663	ug/L	2.542	16685	0.011
K	39	800.452	ug/L	3.327	2885214	2.965
Ca	43	1499.441	ug/L	2.253	13070	0.015
> Sc	45		ug/L		803335	803335.093
V	51	6.580	ug/L	7.275	44895	0.036
Cr	52	4.227	ug/L	3.626	24945	0.020
Cr	53		ug/L		103633	-0.055
Mn	55	88.598	ug/L	0.326	493292	0.612
Fe	57	4819.685	ug/L	0.456	533101	0.657
Co	59	1.598	ug/L	1.325	6951	0.008
Ni	60	4.071	ug/L	2.016	3785	0.005
Cu	63		ug/L		4328	0.005
Cu	65	2.109	ug/L	2.086	2271	0.003
Zn	66	15.328	ug/L	0.612	9531	0.044
Zn	67		ug/L		12316	-0.009
Zn	68		ug/L		7904	0.033
> Ge	74		ug/L		208917	208916.996
As	75	1.078	ug/L	48.589	945	0.004
Se	77		ug/L		4606	-0.012
Se	82	-0.077	ug/L	196.385	-14	-0.000
Kr	83		ug/L		92	0.000
Sr	88	11.423	ug/L	1.849	87842	0.697
Y	89		ug/L		97313	0.773
Ag	107	0.068	ug/L	1.008	297	0.002
Cd	111	0.281	ug/L	10.108	260	0.002
Cd	114		ug/L		71	0.000
> In	115		ug/L		125811	125811.318
Sn	120	0.439	ug/L	5.420	1849	0.012
Sb	121	0.090	ug/L	11.507	752	0.002
Sb	123		ug/L		575	0.002
Ba	135		ug/L		27338	0.163
Ba	137	35.058	ug/L	0.750	48457	0.290
Ho	165		ug/L		5264	0.031
> Lu	175		ug/L		167066	167066.223
Tl	205	0.453	ug/L	19.677	3517	0.017
Pb	208	5.021	ug/L	0.374	53081	0.316
Bi	209		ug/L		1405	0.008
U	238	2.804	ug/L	1.225	30640	0.182

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		108.0			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		101.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		101.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628002

Sample Date/Time: Saturday, January 30, 2010 18:17:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2][rm]

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628002.243

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	32.355	ug/L	4.988	23887	0.027
Be	9	2.986	ug/L	4.187	873	0.001
B	11	9.730	ug/L	1.463	3154	0.003
Na	23	493.908	ug/L	5.837	1271626	1.449
Mg	24	4218.559	ug/L	3.175	7384963	8.507
Al	27	26534.657	ug/L	2.887	69123111	79.674
P	31	295.038	ug/L	1.450	67007	0.067
K	39	3750.392	ug/L	6.064	12592937	13.890
Ca	43	4263.617	ug/L	1.143	38484	0.043
Sc	45		ug/L		867443	867442.836
V	51	27.052	ug/L	3.709	146208	0.149
Cr	52	14.484	ug/L	0.189	69104	0.089
Cr	53		ug/L		80207	-0.092
Mn	55	706.733	ug/L	0.271	4238269	4.884
Fe	57	17381.280	ug/L	0.234	2060821	2.369
Co	59	5.828	ug/L	0.407	26910	0.031
Ni	60	13.239	ug/L	1.901	13058	0.015
Cu	63		ug/L		40167	0.046
Cu	65	17.942	ug/L	1.361	19871	0.023
Zn	66	120.438	ug/L	0.440	75459	0.346
Zn	67		ug/L		20119	0.025
Zn	68		ug/L		57862	0.262
Ge	74		ug/L		217069	217068.545
As	75	4.861	ug/L	3.876	3869	0.017
Se	77		ug/L		3080	-0.020
Se	82	0.038	ug/L	690.243	-7	0.000
Kr	83		ug/L		171	0.000
Sr	88	34.657	ug/L	0.988	285625	2.114
Y	89		ug/L		623895	4.621
Ag	107	0.350	ug/L	2.806	1352	0.009
Cd	111	1.213	ug/L	1.215	1131	0.008
Cd	114		ug/L		1111	0.008
In	115		ug/L		135010	135010.069
Sn	120	1.418	ug/L	4.173	5539	0.038
Sb	121	0.152	ug/L	10.560	1005	0.004
Sb	123		ug/L		803	0.003
Ba	135		ug/L		159642	0.858
Ba	137	183.213	ug/L	0.495	281746	1.515
Ho	165		ug/L		33321	0.179
Lu	175		ug/L		185997	185996.601
Tl	205	0.375	ug/L	7.600	3383	0.014
Pb	208	35.196	ug/L	0.820	411728	2.212
Bi	209		ug/L		5206	0.028
U	238	22.882	ug/L	0.566	277115	1.489

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.6			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		113.9			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628003

Sample Date/Time: Saturday, January 30, 2010 18:23:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628003.244

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	27.365	ug/L	5.182	19994	0.023
Be	9	2.278	ug/L	8.973	663	0.001
B	11	7.109	ug/L	5.368	2428	0.002
Na	23	808.442	ug/L	2.687	2049005	2.371
Mg	24	3878.918	ug/L	4.458	6715187	7.822
Al	27	28854.900	ug/L	3.217	74331017	86.641
P	31	140.240	ug/L	2.129	36074	0.032
K	39	3379.893	ug/L	4.574	11279684	12.518
Ca	43	2887.159	ug/L	0.405	26060	0.029
Sc	45		ug/L		857963	857962.788
V	51	25.222	ug/L	3.253	135960	0.139
Cr	52	30.596	ug/L	0.817	134068	0.145
Cr	53		ug/L		84827	-0.085
Mn	55	411.685	ug/L	0.944	2442523	2.845
Fe	57	14541.841	ug/L	0.343	1706230	1.982
Co	59	9.761	ug/L	1.193	44460	0.052
Ni	60	21.222	ug/L	1.666	20640	0.024
Cu	63		ug/L		23843	0.028
Cu	65	10.768	ug/L	0.492	11848	0.014
Zn	66	69.497	ug/L	0.836	42872	0.200
Zn	67		ug/L		14725	0.001
Zn	68		ug/L		32935	0.150
Ge	74		ug/L		213019	213018.918
As	75	5.831	ug/L	4.059	4523	0.020
Se	77		ug/L		2957	-0.020
Se	82	-0.154	ug/L	161.472	-20	-0.000
Kr	83		ug/L		175	0.000
Sr	88	25.889	ug/L	1.763	208161	1.579
Y	89		ug/L		555442	4.217
Ag	107	0.276	ug/L	6.591	1055	0.007
Cd	111	1.084	ug/L	14.079	987	0.007
Cd	114		ug/L		174	0.001
In	115		ug/L		131695	131695.460
Sn	120	1.708	ug/L	1.834	6431	0.046
Sb	121	0.067	ug/L	24.488	717	0.002
Sb	123		ug/L		586	0.002
Ba	135		ug/L		110391	0.604
Ba	137	128.720	ug/L	0.809	194443	1.064
Ho	165		ug/L		30744	0.168
Lu	175		ug/L		182688	182687.851
Tl	205	0.339	ug/L	0.531	3087	0.012
Pb	208	19.626	ug/L	0.694	225701	1.233
Bi	209		ug/L		6171	0.034
U	238	3.169	ug/L	0.357	37841	0.206

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	115.3			
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	103.7			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	106.0			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	111.9			
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628004

Sample Date/Time: Saturday, January 30, 2010 18:29:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 noirs thtmozt.mth

Dataset File: c:\elandata\dataset\100129\244628004.245

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	23.378	ug/L	1.139	17271	0.020
Be	9	2.248	ug/L	1.898	661	0.001
B	11	6.080	ug/L	2.988	2179	0.002
Na	23	499.900	ug/L	3.589	1285746	1.466
Mg	24	2900.410	ug/L	1.587	5074361	5.849
Al	27	20132.022	ug/L	2.957	52394687	60.449
P	31	214.557	ug/L	1.240	51087	0.049
K	39	2664.121	ug/L	2.593	9094214	9.867
Ca	43	2066.924	ug/L	1.505	19100	0.021
Sc	45		ug/L		866647	866647.231
V	51	20.123	ug/L	1.607	113027	0.111
Cr	52	8.784	ug/L	0.602	45665	0.042
Cr	53		ug/L		74262	-0.099
Mn	55	495.610	ug/L	0.715	2969892	3.425
Fe	57	13563.069	ug/L	0.902	1607918	1.849
Co	59	4.353	ug/L	1.566	20128	0.023
Ni	60	8.623	ug/L	1.702	8534	0.010
Cu	63		ug/L		29926	0.034
Cu	65	13.295	ug/L	0.085	14745	0.017
Zn	66	93.922	ug/L	0.603	59047	0.270
Zn	67		ug/L		16803	0.009
Zn	68		ug/L		44843	0.201
Ge	74		ug/L		217536	217536.263
As	75	4.788	ug/L	2.550	3822	0.017
Se	77		ug/L		2933	-0.020
Se	82	0.146	ug/L	57.606	0	0.000
Kr	83		ug/L		136	0.000
Sr	88	22.042	ug/L	1.276	182019	1.345
Y	89		ug/L		501105	3.705
Ag	107	0.230	ug/L	4.062	914	0.006
Cd	111	1.103	ug/L	3.975	1031	0.007
Cd	114		ug/L		611	0.004
In	115		ug/L		135231	135231.207
Sn	120	1.156	ug/L	2.333	4594	0.031
Sb	121	0.067	ug/L	7.133	735	0.002
Sb	123		ug/L		578	0.001
Ba	135		ug/L		111310	0.604
Ba	137	127.464	ug/L	1.219	194175	1.054
Ho	165		ug/L		26723	0.145
Lu	175		ug/L		184244	184243.709
Tl	205	0.183	ug/L	2.245	2060	0.007
Pb	208	28.214	ug/L	0.731	327040	1.773
Bi	209		ug/L		3855	0.021
U	238	24.829	ug/L	0.356	297853	1.616

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.5			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		112.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628005

Sample Date/Time: Saturday, January 30, 2010 18:34:55

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628005.246

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	23.802	ug/L	6.027	17618	0.020
Be	9	2.500	ug/L	3.308	735	0.001
B	11	2.266	ug/L	11.590	1164	0.001
Na	23	1281.310	ug/L	8.568	3282841	3.758
Mg	24	1551.324	ug/L	10.212	2721431	3.128
Al	27	10211.399	ug/L	5.545	26670789	30.661
P	31	180.979	ug/L	1.104	44589	0.041
K	39	1467.118	ug/L	6.772	5262867	5.434
Ca	43	960.883	ug/L	1.530	9382	0.010
> Sc	45		ug/L		869058	869058.158
V	51	6.456	ug/L	6.719	47995	0.036
Cr	52	2.717	ug/L	0.486	20755	0.013
Cr	53		ug/L		71772	-0.102
Mn	55	598.024	ug/L	0.499	3593078	4.133
Fe	57	14190.790	ug/L	0.358	1686687	1.934
Co	59	1.567	ug/L	0.909	7380	0.008
Ni	60	4.092	ug/L	0.837	4115	0.005
Cu	63		ug/L		19215	0.022
Cu	65	8.721	ug/L	0.240	9744	0.011
Zn	66	124.712	ug/L	0.779	78532	0.358
Zn	67		ug/L		19321	0.020
Zn	68		ug/L		57851	0.260
> Ge	74		ug/L		218192	218191.899
As	75	2.206	ug/L	12.162	1854	0.008
Se	77		ug/L		2807	-0.021
Se	82	0.620	ug/L	13.754	33	0.000
Kr	83		ug/L		149	0.000
Sr	88	9.013	ug/L	1.548	74467	0.550
Y	89		ug/L		770782	5.706
Ag	107	0.147	ug/L	0.351	608	0.004
Cd	111	0.890	ug/L	6.591	836	0.006
Cd	114		ug/L		466	0.003
> In	115		ug/L		135086	135085.969
Sn	120	2.302	ug/L	1.578	8755	0.062
Sb	121	-0.007	ug/L	112.676	498	-0.000
Sb	123		ug/L		379	-0.000
Ba	135		ug/L		32820	0.171
Ba	137	36.122	ug/L	1.883	57442	0.299
Ho	165		ug/L		41911	0.218
> Lu	175		ug/L		192209	192209.003
Tl	205	0.045	ug/L	21.205	1176	0.002
Pb	208	17.866	ug/L	0.469	216200	1.123
Bi	209		ug/L		581	0.003
U	238	2.455	ug/L	0.785	30887	0.160

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.8			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		106.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		117.7			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 18:40:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 6.247

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.775	ug/L	4.324	32105	0.044
Be	9	55.534	ug/L	1.587	13387	0.018
B	11	105.387	ug/L	1.095	24111	0.032
Na	23	5681.513	ug/L	0.818	12168429	16.662
Mg	24	5993.879	ug/L	6.369	8824109	12.087
Al	27	5474.131	ug/L	3.848	11996430	16.437
P	31	5175.879	ug/L	1.239	865994	1.177
K	39	5169.666	ug/L	6.823	14428534	19.147
Ca	43	5078.817	ug/L	1.085	38408	0.052
Sc	45		ug/L		729529	729529.089
V	51	47.155	ug/L	3.045	203664	0.260
Cr	52	47.650	ug/L	1.294	173072	0.226
Cr	53		ug/L		109427	-0.034
Mn	55	49.485	ug/L	1.257	250762	0.342
Fe	57	4915.425	ug/L	1.691	493625	0.670
Co	59	48.084	ug/L	1.741	185649	0.254
Ni	60	48.670	ug/L	0.928	40140	0.055
Cu	63		ug/L		91088	0.125
Cu	65	47.914	ug/L	0.929	44445	0.061
Zn	66	54.446	ug/L	0.690	30829	0.156
Zn	67		ug/L		13304	0.000
Zn	68		ug/L		23144	0.114
Ge	74		ug/L		195107	195107.065
As	75	48.096	ug/L	0.937	33125	0.169
Se	77		ug/L		6515	-0.000
Se	82	49.887	ug/L	2.768	3029	0.016
Kr	83		ug/L		65	-0.000
Sr	88	51.628	ug/L	0.465	360448	3.149
Y	89		ug/L		145	0.001
Ag	107	50.232	ug/L	1.501	155784	1.361
Cd	111	49.833	ug/L	1.613	38595	0.337
Cd	114		ug/L		89343	0.781
In	115		ug/L		114397	114396.758
Sn	120	49.761	ug/L	1.115	153434	1.338
Sb	121	49.777	ug/L	3.731	134699	1.174
Sb	123		ug/L		103621	0.903
Ba	135		ug/L		35549	0.235
Ba	137	50.445	ug/L	0.948	63000	0.417
Ho	165		ug/L		33	0.000
Lu	175		ug/L		150994	150993.973
Tl	205	46.997	ug/L	2.866	260575	1.722
Pb	208	50.144	ug/L	1.340	476067	3.151
Bi	209		ug/L		121	0.001
U	238	51.297	ug/L	1.211	504137	3.338

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	103.550				
Be	9	111.068				
B	11	105.387				
Na	23	113.630				
Mg	24	119.878				
Al	27	108.399				
P	31	103.518				
K	39	103.393				
Ca	43	101.576				
> Sc	45		98.0			
V	51	94.311				
Cr	52	95.300				
Cr	53					
Mn	55	98.970				
Fe	57	98.308				
Co	59	96.167				
Ni	60	97.340				
Cu	63					
Cu	65	95.827				
Zn	66	108.892				
Zn	67					
Zn	68					
> Ge	74		94.9			
As	75	96.191				
Se	77					
Se	82	99.774				
Kr	83					
Sr	88	103.256				
Y	89					
Ag	107	100.464				
Cd	111	99.666				
Cd	114					
> In	115		92.1			
Sn	120	99.522				
Sb	121	99.555				
Sb	123					
Ba	135					
Ba	137	100.889				
Ho	165					
> Lu	175		92.5			
Tl	205	93.993				
Pb	208	100.289				
Bi	209					
U	238	102.593				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 18:46:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 7.248

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.002	ug/L	474.322	92	0.000
Be	9	-0.015	ug/L	79.728	13	-0.000
B	11	1.401	ug/L	40.980	885	0.000
Na	23	2.173	ug/L	55.003	19680	0.006
Mg	24	-0.094	ug/L	1319.486	5001	-0.000
Al	27	1.495	ug/L	58.345	10337	0.004
P	31	-2.473	ug/L	13.352	7912	-0.001
K	39	-6.924	ug/L	147.715	495115	-0.026
Ca	43	-27.211	ug/L	18.202	623	-0.000
Sc	45		ug/L		824504	824503.944
V	51	0.117	ug/L	791.207	16723	0.001
Cr	52	-0.638	ug/L	12.505	6553	-0.003
Cr	53		ug/L		131101	-0.025
Mn	55	0.001	ug/L	806.625	1455	0.000
Fe	57	-3.771	ug/L	38.862	5112	-0.001
Co	59	0.000	ug/L	6813.092	168	0.000
Ni	60	-0.005	ug/L	211.658	93	-0.000
Cu	63		ug/L		164	0.000
Cu	65	-0.013	ug/L	72.335	111	-0.000
Zn	66	0.001	ug/L	2046.266	340	0.000
Zn	67		ug/L		13635	-0.005
Zn	68		ug/L		1033	-0.000
Ge	74		ug/L		214708	214707.590
As	75	-0.119	ug/L	262.137	70	-0.000
Se	77		ug/L		6597	-0.003
Se	82	0.045	ug/L	422.656	-6	0.000
Kr	83		ug/L		74	0.000
Sr	88	-0.000	ug/L	756.919	184	-0.000
Y	89		ug/L		56	0.000
Ag	107	0.003	ug/L	17.609	77	0.000
Cd	111	0.003	ug/L	310.728	23	0.000
Cd	114		ug/L		51	0.000
In	115		ug/L		127206	127205.507
Sn	120	0.207	ug/L	31.665	1077	0.006
Sb	121	0.520	ug/L	39.178	2046	0.012
Sb	123		ug/L		1560	0.009
Ba	135		ug/L		26	-0.000
Ba	137	0.003	ug/L	114.517	43	0.000
Ho	165		ug/L		16	-0.000
Lu	175		ug/L		167106	167106.369
Tl	205	0.296	ug/L	26.875	2559	0.011
Pb	208	0.004	ug/L	71.730	412	0.000
Bi	209		ug/L		24	-0.000
U	238	0.044	ug/L	45.805	632	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		110.8			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		102.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.4			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628006

Sample Date/Time: Saturday, January 30, 2010 18:52:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628006.249

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.226	ug/L	2.605	35072	0.040
Be	9	3.505	ug/L	2.022	1029	0.001
B	11	16.173	ug/L	3.055	4907	0.005
Na	23	718.322	ug/L	3.362	1855610	2.107
Mg	24	7861.633	ug/L	4.534	13853653	15.853
Al	27	58962.687	ug/L	2.207	154659016	177.044
P	31	337.824	ug/L	1.523	75963	0.077
K	39	5923.109	ug/L	1.635	19711112	21.938
Ca	43	8472.240	ug/L	0.332	76113	0.086
Sc	45		ug/L		873460	873459.556
V	51	50.207	ug/L	2.268	258486	0.276
Cr	52	49.317	ug/L	1.743	214113	0.234
Cr	53		ug/L		95201	-0.075
Mn	55	365.675	ug/L	1.008	2208715	2.527
Fe	57	24281.080	ug/L	1.291	2896256	3.309
Co	59	10.389	ug/L	1.106	48164	0.055
Ni	60	31.623	ug/L	1.708	31259	0.036
Cu	63		ug/L		39521	0.045
Cu	65	17.592	ug/L	1.171	19620	0.022
Zn	66	91.867	ug/L	1.289	57175	0.264
Zn	67		ug/L		17719	0.014
Zn	68		ug/L		45794	0.208
Ge	74		ug/L		215322	215321.737
As	75	8.123	ug/L	1.628	6306	0.029
Se	77		ug/L		2971	-0.020
Se	82	-0.721	ug/L	23.415	-58	-0.000
Kr	83		ug/L		238	0.001
Sr	88	68.884	ug/L	0.963	563249	4.202
Y	89		ug/L		521488	3.892
Ag	107	0.591	ug/L	5.848	2215	0.016
Cd	111	1.678	ug/L	8.264	1543	0.011
Cd	114		ug/L		387	0.003
In	115		ug/L		133996	133995.842
Sn	120	1.360	ug/L	2.564	5291	0.037
Sb	121	0.203	ug/L	10.539	1157	0.005
Sb	123		ug/L		936	0.004
Ba	135		ug/L		243971	1.336
Ba	137	283.145	ug/L	0.792	427592	2.341
Ho	165		ug/L		29051	0.159
Lu	175		ug/L		182659	182658.823
Tl	205	0.559	ug/L	3.585	4558	0.020
Pb	208	28.339	ug/L	0.515	325664	1.781
Bi	209		ug/L		11631	0.064
U	238	5.321	ug/L	0.757	63415	0.346

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Ti	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.4			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		107.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		111.9			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
	Al	27 Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 244628007

Sample Date/Time: Saturday, January 30, 2010 18:58:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628007.250

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	26.158	ug/L	2.955	19624	0.022
Be	9	2.187	ug/L	1.242	654	0.001
B	11	6.837	ug/L	4.534	2419	0.002
Na	23	728.409	ug/L	3.619	1896608	2.136
Mg	24	3329.708	ug/L	2.978	5918428	6.715
Al	27	30977.494	ug/L	6.702	81906152	93.014
P	31	100.262	ug/L	0.676	29022	0.023
K	39	3140.306	ug/L	5.671	10794298	11.631
Ca	43	2686.724	ug/L	2.052	24954	0.027
> Sc	45		ug/L		880571	880570.723
V	51	24.812	ug/L	0.575	137565	0.137
Cr	52	18.116	ug/L	0.714	85421	0.086
Cr	53		ug/L		76655	-0.097
Mn	55	423.097	ug/L	0.657	2576313	2.924
Fe	57	14258.988	ug/L	0.907	1717252	1.943
Co	59	8.274	ug/L	0.172	38710	0.044
Ni	60	15.799	ug/L	0.345	15799	0.018
Cu	63		ug/L		24111	0.027
Cu	65	10.587	ug/L	0.739	11957	0.013
Zn	66	62.078	ug/L	1.082	38965	0.178
Zn	67		ug/L		13685	-0.005
Zn	68		ug/L		29862	0.133
> Ge	74		ug/L		216545	216544.734
As	75	6.001	ug/L	4.449	4729	0.021
Se	77		ug/L		2730	-0.021
Se	82	-0.234	ug/L	81.577	-25	-0.000
Kr	83		ug/L		169	0.000
Sr	88	24.061	ug/L	0.731	198706	1.468
Y	89		ug/L		535398	3.958
Ag	107	0.271	ug/L	11.017	1065	0.007
Cd	111	0.989	ug/L	8.505	927	0.007
Cd	114		ug/L		179	0.001
> In	115		ug/L		135248	135248.286
Sn	120	1.731	ug/L	1.421	6690	0.047
Sb	121	0.091	ug/L	2.087	812	0.002
Sb	123		ug/L		614	0.002
Ba	135		ug/L		104725	0.571
Ba	137	121.435	ug/L	0.979	184101	1.004
Ho	165		ug/L		29549	0.161
> Lu	175		ug/L		183356	183355.748
Tl	205	0.323	ug/L	3.851	2990	0.012
Pb	208	18.107	ug/L	1.293	209002	1.138
Bi	209		ug/L		6188	0.034
U	238	2.340	ug/L	1.610	28090	0.152

Sample ID: 244628007

Report Date/Time: Saturday, January 30, 2010 19:01:02

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		118.3			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		112.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628008

Sample Date/Time: Saturday, January 30, 2010 19:04:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628008.251

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	43.026	ug/L	3.541	32017	0.036
Be	9	3.432	ug/L	9.050	1010	0.001
B	11	18.076	ug/L	3.648	5428	0.006
Na	23	1813.393	ug/L	1.539	4669367	5.318
Mg	24	6907.600	ug/L	0.320	12195397	13.930
Al	27	49307.319	ug/L	7.067	129566380	148.052
P	31	209.237	ug/L	0.712	50527	0.048
K	39	4800.167	ug/L	6.596	16106443	17.778
Ca	43	7131.865	ug/L	0.533	64334	0.072
> Sc	45		ug/L		875108	875107.792
V	51	46.562	ug/L	1.483	241457	0.256
Cr	52	23.916	ug/L	0.921	108990	0.114
Cr	53		ug/L		78879	-0.094
Mn	55	269.165	ug/L	1.767	1629362	1.860
Fe	57	20368.776	ug/L	1.038	2435351	2.776
Co	59	8.552	ug/L	0.743	39756	0.045
Ni	60	29.468	ug/L	0.782	29195	0.033
Cu	63		ug/L		40519	0.046
Cu	65	17.877	ug/L	0.484	19975	0.023
Zn	66	103.874	ug/L	0.865	64780	0.298
Zn	67		ug/L		18170	0.016
Zn	68		ug/L		50601	0.230
> Ge	74		ug/L		215914	215914.301
As	75	8.646	ug/L	3.426	6720	0.030
Se	77		ug/L		2827	-0.021
Se	82	-0.607	ug/L	28.430	-50	-0.000
Kr	83		ug/L		217	0.001
Sr	88	56.938	ug/L	0.362	463840	3.473
Y	89		ug/L		612655	4.589
Ag	107	0.442	ug/L	3.332	1668	0.012
Cd	111	1.539	ug/L	5.345	1412	0.010
Cd	114		ug/L		293	0.002
> In	115		ug/L		133488	133488.019
Sn	120	4.099	ug/L	0.277	15102	0.110
Sb	121	0.160	ug/L	4.531	1019	0.004
Sb	123		ug/L		809	0.003
Ba	135		ug/L		215905	1.181
Ba	137	248.811	ug/L	1.501	376034	2.057
Ho	165		ug/L		34592	0.189
> Lu	175		ug/L		182815	182814.556
Tl	205	0.418	ug/L	0.523	3616	0.015
Pb	208	27.901	ug/L	1.205	320887	1.753
Bi	209		ug/L		9236	0.050
U	238	3.406	ug/L	1.201	40687	0.222

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.6			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		107.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		112.0			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628009

Sample Date/Time: Saturday, January 30, 2010 19:10:21

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628009.252

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	31.199	ug/L	4.064	23079	0.026
Be	9	4.001	ug/L	5.083	1165	0.001
B	11	9.921	ug/L	7.536	3209	0.003
Na	23	568.807	ug/L	2.645	1465190	1.668
Mg	24	5600.360	ug/L	11.338	9810099	11.293
Al	27	33817.864	ug/L	7.418	88218765	101.543
P	31	215.665	ug/L	2.427	51442	0.049
K	39	3693.119	ug/L	3.457	12435248	13.678
Ca	43	4550.135	ug/L	2.262	41090	0.046
Sc	45		ug/L		869141	869141.316
V	51	30.771	ug/L	2.673	164239	0.169
Cr	52	18.939	ug/L	1.856	87693	0.090
Cr	53		ug/L		76330	-0.096
Mn	55	543.299	ug/L	0.943	3264549	3.755
Fe	57	22748.514	ug/L	0.395	2700580	3.101
Co	59	4.465	ug/L	1.743	20695	0.024
Ni	60	15.497	ug/L	1.870	15295	0.017
Cu	63		ug/L		39743	0.046
Cu	65	17.787	ug/L	2.299	19735	0.023
Zn	66	153.696	ug/L	1.600	94719	0.442
Zn	67		ug/L		22129	0.035
Zn	68		ug/L		70557	0.325
Ge	74		ug/L		213759	213759.446
As	75	5.337	ug/L	3.853	4168	0.019
Se	77		ug/L		2752	-0.021
Se	82	-0.145	ug/L	306.478	-19	-0.000
Kr	83		ug/L		195	0.001
Sr	88	33.487	ug/L	3.216	271266	2.043
Y	89		ug/L		748420	5.640
Ag	107	0.426	ug/L	5.549	1600	0.012
Cd	111	1.465	ug/L	8.386	1336	0.010
Cd	114		ug/L		548	0.004
In	115		ug/L		132778	132778.401
Sn	120	1.366	ug/L	3.511	5261	0.037
Sb	121	0.102	ug/L	1.471	831	0.002
Sb	123		ug/L		634	0.002
Ba	135		ug/L		104305	0.550
Ba	137	115.557	ug/L	2.211	181194	0.955
Ho	165		ug/L		39130	0.206
Lu	175		ug/L		189684	189683.907
Tl	205	0.178	ug/L	4.123	2082	0.007
Pb	208	23.478	ug/L	1.832	280185	1.475
Bi	209		ug/L		2481	0.013
U	238	3.617	ug/L	0.635	44819	0.235

Sample ID: 244628009

Report Date/Time: Saturday, January 30, 2010 19:12:51

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.8			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		106.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		116.2			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628010

Sample Date/Time: Saturday, January 30, 2010 19:16:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2][rm]

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628010.253

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.575	ug/L	3.366	38351	0.044
Be	9	4.228	ug/L	4.110	1239	0.001
B	11	24.387	ug/L	4.467	7125	0.007
Na	23	537.186	ug/L	0.844	1393840	1.575
Mg	24	8588.779	ug/L	2.173	15160836	17.320
Al	27	61440.248	ug/L	3.381	161445075	184.483
P	31	631.107	ug/L	0.400	134459	0.144
K	39	6691.444	ug/L	4.289	22234135	24.783
Ca	43	14170.368	ug/L	0.904	126922	0.144
Sc	45		ug/L		875014	875013.522
V	51	57.394	ug/L	1.475	293590	0.316
Cr	52	30.881	ug/L	1.719	137915	0.147
Cr	53		ug/L		81727	-0.091
Mn	55	534.569	ug/L	0.984	3234064	3.694
Fe	57	24714.161	ug/L	0.797	2953265	3.368
Co	59	10.194	ug/L	0.473	47351	0.054
Ni	60	23.942	ug/L	1.664	23736	0.027
Cu	63		ug/L		53641	0.061
Cu	65	24.023	ug/L	1.208	26794	0.030
Zn	66	114.708	ug/L	0.533	70880	0.330
Zn	67		ug/L		19767	0.024
Zn	68		ug/L		55581	0.255
Ge	74		ug/L		214034	214034.248
As	75	9.102	ug/L	6.478	7006	0.032
Se	77		ug/L		3029	-0.020
Se	82	-0.267	ug/L	148.912	-27	-0.000
Kr	83		ug/L		211	0.001
Sr	88	110.114	ug/L	1.722	883475	6.717
Y	89		ug/L		535272	4.070
Ag	107	0.602	ug/L	10.990	2213	0.016
Cd	111	1.967	ug/L	11.012	1771	0.013
Cd	114		ug/L		900	0.007
In	115		ug/L		131512	131512.022
Sn	120	1.068	ug/L	1.820	4158	0.029
Sb	121	0.180	ug/L	9.967	1064	0.004
Sb	123		ug/L		862	0.004
Ba	135		ug/L		299951	1.644
Ba	137	345.320	ug/L	0.455	520962	2.855
Ho	165		ug/L		28927	0.158
Lu	175		ug/L		182476	182475.835
Tl	205	0.501	ug/L	4.762	4163	0.018
Pb	208	42.110	ug/L	0.351	483239	2.646
Bi	209		ug/L		12983	0.071
U	238	15.618	ug/L	1.515	185612	1.016

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dilution	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.6			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		105.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		111.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
	Al	27 Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 244628011

Sample Date/Time: Saturday, January 30, 2010 19:22:09

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628011.254

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	25.054	ug/L	2.534	18351	0.021
Be	9	2.375	ug/L	5.646	692	0.001
B	11	6.097	ug/L	8.957	2165	0.002
Na	23	572.179	ug/L	5.414	1457110	1.678
Mg	24	2758.637	ug/L	6.838	4785536	5.563
Al	27	17787.857	ug/L	6.515	45924259	53.411
P	31	215.515	ug/L	2.305	50860	0.049
K	39	2517.890	ug/L	6.097	8552159	9.326
Ca	43	2982.013	ug/L	0.335	26944	0.030
Sc	45		ug/L		859774	859773.662
V	51	18.595	ug/L	4.774	104859	0.102
Cr	52	7.781	ug/L	2.032	41207	0.037
Cr	53		ug/L		70554	-0.102
Mn	55	521.078	ug/L	1.078	3097361	3.601
Fe	57	14803.996	ug/L	1.249	1740395	2.018
Co	59	3.806	ug/L	2.438	17477	0.020
Ni	60	7.852	ug/L	1.349	7718	0.009
Cu	63		ug/L		22435	0.026
Cu	65	10.216	ug/L	1.700	11270	0.013
Zn	66	104.239	ug/L	1.062	64746	0.300
Zn	67		ug/L		17307	0.012
Zn	68		ug/L		47712	0.217
Ge	74		ug/L		215044	215044.307
As	75	4.167	ug/L	9.284	3307	0.015
Se	77		ug/L		2664	-0.021
Se	82	0.194	ug/L	112.774	4	0.000
Kr	83		ug/L		152	0.000
Sr	88	21.370	ug/L	0.573	176089	1.304
Y	89		ug/L		660186	4.893
Ag	107	0.170	ug/L	5.748	692	0.005
Cd	111	0.853	ug/L	7.330	801	0.006
Cd	114		ug/L		486	0.003
In	115		ug/L		134925	134925.422
Sn	120	1.935	ug/L	1.663	7413	0.052
Sb	121	0.035	ug/L	33.989	632	0.001
Sb	123		ug/L		510	0.001
Ba	135		ug/L		90398	0.479
Ba	137	101.472	ug/L	1.116	158142	0.839
Ho	165		ug/L		35858	0.190
Lu	175		ug/L		188473	188472.686
Tl	205	0.127	ug/L	7.576	1719	0.005
Pb	208	19.728	ug/L	1.304	234041	1.240
Bi	209		ug/L		2505	0.013
U	238	3.708	ug/L	1.372	45649	0.241

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.5			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		115.4			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628012

Sample Date/Time: Saturday, January 30, 2010 19:28:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628012.255

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	22.527	ug/L	4.948	16790	0.019
Be	9	2.757	ug/L	2.592	814	0.001
B	11	9.182	ug/L	1.910	3032	0.003
Na	23	735.971	ug/L	2.599	1902437	2.158
Mg	24	2714.793	ug/L	2.475	4793005	5.475
Al	27	15080.841	ug/L	8.067	39611646	45.282
P	31	502.900	ug/L	0.833	108878	0.114
K	39	2595.319	ug/L	3.526	8951309	9.612
Ca	43	7215.130	ug/L	1.686	65020	0.073
Sc	45		ug/L		874471	874471.479
V	51	14.874	ug/L	1.987	88774	0.082
Cr	52	5.418	ug/L	0.772	32102	0.026
Cr	53		ug/L		69659	-0.105
Mn	55	705.552	ug/L	0.481	4265443	4.876
Fe	57	14032.504	ug/L	0.369	1678366	1.913
Co	59	3.121	ug/L	0.404	14613	0.017
Ni	60	6.917	ug/L	1.616	6928	0.008
Cu	63		ug/L		36206	0.041
Cu	65	16.068	ug/L	1.273	17952	0.020
Zn	66	131.270	ug/L	0.810	83339	0.377
Zn	67		ug/L		20031	0.023
Zn	68		ug/L		62435	0.279
Ge	74		ug/L		220035	220035.494
As	75	3.557	ug/L	3.297	2914	0.013
Se	77		ug/L		2854	-0.021
Se	82	0.350	ug/L	59.513	14	0.000
Kr	83		ug/L		139	0.000
Sr	88	40.480	ug/L	1.217	339124	2.469
Y	89		ug/L		633799	4.617
Ag	107	0.344	ug/L	9.431	1351	0.009
Cd	111	1.421	ug/L	6.198	1343	0.010
Cd	114		ug/L		897	0.006
In	115		ug/L		137252	137252.190
Sn	120	1.691	ug/L	2.086	6640	0.045
Sb	121	0.070	ug/L	23.448	756	0.002
Sb	123		ug/L		598	0.002
Ba	135		ug/L		104744	0.544
Ba	137	114.881	ug/L	1.201	182930	0.950
Ho	165		ug/L		34809	0.181
Lu	175		ug/L		192582	192582.368
Tl	205	0.077	ug/L	6.010	1405	0.003
Pb	208	27.035	ug/L	0.833	327557	1.699
Bi	209		ug/L		2459	0.013
U	238	6.493	ug/L	0.808	81550	0.423

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.5			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		107.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		110.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		118.0			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628013

Sample Date/Time: Saturday, January 30, 2010 19:33:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 nohrs thtlimozr.mth

Dataset File: c:\elandata\dataset\100129\244628013.256

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	33.871	ug/L	4.941	24766	0.029
Be	9	2.635	ug/L	6.509	765	0.001
B	11	8.012	ug/L	3.300	2670	0.002
Na	23	541.244	ug/L	7.423	1379049	1.587
Mg	24	3839.765	ug/L	5.234	6657920	7.743
Al	27	25445.101	ug/L	4.194	65651174	76.403
P	31	253.612	ug/L	1.990	58279	0.058
K	39	3477.357	ug/L	6.740	11604917	12.879
Ca	43	3867.359	ug/L	1.521	34659	0.039
> Sc	45		ug/L		859241	859241.415
V	51	23.132	ug/L	2.256	126286	0.127
Cr	52	12.474	ug/L	0.222	60332	0.059
Cr	53		ug/L		71097	-0.102
Mn	55	612.842	ug/L	0.829	3640637	4.235
Fe	57	15271.157	ug/L	0.646	1794204	2.081
Co	59	5.312	ug/L	2.006	24314	0.028
Ni	60	11.300	ug/L	0.900	11056	0.013
Cu	63		ug/L		33937	0.039
Cu	65	15.424	ug/L	1.258	16940	0.020
Zn	66	113.709	ug/L	0.818	70638	0.327
Zn	67		ug/L		18262	0.017
Zn	68		ug/L		53110	0.242
> Ge	74		ug/L		215176	215175.946
As	75	4.668	ug/L	2.111	3689	0.016
Se	77		ug/L		2635	-0.022
Se	82	-0.179	ug/L	120.382	-21	-0.000
Kr	83		ug/L		160	0.000
Sr	88	31.488	ug/L	0.229	255660	1.921
Y	89		ug/L		549736	4.133
Ag	107	0.202	ug/L	4.609	796	0.005
Cd	111	0.998	ug/L	3.487	920	0.007
Cd	114		ug/L		892	0.006
> In	115		ug/L		132994	132994.138
Sn	120	1.611	ug/L	1.878	6146	0.043
Sb	121	0.121	ug/L	5.195	891	0.003
Sb	123		ug/L		675	0.002
Ba	135		ug/L		132225	0.713
Ba	137	151.124	ug/L	0.506	231550	1.249
Ho	165		ug/L		29461	0.159
> Lu	175		ug/L		185306	185305.604
Tl	205	0.157	ug/L	0.965	1894	0.006
Pb	208	30.058	ug/L	0.868	350410	1.889
Bi	209		ug/L		4128	0.022
U	238	21.575	ug/L	0.428	260331	1.404

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.5			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		107.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		113.5			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 19:39:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 6.257

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.850	ug/L	3.830	33457	0.045
Be	9	56.437	ug/L	3.393	13891	0.019
B	11	108.470	ug/L	4.967	25324	0.033
Na	23	5880.926	ug/L	8.155	12855535	17.247
Mg	24	6201.675	ug/L	3.133	9322084	12.506
Al	27	5669.431	ug/L	5.083	12686872	17.023
P	31	5155.375	ug/L	1.157	881050	1.172
K	39	4827.677	ug/L	5.371	13787923	17.880
Ca	43	5071.881	ug/L	0.543	39184	0.052
> Sc	45		ug/L		745194	745193.625
V	51	47.063	ug/L	1.083	207659	0.259
Cr	52	47.912	ug/L	1.868	177690	0.228
Cr	53		ug/L		105795	-0.042
Mn	55	49.319	ug/L	1.036	255280	0.341
Fe	57	4897.755	ug/L	1.082	502432	0.668
Co	59	47.362	ug/L	0.688	186800	0.250
Ni	60	48.970	ug/L	2.563	41245	0.055
Cu	63		ug/L		93281	0.125
Cu	65	48.145	ug/L	0.194	45620	0.061
Zn	66	53.681	ug/L	1.734	31058	0.154
Zn	67		ug/L		13208	-0.002
Zn	68		ug/L		23500	0.113
> Ge	74		ug/L		199349	199348.830
As	75	47.657	ug/L	0.859	33533	0.167
Se	77		ug/L		6144	-0.003
Se	82	49.128	ug/L	2.576	3046	0.015
Kr	83		ug/L		77	0.000
Sr	88	50.921	ug/L	1.599	363846	3.106
Y	89		ug/L		137	0.001
Ag	107	49.696	ug/L	0.615	157725	1.347
Cd	111	49.088	ug/L	1.447	38910	0.332
Cd	114		ug/L		91268	0.779
> In	115		ug/L		117076	117076.034
Sn	120	49.065	ug/L	1.373	154838	1.320
Sb	121	49.573	ug/L	4.701	137283	1.169
Sb	123		ug/L		105572	0.899
Ba	135		ug/L		35830	0.231
Ba	137	49.239	ug/L	0.295	63021	0.407
Ho	165		ug/L		33	0.000
> Lu	175		ug/L		154733	154732.676
Tl	205	46.411	ug/L	2.893	263745	1.700
Pb	208	49.421	ug/L	0.768	480850	3.105
Bi	209		ug/L		121	0.001
U	238	50.870	ug/L	0.593	512351	3.310

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Di	Duplicate	Rel. % Difference
Li	7		105.699								
Be	9		112.875								
B	11		108.470								
Na	23		117.619								
Mg	24		124.034								
Al	27		112.266								
P	31		103.107								
K	39		96.554								
Ca	43		101.438								
> Sc	45					100.1					
V	51		94.126								
Cr	52		95.824								
Cr	53										
Mn	55		98.639								
Fe	57		97.955								
Co	59		94.725								
Ni	60		97.940								
Cu	63										
Cu	65		96.289								
Zn	66		107.362								
Zn	67										
Zn	68										
> Ge	74					97.0					
As	75		95.314								
Se	77										
Se	82		98.256								
Kr	83										
Sr	88		101.843								
Y	89										
Ag	107		99.392								
Cd	111		98.176								
Cd	114										
> In	115					94.2					
Sn	120		98.131								
Sb	121		99.146								
Sb	123										
Ba	135										
Ba	137		98.478								
Ho	165										
> Lu	175					94.8					
Tl	205		92.821								
Pb	208		98.843								
Bi	209										
U	238		101.740								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	24CCV is out of limits (+/- 10%)
QC Std 6	Al	27	27CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 19:45:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 7.258

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.023	ug/L	35.752	107	0.000
Be	9	-0.021	ug/L	55.180	12	-0.000
B	11	1.390	ug/L	43.620	888	0.000
Na	23	2.425	ug/L	96.887	20349	0.007
Mg	24	0.480	ug/L	126.686	6001	0.001
Al	27	1.073	ug/L	117.420	9337	0.003
P	31	-3.235	ug/L	55.835	7811	-0.001
K	39	-9.362	ug/L	113.949	490642	-0.035
Ca	43	-24.884	ug/L	25.498	646	-0.000
> Sc	45		ug/L		829100	829099.793
V	51	-0.537	ug/L	204.993	13876	-0.003
Cr	52	-0.427	ug/L	3.396	7423	-0.002
Cr	53		ug/L		124283	-0.034
Mn	55	-0.008	ug/L	83.019	1415	-0.000
Fe	57	-5.586	ug/L	39.796	4935	-0.001
Co	59	-0.002	ug/L	115.624	158	-0.000
Ni	60	-0.003	ug/L	448.047	96	-0.000
Cu	63		ug/L		159	0.000
Cu	65	-0.021	ug/L	51.163	104	-0.000
Zn	66	-0.017	ug/L	252.083	329	-0.000
Zn	67		ug/L		13382	-0.006
Zn	68		ug/L		960	-0.000
> Ge	74		ug/L		214802	214802.343
As	75	0.161	ug/L	138.734	281	0.001
Se	77		ug/L		6053	-0.006
Se	82	0.071	ug/L	84.041	-5	0.000
Kr	83		ug/L		65	-0.000
Sr	88	0.002	ug/L	51.342	205	0.000
Y	89		ug/L		56	0.000
Ag	107	-0.000	ug/L	1379.522	67	-0.000
Cd	111	0.000	ug/L	2755.419	22	0.000
Cd	114		ug/L		37	0.000
> In	115		ug/L		128302	128301.594
Sn	120	0.211	ug/L	36.543	1100	0.006
Sb	121	0.519	ug/L	36.510	2065	0.012
Sb	123		ug/L		1582	0.009
Ba	135		ug/L		32	0.000
Ba	137	0.001	ug/L	278.678	41	0.000
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		167815	167814.926
Tl	205	0.252	ug/L	29.889	2302	0.009
Pb	208	0.004	ug/L	51.740	410	0.000
Bi	209		ug/L		26	-0.000
U	238	0.046	ug/L	47.828	651	0.003

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		111.4			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		103.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628014

Sample Date/Time: Saturday, January 30, 2010 19:51:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628014.259

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.694	ug/L	2.097	36161	0.041
Be	9	4.537	ug/L	0.695	1327	0.001
B	11	3.119	ug/L	4.903	1401	0.001
Na	23	738.932	ug/L	4.043	1908628	2.167
Mg	24	2608.564	ug/L	2.453	4601285	5.260
Al	27	14015.134	ug/L	5.038	36770970	42.082
P	31	198.861	ug/L	0.636	48382	0.045
K	39	2125.867	ug/L	5.337	7426162	7.874
Ca	43	1652.031	ug/L	0.873	15570	0.017
> Sc	45		ug/L		873663	873662.914
V	51	13.926	ug/L	5.349	84147	0.077
Cr	52	9.768	ug/L	0.534	50116	0.046
Cr	53		ug/L		76377	-0.097
Mn	55	817.631	ug/L	0.667	4938178	5.651
Fe	57	19204.282	ug/L	0.326	2292663	2.617
Co	59	2.211	ug/L	0.647	10394	0.012
Ni	60	7.534	ug/L	1.995	7529	0.008
Cu	63		ug/L		27184	0.031
Cu	65	12.139	ug/L	0.994	13585	0.015
Zn	66	155.760	ug/L	0.909	98715	0.448
Zn	67		ug/L		23026	0.037
Zn	68		ug/L		72270	0.324
> Ge	74		ug/L		219811	219810.791
As	75	5.259	ug/L	5.579	4224	0.018
Se	77		ug/L		2910	-0.021
Se	82	0.740	ug/L	24.388	41	0.000
Kr	83		ug/L		165	0.000
Sr	88	12.914	ug/L	0.401	108175	0.788
Y	89		ug/L		964957	7.040
Ag	107	0.228	ug/L	4.929	921	0.006
Cd	111	1.142	ug/L	3.714	1082	0.008
Cd	114		ug/L		515	0.003
> In	115		ug/L		137059	137059.451
Sn	120	2.518	ug/L	1.271	9677	0.068
Sb	121	0.134	ug/L	13.495	962	0.003
Sb	123		ug/L		736	0.003
Ba	135		ug/L		64369	0.323
Ba	137	68.516	ug/L	0.215	112923	0.566
Ho	165		ug/L		54432	0.273
> Lu	175		ug/L		199283	199282.711
Tl	205	0.173	ug/L	6.639	2149	0.006
Pb	208	20.223	ug/L	0.931	253662	1.271
Bi	209		ug/L		751	0.004
U	238	3.399	ug/L	0.546	44258	0.221

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.4			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		107.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		110.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		122.1			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Lu	175	

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 244628015

Sample Date/Time: Saturday, January 30, 2010 19:57:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2][rm]

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\244628015.260

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.385	ug/L	2.210	39392	0.044
Be	9	3.955	ug/L	1.461	1174	0.001
B	11	20.775	ug/L	1.019	6223	0.006
Na	23	569.165	ug/L	2.890	1492458	1.669
Mg	24	7972.923	ug/L	0.814	14232113	16.078
Al	27	63556.212	ug/L	7.522	168862395	190.837
P	31	540.350	ug/L	0.491	117712	0.123
K	39	6759.550	ug/L	2.072	22707201	25.035
Ca	43	12210.067	ug/L	0.524	110719	0.124
> Sc	45		ug/L		884855	884854.601
V	51	58.218	ug/L	1.294	300913	0.320
Cr	52	32.162	ug/L	1.203	144852	0.153
Cr	53		ug/L		83983	-0.089
Mn	55	605.665	ug/L	0.529	3705266	4.186
Fe	57	25296.113	ug/L	0.372	3056727	3.448
Co	59	12.296	ug/L	0.528	57718	0.065
Ni	60	24.642	ug/L	0.625	24703	0.028
Cu	63		ug/L		56888	0.064
Cu	65	24.854	ug/L	1.456	28028	0.032
Zn	66	121.240	ug/L	0.459	75080	0.348
Zn	67		ug/L		20598	0.028
Zn	68		ug/L		59486	0.272
> Ge	74		ug/L		214559	214559.406
As	75	9.003	ug/L	2.079	6947	0.032
Se	77		ug/L		2943	-0.020
Se	82	-0.853	ug/L	33.811	-66	-0.000
Kr	83		ug/L		237	0.001
Sr	88	99.670	ug/L	1.206	808855	6.080
Y	89		ug/L		541478	4.071
Ag	107	0.561	ug/L	9.116	2094	0.015
Cd	111	2.150	ug/L	7.961	1958	0.015
Cd	114		ug/L		851	0.006
> In	115		ug/L		133012	133011.701
Sn	120	1.230	ug/L	1.167	4787	0.033
Sb	121	0.209	ug/L	8.794	1167	0.005
Sb	123		ug/L		928	0.004
Ba	135		ug/L		300417	1.630
Ba	137	342.150	ug/L	1.797	521145	2.829
Ho	165		ug/L		29805	0.162
> Lu	175		ug/L		184237	184236.912
Tl	205	0.523	ug/L	0.528	4351	0.019
Pb	208	41.212	ug/L	0.690	477495	2.590
Bi	209		ug/L		13267	0.072
U	238	15.625	ug/L	1.138	187492	1.017

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		118.9			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		104.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		107.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		112.8			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message
 Al 27 Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 244628016

Sample Date/Time: Saturday, January 30, 2010 20:03:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\6020 noirs tht\mozr.mth

Dataset File: c:\elandata\dataset\100129\244628016.261

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	29.720	ug/L	2.983	22095	0.025
Be	9	2.658	ug/L	7.028	784	0.001
B	11	2.139	ug/L	12.876	1137	0.001
Na	23	1187.511	ug/L	4.860	3056268	3.483
Mg	24	1437.761	ug/L	3.978	2537180	2.899
Al	27	9326.930	ug/L	1.027	24461375	28.005
P	31	230.896	ug/L	1.203	54717	0.053
K	39	1594.524	ug/L	6.167	5703903	5.906
Ca	43	1066.331	ug/L	1.448	10364	0.011
Sc	45		ug/L		873193	873193.075
V	51	7.049	ug/L	3.449	51046	0.039
Cr	52	2.979	ug/L	1.091	21940	0.014
Cr	53		ug/L		67191	-0.107
Mn	55	732.388	ug/L	0.679	4421180	5.061
Fe	57	14810.118	ug/L	1.562	1768486	2.019
Co	59	1.803	ug/L	0.850	8504	0.010
Ni	60	4.325	ug/L	1.889	4364	0.005
Cu	63		ug/L		19951	0.023
Cu	65	8.861	ug/L	0.780	9946	0.011
Zn	66	132.673	ug/L	0.794	83716	0.381
Zn	67		ug/L		19759	0.022
Zn	68		ug/L		61963	0.278
Ge	74		ug/L		218716	218716.271
As	75	2.165	ug/L	23.034	1824	0.008
Se	77		ug/L		2622	-0.022
Se	82	0.426	ug/L	96.977	20	0.000
Kr	83		ug/L		152	0.000
Sr	88	9.050	ug/L	0.394	74977	0.552
Y	89		ug/L		786727	5.808
Ag	107	0.136	ug/L	9.257	572	0.004
Cd	111	0.904	ug/L	6.353	851	0.006
Cd	114		ug/L		654	0.005
In	115		ug/L		135456	135455.520
Sn	120	2.206	ug/L	1.546	8430	0.059
Sb	121	0.015	ug/L	62.750	569	0.000
Sb	123		ug/L		423	0.000
Ba	135		ug/L		37136	0.192
Ba	137	41.307	ug/L	1.723	65918	0.341
Ho	165		ug/L		43264	0.224
Lu	175		ug/L		192925	192924.634
Tl	205	0.027	ug/L	10.301	1053	0.001
Pb	208	22.557	ug/L	0.902	273860	1.417
Bi	209		ug/L		565	0.003
U	238	2.572	ug/L	1.543	32458	0.167

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		117.3			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		106.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		109.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		118.2			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 20:09:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 6.262

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.841	ug/L	2.555	31814	0.043
Be	9	54.084	ug/L	2.198	13158	0.018
B	11	101.639	ug/L	2.285	23486	0.031
Na	23	5765.174	ug/L	0.875	12463958	16.908
Mg	24	5665.521	ug/L	11.921	8418260	11.425
Al	27	5454.975	ug/L	5.040	12063009	16.379
P	31	5072.299	ug/L	1.811	856697	1.153
K	39	4961.557	ug/L	3.687	13992426	18.376
Ca	43	5030.498	ug/L	0.381	38408	0.051
Sc	45		ug/L		736367	736367.192
V	51	47.137	ug/L	1.641	205488	0.259
Cr	52	46.843	ug/L	0.283	171877	0.222
Cr	53		ug/L		105787	-0.041
Mn	55	49.002	ug/L	0.533	250656	0.339
Fe	57	4881.739	ug/L	0.312	494894	0.665
Co	59	47.408	ug/L	0.338	184764	0.251
Ni	60	48.881	ug/L	1.404	40689	0.055
Cu	63		ug/L		91122	0.124
Cu	65	47.120	ug/L	0.582	44120	0.060
Zn	66	52.879	ug/L	0.706	30400	0.152
Zn	67		ug/L		13162	-0.002
Zn	68		ug/L		23081	0.112
Ge	74		ug/L		198024	198023.999
As	75	46.836	ug/L	1.230	32742	0.165
Se	77		ug/L		6233	-0.002
Se	82	48.611	ug/L	0.747	2995	0.015
Kr	83		ug/L		77	0.000
Sr	88	49.632	ug/L	0.443	353064	3.028
Y	89		ug/L		156	0.001
Ag	107	48.985	ug/L	0.223	154781	1.327
Cd	111	48.309	ug/L	0.524	38124	0.327
Cd	114		ug/L		89126	0.764
In	115		ug/L		116558	116558.234
Sn	120	47.890	ug/L	0.569	150464	1.288
Sb	121	48.715	ug/L	2.867	134338	1.148
Sb	123		ug/L		103540	0.885
Ba	135		ug/L		35026	0.224
Ba	137	47.829	ug/L	0.344	61862	0.395
Ho	165		ug/L		33	0.000
Lu	175		ug/L		156364	156363.657
Tl	205	45.712	ug/L	1.588	262524	1.674
Pb	208	48.162	ug/L	0.400	473544	3.026
Bi	209		ug/L		133	0.001
U	238	49.556	ug/L	1.541	504357	3.225

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	
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	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	101.683				
Be	9	108.168				
B	11	101.639				
Na	23	115.303				
Mg	24	113.310				
Al	27	108.019				
P	31	101.446				
K	39	99.231				
Ca	43	100.610				
> Sc	45		99.0			
V	51	94.274				
Cr	52	93.685				
Cr	53					
Mn	55	98.003				
Fe	57	97.635				
Co	59	94.815				
Ni	60	97.762				
Cu	63					
Cu	65	94.240				
Zn	66	105.758				
Zn	67					
Zn	68					
> Ge	74		96.4			
As	75	93.671				
Se	77					
Se	82	97.222				
Kr	83					
Sr	88	99.264				
Y	89					
Ag	107	97.970				
Cd	111	96.618				
Cd	114					
> In	115		93.8			
Sn	120	95.781				
Sb	121	97.429				
Sb	123					
Ba	135					
Ba	137	95.658				
Ho	165					
> Lu	175		95.8			
Tl	205	91.424				
Pb	208	96.324				
Bi	209					
U	238	99.112				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Na	23	CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 20:15:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: c:\elandata\dataset\100129\QC Std 7.263

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.031	ug/L	77.501	113	0.000
Be	9	-0.009	ug/L	101.343	15	-0.000
B	11	1.157	ug/L	46.211	831	0.000
Na	23	-0.632	ug/L	161.743	13006	-0.002
Mg	24	0.281	ug/L	500.549	5668	0.001
Al	27	1.185	ug/L	108.077	9670	0.004
P	31	-1.877	ug/L	111.690	8093	-0.000
K	39	-20.696	ug/L	36.978	456865	-0.077
Ca	43	-25.048	ug/L	24.588	646	-0.000
Sc	45		ug/L		831328	831328.033
V	51	-1.080	ug/L	85.517	11383	-0.006
Cr	52	-0.694	ug/L	4.102	6389	-0.003
Cr	53		ug/L		128449	-0.030
Mn	55	0.007	ug/L	202.362	1505	0.000
Fe	57	-4.295	ug/L	40.214	5096	-0.001
Co	59	-0.001	ug/L	935.577	166	-0.000
Ni	60	0.007	ug/L	271.358	106	0.000
Cu	63		ug/L		181	0.000
Cu	65	-0.015	ug/L	51.496	110	-0.000
Zn	66	-0.020	ug/L	294.270	328	-0.000
Zn	67		ug/L		13291	-0.006
Zn	68		ug/L		976	-0.000
Ge	74		ug/L		215799	215798.606
As	75	-0.323	ug/L	87.665	-86	-0.001
Se	77		ug/L		6282	-0.005
Se	82	0.019	ug/L	2004.432	-8	0.000
Kr	83		ug/L		73	0.000
Sr	88	0.004	ug/L	21.919	219	0.000
Y	89		ug/L		56	0.000
Ag	107	0.004	ug/L	125.695	80	0.000
Cd	111	0.010	ug/L	46.949	30	0.000
Cd	114		ug/L		37	0.000
In	115		ug/L		128013	128013.074
Sn	120	0.225	ug/L	33.694	1147	0.006
Sb	121	0.508	ug/L	37.692	2027	0.012
Sb	123		ug/L		1604	0.010
Ba	135		ug/L		33	0.000
Ba	137	-0.000	ug/L	2044.114	39	-0.000
Ho	165		ug/L		17	-0.000
Lu	175		ug/L		170307	170307.266
Tl	205	0.272	ug/L	31.188	2454	0.010
Pb	208	0.004	ug/L	72.862	418	0.000
Bi	209		ug/L		25	-0.000
U	238	0.042	ug/L	36.172	623	0.003

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9997
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		111.7			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		103.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		104.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, February 06, 2010 20:03:26

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100204\Sample.308

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	2034.9	2034.945	91.025	4.5
Mg	24.0	18391.8	18391.833	238.025	1.3
Co	58.9	27995.4	27995.409	408.681	1.5
Rh	102.9	48218.8	48218.843	309.348	0.6
In	114.9	52674.1	52674.140	575.064	1.1
Pb	208.0	25286.4	25286.359	46.098	0.2
[> Ba	137.9	45026.7	45026.690	304.915	0.7
[Ba++	69.0	1860.2	0.041	0.001	1.9
[> Ce	139.9	59211.5	59211.459	298.984	0.5
[CeO	155.9	1251.5	0.021	0.000	1.3
Bkgd	220.0	9.6	9.600	1.025	10.7

Current Optimization File Data

Current Value	Description
0.84	Nebulizer Gas Flow
14.00	Lens Voltage
1450.00	ICP RF Power
-1781.25	Analog Stage Voltage
900.00	Pulse Stage Voltage
40.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	14.5	3112.0
Co	59	29	15.5	28300.3
In	115	29	17.0	50940.0

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	583	2080	0.666
Be	9.0	9.1	2046	2080	0.677
Mg	24.0	24.0	5680	2120	0.662
Mg	25.0	24.9	5886	2080	0.715
Mg	26.0	26.0	6151	2120	0.678
Co	58.9	58.9	14164	2170	0.645
Rh	102.9	102.9	24862	2230	0.697
In	114.9	114.9	27778	2260	0.692
Ce	139.9	139.9	33852	2280	0.745
Pb	206.0	206.0	49948	2430	0.765
Pb	207.0	207.0	50135	2385	0.719
Pb	208.0	208.1	50463	2430	0.722
U	238.1	238.1	57736	2470	0.747

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, February 06, 2010 20:56:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\Blank.001

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	ug/L		6	
[>	Sc	45	ug/L		714052	
[>	Lu	175	ug/L		83864	
[	U	238	ug/L		20	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Simple Linear	
Lu	175Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be		9				
[>	Sc		45				
[>	Lu		175				
[U		238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, February 06, 2010 20:59:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\Standard 1.002

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000 ug/L	8.096	2559	0.003
[>	Sc	45	ug/L		752046	752046.172
[>	Lu	175	ug/L		83409	83408.629
[	U	238	10.000 ug/L	0.819	42900	0.514

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be		9				
>	Sc		45				
>	Lu		175				
[U		238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 06, 2010 21:02:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\Standard 2.003

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	100.030 ug/L	6.534	26420	0.035
[>	Sc	45	ug/L		753641	753640.754
[>	Lu	175	ug/L		81652	81652.199
[	U	238	99.986 ug/L	1.740	414072	5.072

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be		9				
[>	Sc		45				
[>	Lu		175				
[U		238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 06, 2010 21:04:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 1.004

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	48.991 ug/L	9.544	13589	0.017
[>	Sc	45	ug/L		792991	792990.930
[>	Lu	175	ug/L		83227	83227.248
[	U	238	51.885 ug/L	0.628	219055	2.632

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9	97.983				
[>	Sc	45		111.1			
[>	Lu	175		99.2			
[U	238	103.770				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, February 06, 2010 21:07:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 2.005

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.001 ug/L	158.622	6	-0.000
[>	Sc	45	ug/L		713511	713510.775
[>	Lu	175	ug/L		80330	80329.685
[	U	238	0.134 ug/L	6.831	565	0.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45			99.9		
[>	Lu	175			95.8		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 06, 2010 21:10:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 3.006

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.484 ug/L	14.827	137	0.000
[>	Sc	45	ug/L		774321	774320.943
[>	Lu	175	ug/L		82863	82863.471
[	U	238	0.242 ug/L	3.979	1036	0.012

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Be	9	96.881					
[>	Sc	45		108.4				
[>	Lu	175		98.8				
[	U	238	120.840					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, February 06, 2010 21:12:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 4.007

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.089 ug/L	5.095	29	0.000
[>	Sc	45	ug/L		726566	726565.775
[>	Lu	175	ug/L		79334	79334.490
[	U	238	0.016 ug/L	15.255	85	0.001

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9						
[>	Sc	45		101.8				
[>	Lu	175		94.6				
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, February 06, 2010 21:15:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 5.008

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	20.631 ug/L	4.929	5349	0.007
>	Sc	45	ug/L		738497	738497.366
>	Lu	175	ug/L		78492	78491.833
[	U	238	20.601 ug/L	1.494	82037	1.045

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	103.153				
[>	Sc	45		103.4			
[>	Lu	175		93.6			
[U	238	103.006				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 21:18:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.009

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.591 ug/L	6.848	14218	0.019
[>	Sc	45	ug/L		757474	757473.924
[>	Lu	175	ug/L		81462	81462.085
[	U	238	51.282 ug/L	0.315	211917	2.601

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9	107.183				
>	Sc	45		106.1			
>	Lu	175		97.1			
[U	238	102.564				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 21:20:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.010

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.004 ug/L	298.737	8	0.000
[>	Sc	45	ug/L		766033	766033.230
[>	Lu	175	ug/L		82395	82394.750
[	U	238	0.111 ug/L	3.347	485	0.006

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		107.3			
[>	Lu	175		98.2			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015846

Sample Date/Time: Saturday, February 06, 2010 21:23:39

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015846.011

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.005 ug/L	156.511	5	-0.000
[>	Sc	45	ug/L		704139	704138.746
[>	Lu	175	ug/L		74283	74283.373
[	U	238	0.048 ug/L	3.874	197	0.002

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45			98.6		
[>	Lu	175			88.6		
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015851

Sample Date/Time: Saturday, February 06, 2010 21:26:20

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 941798|40|rm|

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015851.012

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	24.090 ug/L	0.990	6702	0.008
[>	Sc	45	ug/L		792116	792116.482
[>	Lu	175	ug/L		85188	85188.451
[	U	238	0.564 ug/L	0.388	2458	0.029

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45			110.9		
[>	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

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 21:29:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.013

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.640 ug/L	7.326	13703	0.017
[>	Sc	45	ug/L		787829	787828.599
[>	Lu	175	ug/L		82823	82823.306
[	U	238	50.748 ug/L	2.424	213153	2.574

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9	99.280				
[>	Sc	45		110.3			
[>	Lu	175		98.8			
[U	238	101.495				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 21:31:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.014

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.007 ug/L	134.491	8	0.000
[>	Sc	45	ug/L		776566	776565.704
[>	Lu	175	ug/L		80991	80991.414
[	U	238	0.107 ug/L	7.962	458	0.005

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45		108.8			
[>	Lu	175		96.6			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628001

Sample Date/Time: Saturday, February 06, 2010 21:34:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628001.015

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.342 ug/L	8.589	847	0.001
[>	Sc	45	ug/L		718105	718105.230
[>	Lu	175	ug/L		77397	77396.549
[	U	238	20.688 ug/L	0.582	81236	1.049

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		100.6			
[>	Lu	175		92.3			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015847

Sample Date/Time: Saturday, February 06, 2010 21:37:03

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015847.016

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.051 ug/L	3.190	798	0.001
[>	Sc	45	ug/L		739639	739639.292
[>	Lu	175	ug/L		76807	76807.387
[	U	238	6.670 ug/L	1.595	25999	0.338

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9				
[>	Sc	45		103.6		
[>	Lu	175		91.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015849

Sample Date/Time: Saturday, February 06, 2010 21:39:44

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015849.017

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	34.474 ug/L	2.173	9119	0.012
[>	Sc	45	ug/L		753538	753537.878
[>	Lu	175	ug/L		75964	75964.200
[	U	238	40.112 ug/L	0.842	154584	2.035

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		105.5			
[>	Lu	175		90.6			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015850

Sample Date/Time: Saturday, February 06, 2010 21:42:25

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015850.018

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	35.875 ug/L	0.447	9176	0.013
[>	Sc	45	ug/L		728306	728306.441
[>	Lu	175	ug/L		75830	75830.164
[	U	238	40.169 ug/L	1.114	154511	2.037

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		102.0			
[>	Lu	175		90.4			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 1202015848

Sample Date/Time: Saturday, February 06, 2010 21:45:06

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 941798|10|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\1202015848.019

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.651 ug/L	5.636	184	0.000
[>	Sc	45	ug/L		775549	775549.286
[>	Lu	175	ug/L		76644	76644.500
[	U	238	4.050 ug/L	1.951	15762	0.205

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		108.6			
[>	Lu	175		91.4			
[	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#6 - Summary Report

Sample ID: 244628002

Sample Date/Time: Saturday, February 06, 2010 21:47:48

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628002.020

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.951 ug/L	3.124	1027	0.001
>	Sc	45	ug/L		736942	736941.876
>	Lu	175	ug/L		79639	79638.833
[	U	238	35.990 ug/L	0.459	145398	1.826

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
>	Sc	45		103.2			
>	Lu	175		95.0			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628003

Sample Date/Time: Saturday, February 06, 2010 21:50:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rm|

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628003.021

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.074	ug/L	4.310	824	0.001
[> Sc	45		ug/L		759285	759284.546
[> Lu	175		ug/L		79381	79381.409
[U	238	4.854	ug/L	1.526	19562	0.246

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		106.3			
[>	Lu	175		94.7			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628004

Sample Date/Time: Saturday, February 06, 2010 21:53:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628004.022

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.136 ug/L	2.360	831	0.001
[>	Sc	45	ug/L		749927	749926.920
[>	Lu	175	ug/L		78542	78542.106
[	U	238	37.859 ug/L	1.013	150841	1.920

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		105.0			
[>	Lu	175		93.7			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 21:55:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.023

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.503 ug/L	5.018	14252	0.017
[>	Sc	45	ug/L		820683	820683.167
[>	Lu	175	ug/L		82248	82248.322
[	U	238	51.625 ug/L	3.391	215290	2.619

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9	99.007				
[>	Sc	45		114.9			
[>	Lu	175		98.1			
[U	238	103.250				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 21:58:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.024

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.005 ug/L	413.921	8	0.000
[>	Sc	45	ug/L		826948	826948.332
[>	Lu	175	ug/L		79343	79343.208
[	U	238	0.102 ug/L	4.595	431	0.005

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45		115.8			
[>	Lu	175		94.6			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628005

Sample Date/Time: Saturday, February 06, 2010 22:01:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628005.025

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean	
[	Be	9	3.385	ug/L	4.041	901	0.001
[>	Sc	45	ug/L		752908	752908.275	
[>	Lu	175	ug/L		81132	81131.898	
[	U	238	3.830	ug/L	1.377	15781	0.194

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45		105.4			
[>	Lu	175		96.7			
[	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#6 - Summary Report

Sample ID: 244628006

Sample Date/Time: Saturday, February 06, 2010 22:03:56

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628006.026

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	5.160	ug/L	2.869	1326	0.002
[> Sc	45		ug/L		728866	728866.088
[> Lu	175		ug/L		74038	74038.126
[U	238	8.527	ug/L	0.911	32040	0.433

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		102.1			
[>	Lu	175		88.3			
[	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#6 - Summary Report

Sample ID: 244628007

Sample Date/Time: Saturday, February 06, 2010 22:06:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628007.027

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.231 ug/L	8.005	816	0.001
[>	Sc	45	ug/L		715406	715405.756
[>	Lu	175	ug/L		76433	76433.400
[	U	238	3.771 ug/L	2.853	14635	0.191

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45		100.2			
[>	Lu	175		91.1			
[	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

ICPMS#6 - Summary Report

Sample ID: 244628008

Sample Date/Time: Saturday, February 06, 2010 22:09:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628008.028

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	4.866 ug/L	11.316	1279	0.002
[>	Sc	45	ug/L		747806	747805.611
[>	Lu	175	ug/L		74483	74483.416
[	U	238	5.694 ug/L	1.848	21529	0.289

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		104.7			
[>	Lu	175		88.8			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628009

Sample Date/Time: Saturday, February 06, 2010 22:12:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628009.029

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	5.558 ug/L	1.942	1496	0.002
[>	Sc	45	ug/L		763774	763774.067
[>	Lu	175	ug/L		79957	79956.600
[	U	238	5.760 ug/L	2.637	23378	0.292

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
>	Sc	45		107.0			
>	Lu	175		95.3			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628010

Sample Date/Time: Saturday, February 06, 2010 22:14:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rmj

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628010.030

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	5.799 ug/L	0.767	1546	0.002
[>	Sc	45	ug/L		756608	756607.706
[>	Lu	175	ug/L		76540	76539.627
[	U	238	25.100 ug/L	1.887	97450	1.273

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			106.0		
[>	Lu	175			91.3		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628011

Sample Date/Time: Saturday, February 06, 2010 22:17:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rm|

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\244628011.031

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.171	ug/L	0.771	880	0.001
[> Sc	45		ug/L		784820	784820.496
[> Lu	175		ug/L		79532	79531.922
[U	238	5.890	ug/L	2.022	23778	0.299

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
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
[	Be	9					
[>	Sc	45		109.9			
[>	Lu	175		94.8			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 22:20:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.032

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.778 ug/L	3.941	14526	0.018
[>	Sc	45	ug/L		815253	815253.357
[>	Lu	175	ug/L		81403	81402.608
[	U	238	52.687 ug/L	3.113	217404	2.672

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9	101.557				
>	Sc	45		114.2			
>	Lu	175		97.1			
[	U	238	105.375				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 22:22:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\beu.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.033

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.006	ug/L	222.783	9	0.000
[> Sc	45		ug/L		840878	840877.781
[> Lu	175		ug/L		80229	80228.795
[U	238	0.102	ug/L	8.683	434	0.005

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		117.8			
[>	Lu	175		95.7			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, February 06, 2010 23:07:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\Blank.045

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		85231	
[TI	205		ug/L		60	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu	175					
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, February 06, 2010 23:12:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\Standard 1.046

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175	ug/L		86616	86616.377
L	Tl	205	10.000 ug/L	2.829	26439	0.305

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				
L	Tl	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 06, 2010 23:16:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\Standard 2.047

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		84649	84649.294
[	Tl	205	99.987 ug/L	0.978	254677	3.008

Calibration

Analyte	Mass Curve 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							
[Tl	205							

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 06, 2010 23:21:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 1.048

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		85096	85095.557
[	Tl	205	49.697 ug/L	0.345	127294	1.495

Calibration

Analyte	Mass Curve 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		99.8		
[Tl	205	99.393			

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, February 06, 2010 23:26:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\1.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 2.049

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		81919	81918.705
[	TI	205	0.015 ug/L	19.303	93	0.000

Calibration

Analyte	Mass Curve 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		96.1			
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 06, 2010 23:31:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 3.050

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		88578	88577.983
[TI	205	1.038	ug/L	2.276	2829	0.031

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		103.9			
[TI	205	103.831				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, February 06, 2010 23:36:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\vl.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 4.051

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		82182	82182.197
[	TI	205	0.010 ug/L	20.087	83	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		96.4			
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, February 06, 2010 23:41:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 5.052

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		81450	81450.036
[	Tl	205	19.460 ug/L	0.697	47742	0.585

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		95.6			
[Tl	205	97.299				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 23:46:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I1.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.053

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		86011	86010.684
[TI	205	49.040	ug/L	0.194	126965	1.475

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			100.9		
[TI	205	98.080				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 23:51:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.054

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		85705	85705.235
[	Tl	205	0.016 ug/L	25.435	100	0.000

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		100.6		
[Tl	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628014

Sample Date/Time: Saturday, February 06, 2010 23:56:09

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rm|

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\244628014.055

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		88767	88766.517
[TI	205	0.237	ug/L	1.439	694	0.007

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		104.1			
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 23:59:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\11.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 6.056

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Lu	175		ug/L		88069	88069.208
Tl	205	48.527	ug/L	1.357	128638	1.460

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			103.3			
Tl	205	97.054					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, February 07, 2010 00:04:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\dl.mth

Dataset File: C:\elandata\Dataset\100206\QC Std 7.057

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		85767	85767.225
[TI 205	0.012	ug/L	2.896	92	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu 175		100.6			
[TI 205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, February 08, 2010 21:22:37

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100204\Sample.311

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		1086.8		1086.841		23.039		2.1
Mg	24.0		16098.7		16098.667		216.519		1.3
Co	58.9		19220.5		19220.523		264.392		1.4
Rh	102.9		34926.9		34926.854		607.249		1.7
In	114.9		38881.1		38881.052		673.764		1.7
Pb	208.0		16186.4		16186.365		132.245		0.8
[> Ba	137.9		32965.3		32965.258		423.157		1.3
[Ba++	69.0		1593.1		0.048		0.001		1.5
[> Ce	139.9		44535.3		44535.314		341.158		0.8
[CeO	155.9		851.9		0.019		0.000		1.1
Bkgd	220.0		14.8		14.800		2.197		14.8

Current Optimization File Data

Current Value	Description
0.82	Nebulizer Gas Flow
14.00	Lens Voltage
1450.00	ICP RF Power
-1781.25	Analog Stage Voltage
900.00	Pulse Stage Voltage
40.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	10.0	1853.5
Co	59	17	11.0	19463.6
In	115	17	12.5	36353.2

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	584	2080	0.668
Be	9.0	9.0	2038	2080	0.693
Mg	24.0	24.0	5678	2120	0.710
Mg	25.0	25.0	5896	2080	0.747
Mg	26.0	26.0	6161	2120	0.736
Co	58.9	59.0	14186	2170	0.676
Rh	102.9	102.8	24843	2230	0.745
In	114.9	114.9	27771	2260	0.725
Ce	139.9	139.9	33845	2280	0.780
Pb	206.0	206.0	49948	2430	0.756
Pb	207.0	206.9	50123	2385	0.693
Pb	208.0	207.9	50451	2430	0.751
U	238.1	238.0	57718	2470	0.733

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, February 09, 2010 03:47:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\Blank.403

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	ug/L		5	
>	Sc	45	ug/L		768578	
|	Cu	63	ug/L		96	
[	Cu	65	ug/L		94	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	
Cu	63Simple Linear	
Cu	65Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be		9				
|>	Sc		45				
|	Cu		63				
[	Cu		65				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, February 09, 2010 03:50:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\Standard 1.404

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000 ug/L	13.566	2544	0.003
>	Sc	45	ug/L		772389	772389.016
|	Cu	63	ug/L		10847	0.014
]	Cu	65	10.000 ug/L	10.829	5340	0.007

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be		9				
|>	Sc		45				
|	Cu		63				
[Cu		65				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, February 09, 2010 03:53:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\Standard 2.405

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	100.030 ug/L	8.965	25421	0.034
>	Sc	45	ug/L		747086	747085.537
|	Cu	63	ug/L		105351	0.142
[	Cu	65	99.999 ug/L	12.898	50730	0.068

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be		9				
| >	Sc		45				
|	Cu		63				
[	Cu		65				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, February 09, 2010 03:55:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 1.406

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.047 ug/L	7.101	13066	0.018
|>	Sc	45	ug/L		736756	736755.950
|	Cu	63	ug/L		52424	0.072
[	Cu	65	50.489 ug/L	10.383	25357	0.035

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Be	9	104.094				
>	Sc	45		95.9			
|	Cu	63					
|	Cu	65	100.979				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, February 09, 2010 03:58:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 2.407

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.012 ug/L	126.796	8	0.000
|>	Sc	45	ug/L		721123	721122.859
|	Cu	63	ug/L		135	0.000
[	Cu	65	0.048 ug/L	60.366	111	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate	Rel. % Difference
[	Be	9						
|>	Sc	45			93.8			
|	Cu	63						
	Cu	65						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, February 09, 2010 04:01:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 3.408

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.494 ug/L	5.020	141	0.000
>	Sc	45	ug/L		801118	801118.305
|	Cu	63	ug/L		1368	0.002
L	Cu	65	1.062 ug/L	5.242	680	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	98.872				
|>	Sc	45		104.2			
|	Cu	63					
[Cu	65	106.177				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, February 09, 2010 04:03:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 4.409

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.111 ug/L	21.845	33	0.000
>	Sc	45	ug/L		736615	736615.404
|	Cu	63	ug/L		3083	0.004
[	Cu	65	5.260 ug/L	2.549	2740	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45			95.8		
|	Cu	63					
L	Cu	65	157.494				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, February 09, 2010 04:06:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 5.410

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	21.791	ug/L	13.449	5011	0.007
> Sc	45		ug/L		678651	678651.344
| Cu	63		ug/L		21728	0.032
[Cu	65	25.451	ug/L	12.836	11772	0.017

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
[	Be	9		108.957								
| >	Sc	45					88.3					
|	Cu	63										
[	Cu	65		111.141								

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 04:09:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 6.411

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	48.473 ug/L	5.123	12754	0.017
>	Sc	45	ug/L		769180	769179.570
|	Cu	63	ug/L		51004	0.066
[	Cu	65	46.589 ug/L	0.938	24593	0.032

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	96.945				
|>	Sc	45		100.1			
|	Cu	63					
L	Cu	65	93.177				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 04:12:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 7.412

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.006 ug/L	110.426	6	0.000
|	Sc	45	ug/L		707628	707628.423
|	Cu	63	ug/L		115	0.000
[	Cu	65	0.066 ug/L	45.254	118	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		92.1			
|	Cu	63					
	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Tuesday, February 09, 2010 04:14:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 10.413

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	919.580 ug/L	3.172	232949	0.315
>	Sc	45	ug/L		740705	740705.188
|	Cu	63	ug/L		807821	1.090
[	Cu	65	805.967 ug/L	1.481	408266	0.551

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
[	Be	9		91.958								
>	Sc	45					96.4					
|	Cu	63										
]	Cu	65		80.597								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Cu	65	65LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Tuesday, February 09, 2010 04:17:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 11.414

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	46.905	ug/L	3.262	12551	0.016
| > Sc	45		ug/L		782056	782055.768
| Cu	63		ug/L		51051	0.065
[Cu	65	46.527	ug/L	1.504	24970	0.032

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	93.810				
>	Sc	45		101.8			
|	Cu	63					
]	Cu	65	93.055				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Tuesday, February 09, 2010 04:20:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 12.415

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.032	ug/L	35.846	13	0.000
> Sc	45		ug/L		728889	728889.487
| Cu	63		ug/L		215	0.000
[Cu	65	0.144	ug/L	4.549	161	0.000

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
| >	Sc	45			94.8		
|	Cu	63					
L	Cu	65					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628012

Sample Date/Time: Tuesday, February 09, 2010 04:26:02

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rm|

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\244628012.416

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.500 ug/L	3.029	948	0.001
>	Sc	45	ug/L		786964	786964.007
|	Cu	63	ug/L		27612	0.035
[	Cu	65	25.231 ug/L	0.373	13673	0.017

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		102.4			
|	Cu	63					
]	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628013

Sample Date/Time: Tuesday, February 09, 2010 04:29:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rm|

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\244628013.417

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.254 ug/L	6.258	893	0.001
|>	Sc	45	ug/L		797935	797934.953
|	Cu	63	ug/L		25772	0.032
[	Cu	65	23.540 ug/L	3.395	12932	0.016

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		103.8			
|	Cu	63					
[Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, February 09, 2010 04:32:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 8.418

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	47.588 ug/L	3.247	13058	0.016
|>	Sc	45	ug/L		802040	802039.941
|	Cu	63	ug/L		54070	0.067
[	Cu	65	47.448 ug/L	2.320	26110	0.032

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	95.175				
|>	Sc	45		104.4			
|	Cu	63					
L	Cu	65	94.896				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, February 09, 2010 04:35:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 9.419

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.010 ug/L	60.786	8	0.000
>	Sc	45	ug/L		779048	779048.026
|	Cu	63	ug/L		131	0.000
L	Cu	65	0.041 ug/L	31.277	117	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		101.4			
|	Cu	63					
[Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628014

Sample Date/Time: Tuesday, February 09, 2010 04:37:46

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798[2]rm]

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\244628014.420

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	5.875 ug/L	7.419	1581	0.002
>	Sc	45	ug/L		784177	784176.959
|	Cu	63	ug/L		20493	0.026
[	Cu	65	19.150 ug/L	0.526	10365	0.013

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		102.0			
|	Cu	63					
[	Cu	65					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628015

Sample Date/Time: Tuesday, February 09, 2010 04:40:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\244628015.421

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ > | ]	Be	9	5.134 ug/L	4.621	1409	0.002
	Sc	45	ug/L		799583	799583.091
	Cu	63	ug/L		44821	0.056
	Cu	65	40.641 ug/L	0.689	22316	0.028

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be		9				
|>	Sc		45		104.0		
|	Cu		63				
[Cu		65				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 244628016

Sample Date/Time: Tuesday, February 09, 2010 04:44:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 941798|2|rmj

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\244628016.422

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.764 ug/L	2.502	992	0.001
>	Sc	45	ug/L		766568	766568.045
|	Cu	63	ug/L		15373	0.020
[	Cu	65	14.946 ug/L	2.092	7925	0.010

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		99.7			
|	Cu	63					
L	Cu	65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 09, 2010 04:47:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 6.423

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean	
[v | |	Be	9	47.687	ug/L	5.364	13077	0.016
	Sc	45		ug/L		801301	801300.696
	Cu	63		ug/L		53467	0.067
	Cu	65	46.762	ug/L	0.952	25718	0.032

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	95.374				
|>	Sc	45		104.3			
|	Cu	63					
[Cu	65	93.523				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 09, 2010 04:49:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\becu.mth

Dataset File: c:\elandata\Dataset\100204\QC Std 7.424

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.013 ug/L	39.262	9	0.000
>	Sc	45	ug/L		767894	767893.512
|	Cu	63	ug/L		145	0.000
[	Cu	65	0.013 ug/L	251.947	101	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate	Rel. % Difference
[	Be		9					
>	Sc		45		99.9			
|	Cu		63					
	Cu		65					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10Sample Information File: C:\data-AA\Administrator\Sample Information\012810S1.SIF
Batch ID:
Results Data Set: 012810S1
Results Library: C:\data-AA\Administrator\Results\Results.mdb=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 1/28/2010 08:53:52

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.00]	0.0002	-0.0001	0.0002	08:54:44	Yes
2		[0.00]	0.0001	-0.0003	0.0001	08:55:13	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	29.97				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 1/28/2010 08:55:32

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.2]	0.0020	0.0081	0.0022	08:56:23	Yes
2		[0.2]	0.0021	0.0093	0.0023	08:56:53	Yes
Mean:		[0.2]	0.0021				
SD:		0.0	0.0001				
%RSD:		0.0	2.74				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01038 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 1/28/2010 08:57:12

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.5]	0.0054	0.0215	0.0055	08:58:03	Yes
2		[0.5]	0.0054	0.0220	0.0055	08:58:33	Yes
Mean:		[0.5]	0.0054				
SD:		0.0	0.0000				
%RSD:		0.0	0.01				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999902 Slope: 0.01072 Intercept: -0.00003

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 1/28/2010 08:58:52

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0219	0.0915	0.0221	08:59:44	Yes
2		[2.0]	0.0218	0.0916	0.0219	09:00:14	Yes
Mean:		[2.0]	0.0218				
SD:		0.0	0.0001				
%RSD:		0.0	0.40				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999983 Slope: 0.01095 Intercept: -0.00007

Sequence No.: 5
Sample ID: S5.0
Analyst:

Autosampler Location: 5
Date Collected: 1/28/2010 09:00:33
Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0547	0.2297	0.0548	09:01:25	Yes
2		[5.0]	0.0544	0.2281	0.0545	09:01:55	Yes
Mean:		[5.0]	0.0545				
SD:		0.0	0.0002				
%RSD:		0.0	0.43				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999997 Slope: 0.01092 Intercept: -0.00006

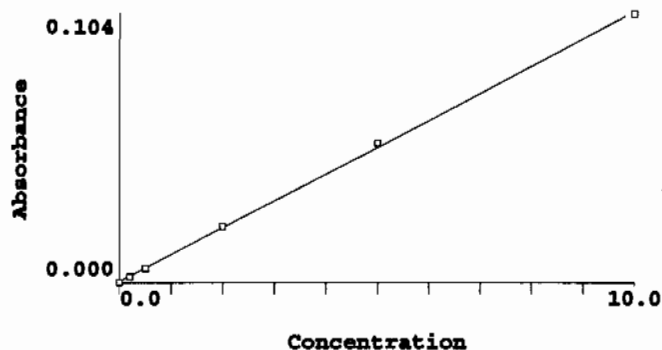
Sequence No.: 6
Sample ID: S10.0
Analyst:

Autosampler Location: 6
Date Collected: 1/28/2010 09:02:15
Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1045	0.4437	0.1046	09:03:05	Yes
2		[10.0]	0.1043	0.4410	0.1045	09:03:35	Yes
Mean:		[10.0]	0.1044				
SD:		0.0	0.0001				
%RSD:		0.0	0.12				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999747 Slope: 0.01049 Intercept: 0.00043

-----
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	-0.041	0.00	30.0
S0.2	0.0021	0.2	0.157	0.00	2.7
S0.5	0.0054	0.5	0.469	0.00	0.0
S2.0	0.0218	2.0	2.042	0.00	0.4

S5.0 0.0545 5.0 5.159 0.00 0.4
S10.0 0.1044 10.0 9.914 0.00 0.1
Correlation Coef.: 0.999747 Slope: 0.01049 Intercept: 0.00043

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 1/28/2010 09:03:54

Analyst:

Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.094	5.094	0.0539	0.2278	0.0540	09:04:46	Yes
2	5.099	5.099	0.0539	0.2267	0.0540	09:05:15	Yes
Mean:	5.097	5.097	0.0539				
SD:	0.003	0.003	0.0000				
%RSD:	0.058	0.058	0.06				

QC value within limits for Hg 253.7 Recovery = 101.93%
All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 1/28/2010 09:05:35

Analyst:

Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.052	-0.052	-0.0001	-0.0016	0.0000	09:06:27	Yes
2	-0.048	-0.048	-0.0001	-0.0008	0.0001	09:06:56	Yes
Mean:	-0.050	-0.050	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	6.738	6.738	39.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 11

Sample ID: CRDL

Date Collected: 1/28/2010 09:07:16

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.164	0.164	0.0022	0.0088	0.0023	09:08:08	Yes
2	0.155	0.155	0.0021	0.0078	0.0022	09:08:38	Yes
Mean:	0.159	0.159	0.0021				
SD:	0.007	0.007	0.0001				
%RSD:	4.126	4.126	3.27				

QC value within limits for Hg 253.7 Recovery = 79.64%
All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 09:08:58

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.072	5.072	0.0536	0.2278	0.0538	09:09:48	Yes
2	5.052	5.052	0.0534	0.2256	0.0536	09:10:18	Yes
Mean:	5.062	5.062	0.0535				
SD:	0.014	0.014	0.0002				
%RSD:	0.286	0.286	0.28				

QC value within limits for Hg 253.7 Recovery = 101.24%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 1/28/2010 09:10:37
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.050	-0.050	-0.0001	-0.0011	0.0001	09:11:27	Yes
2	-0.049	-0.049	-0.0001	-0.0007	0.0001	09:11:57	Yes
Mean:	-0.050	-0.050	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.809	0.809	4.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202019704|943287|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 1/28/2010 09:12:17
Data Type: Original

Replicate Data: 1202019704|943287|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.048	-0.048	-0.0001	-0.0009	0.0001	09:13:08	Yes
2	-0.051	-0.051	-0.0001	-0.0010	0.0001	09:13:38	Yes
Mean:	-0.049	-0.049	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	3.339	3.339	20.56				

Sequence No.: 13
Sample ID: 1202019705|943287|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 1/28/2010 09:13:58
Data Type: Original

Replicate Data: 1202019705|943287|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.720	3.720	0.0394	0.1674	0.0396	09:14:50	Yes
2	3.699	3.699	0.0392	0.1659	0.0394	09:15:19	Yes
Mean:	3.710	3.710	0.0393				
SD:	0.015	0.015	0.0002				
%RSD:	0.410	0.410	0.41				

Sequence No.: 14
Sample ID: 244227001|943287|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 1/28/2010 09:15:40
Data Type: Original

Replicate Data: 244227001|943287|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0007	0.0017	0.0009	09:16:30	Yes
2	0.028	0.028	0.0007	0.0022	0.0009	09:17:00	Yes
Mean:	0.028	0.028	0.0007				
SD:	0.001	0.001	0.0000				
%RSD:	4.386	4.386	1.75				

Sequence No.: 15
Sample ID: 1202019706|943287|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 1/28/2010 09:17:19
Data Type: Original

Replicate Data: 1202019706|943287|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

Replicate Data: 244227003|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.137	0.137	0.0019	0.0087	0.0020	09:26:27	Yes
2	0.136	0.136	0.0019	0.0083	0.0020	09:26:57	Yes
Mean:	0.137	0.137	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.806	0.806	0.62				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 244227004|943287|1

Date Collected: 1/28/2010 09:27:16

Analyst: JXL

Data Type: Original

Replicate Data: 244227004|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.219	0.219	0.0027	0.0119	0.0029	09:28:07	Yes
2	0.213	0.213	0.0027	0.0110	0.0028	09:28:37	Yes
Mean:	0.216	0.216	0.0027				
SD:	0.004	0.004	0.0000				
%RSD:	1.899	1.899	1.59				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 09:28:56

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.005	5.005	0.0529	0.2242	0.0531	09:29:46	Yes
2	5.020	5.020	0.0531	0.2247	0.0532	09:30:16	Yes
Mean:	5.012	5.012	0.0530				
SD:	0.011	0.011	0.0001				
%RSD:	0.221	0.221	0.22				

QC value within limits for Hg 253.7 Recovery = 100.25%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 1/28/2010 09:30:35

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.049	-0.049	-0.0001	-0.0006	0.0001	09:31:26	Yes
2	-0.043	-0.043	-0.0000	0.0003	0.0001	09:31:56	Yes
Mean:	-0.046	-0.046	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	8.634	8.634	90.40				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 244227005|943287|1

Date Collected: 1/28/2010 09:32:15

Analyst: JXL

Data Type: Original

Replicate Data: 244227005|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.268	0.268	0.0032	0.0141	0.0034	09:33:06	Yes
2	0.265	0.265	0.0032	0.0139	0.0034	09:33:36	Yes

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.165	0.165	0.0022	0.0111	0.0023	09:41:33	Yes
2	0.166	0.166	0.0022	0.0112	0.0023	09:42:03	Yes
Mean:	0.165	0.165	0.0022				
SD:	0.000	0.000	0.0000				
%RSD:	0.181	0.181	0.14				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 244227011|943287|1

Date Collected: 1/28/2010 09:42:22

Analyst: JXL

Data Type: Original

Replicate Data: 244227011|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.011	0.011	0.0006	0.0024	0.0007	09:43:13	Yes
2	0.012	0.012	0.0006	0.0026	0.0007	09:43:43	Yes
Mean:	0.011	0.011	0.0006				
SD:	0.000	0.000	0.0000				
%RSD:	2.628	2.628	0.57				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 244227012|943287|1

Date Collected: 1/28/2010 09:44:02

Analyst: JXL

Data Type: Original

Replicate Data: 244227012|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.140	0.140	0.0019	0.0083	0.0021	09:44:53	Yes
2	0.132	0.132	0.0018	0.0079	0.0020	09:45:23	Yes
Mean:	0.136	0.136	0.0019				
SD:	0.005	0.005	0.0001				
%RSD:	3.982	3.982	3.05				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 244227013|943287|1

Date Collected: 1/28/2010 09:45:42

Analyst: JXL

Data Type: Original

Replicate Data: 244227013|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.361	0.361	0.0042	0.0181	0.0044	09:46:32	Yes
2	0.362	0.362	0.0042	0.0184	0.0044	09:47:02	Yes
Mean:	0.361	0.361	0.0042				
SD:	0.001	0.001	0.0000				
%RSD:	0.169	0.169	0.15				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 244227014|943287|1

Date Collected: 1/28/2010 09:47:21

Analyst: JXL

Data Type: Original

Replicate Data: 244227014|943287|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.181	0.181	0.0023	0.0102	0.0025	09:48:12	Yes
2	0.180	0.180	0.0023	0.0101	0.0025	09:48:42	Yes
Mean:	0.181	0.181	0.0023				
SD:	0.001	0.001	0.0000				
%RSD:	0.497	0.497	0.40				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 09:49:01

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.102	5.102	0.0539	0.2295	0.0541	09:49:52	Yes
2	5.115	5.115	0.0541	0.2304	0.0542	09:50:22	Yes
Mean:	5.109	5.109	0.0540				
SD:	0.009	0.009	0.0001				
%RSD:	0.184	0.184	0.18				

QC value within limits for Hg 253.7 Recovery = 102.17%
All analyte(s) passed QC.

=====

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 1/28/2010 09:50:41

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.038	-0.038	0.0000	0.0015	0.0002	09:51:31	Yes
2	-0.030	-0.030	0.0001	0.0023	0.0003	09:52:01	Yes
Mean:	-0.034	-0.034	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	16.35	16.35	78.42				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 36

Autosampler Location: 32

Sample ID: 244227015|943287|1

Date Collected: 1/28/2010 09:52:21

Analyst: JXL

Data Type: Original

Replicate Data: 244227015|943287|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.096	0.096	0.0014	0.0077	0.0016	09:53:11	Yes
2	0.096	0.096	0.0014	0.0080	0.0016	09:53:41	Yes
Mean:	0.096	0.096	0.0014				
SD:	0.000	0.000	0.0000				
%RSD:	0.188	0.188	0.13				

=====

Sequence No.: 37

Autosampler Location: 33

Sample ID: 1202019684|943278|1

Date Collected: 1/28/2010 09:54:01

Analyst: JXL

Data Type: Original

Replicate Data: 1202019684|943278|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.021	-0.021	0.0002	0.0033	0.0004	09:54:51	Yes
2	-0.020	-0.020	0.0002	0.0032	0.0004	09:55:21	Yes
Mean:	-0.021	-0.021	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	2.351	2.351	2.37				

=====

Sequence No.: 38

Autosampler Location: 34

Sample ID: 1202019685|943278|10

Date Collected: 1/28/2010 09:55:41

Analyst: JXL

Data Type: Original

Replicate Data: 1202019685|943278|10

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.800	3.800	0.0403	0.1714	0.0404	09:56:32	Yes

Replicate Data: 244228005|943278|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.124	0.124	0.0017	0.0081	0.0019	10:04:57	Yes
2	0.126	0.126	0.0018	0.0084	0.0019	10:05:27	Yes
Mean:	0.125	0.125	0.0017				
SD:	0.001	0.001	0.0000				
%RSD:	0.819	0.819	0.62				

Sequence No.: 44

Sample ID: 244228006|943278|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 1/28/2010 10:05:46

Data Type: Original

Replicate Data: 244228006|943278|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.153	0.153	0.0020	0.0094	0.0022	10:06:37	Yes
2	0.153	0.153	0.0020	0.0095	0.0022	10:07:07	Yes
Mean:	0.153	0.153	0.0020				
SD:	0.000	0.000	0.0000				
%RSD:	0.115	0.115	0.09				

Sequence No.: 45

Sample ID: 244888001|943278|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 1/28/2010 10:07:26

Data Type: Original

Replicate Data: 244888001|943278|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.151	0.151	0.0020	0.0092	0.0022	10:08:17	Yes
2	0.156	0.156	0.0021	0.0101	0.0022	10:08:47	Yes
Mean:	0.154	0.154	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	2.238	2.238	1.76				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 10:09:07

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.176	5.176	0.0547	0.2332	0.0549	10:09:57	Yes
2	5.172	5.172	0.0547	0.2332	0.0548	10:10:27	Yes
Mean:	5.174	5.174	0.0547				
SD:	0.003	0.003	0.0000				
%RSD:	0.049	0.049	0.05				

QC value within limits for Hg 253.7 Recovery = 103.47%

All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 10:10:46

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.045	-0.045	-0.0000	0.0005	0.0001	10:11:36	Yes
2	-0.040	-0.040	0.0000	0.0012	0.0002	10:12:06	Yes
Mean:	-0.042	-0.042	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	7.815	7.815	354.02				

QC value within limits for Hg 253.7 Recovery = Not calculated

Replicate Data: 244920001|943278|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	11.68	11.68	0.1229	0.5238	0.1230	10:28:23	Yes
Sample concentration is greater than that of the highest standard.							
2	11.65	11.65	0.1226	0.5219	0.1227	10:28:53	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	11.66	11.66	0.1227				
SD:	0.022	0.022	0.0002				
%RSD:	0.191	0.191	0.19				
Sample concentration is greater than that of the highest standard.							

=====

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 10:29:13

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.167	5.167	0.0546	0.2323	0.0548	10:30:04	Yes
2	5.181	5.181	0.0548	0.2326	0.0549	10:30:34	Yes
Mean:	5.174	5.174	0.0547				
SD:	0.010	0.010	0.0001				
%RSD:	0.195	0.195	0.19				
QC value within limits for Hg 253.7 Recovery = 103.48%							
All analyte(s) passed QC.							

=====

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 10:30:52

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.038	-0.038	0.0000	0.0005	0.0002	10:31:43	Yes
2	-0.033	-0.033	0.0001	0.0013	0.0002	10:32:13	Yes
Mean:	-0.035	-0.035	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	8.424	8.424	50.14				
QC value within limits for Hg 253.7 Recovery = Not calculated							
All analyte(s) passed QC.							

=====

Sequence No.: 60

Sample ID: 1202019686|943278|1

Analyst: JXL

Autosampler Location: 52

Date Collected: 1/28/2010 10:32:32

Data Type: Original

Replicate Data: 1202019686|943278|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	12.34	12.34	0.1299	0.5561	0.1300	10:33:23	Yes
Sample concentration is greater than that of the highest standard.							
2	12.27	12.27	0.1291	0.5508	0.1292	10:33:53	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	12.31	12.31	0.1295				
SD:	0.054	0.054	0.0006				
%RSD:	0.443	0.443	0.44				
Sample concentration is greater than that of the highest standard.							

=====

Sequence No.: 61

Sample ID: 1202019687|943278|1

Analyst: JXL

Autosampler Location: 53

Date Collected: 1/28/2010 10:34:12

Data Type: Original

Mean: 0.180 0.180 0.0023
SD: 0.002 0.002 0.0000
%RSD: 1.223 1.223 0.99

Sequence No.: 66

Sample ID: 1202019727|943294|1

Analyst: JXL

Autosampler Location: 58

Date Collected: 1/28/2010 10:42:34

Data Type: Original

Replicate Data: 1202019727|943294|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.034	-0.034	0.0001	0.0013	0.0002	10:43:25	Yes
2	-0.042	-0.042	-0.0000	0.0006	0.0001	10:43:55	Yes
Mean:	-0.038	-0.038	0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	14.59	14.59	163.60				

Sequence No.: 67

Sample ID: 1202019728|943294|10

Analyst: JXL

Autosampler Location: 59

Date Collected: 1/28/2010 10:44:15

Data Type: Original

Replicate Data: 1202019728|943294|10

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.852	3.852	0.0408	0.1757	0.0410	10:45:06	Yes
2	3.853	3.853	0.0408	0.1758	0.0410	10:45:36	Yes
Mean:	3.852	3.852	0.0408				
SD:	0.001	0.001	0.0000				
%RSD:	0.021	0.021	0.02				

Sequence No.: 68

Sample ID: 244242001|943294|1

Analyst: JXL

Autosampler Location: 60

Date Collected: 1/28/2010 10:45:56

Data Type: Original

Replicate Data: 244242001|943294|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.305	0.305	0.0036	0.0160	0.0038	10:46:47	Yes
2	0.299	0.299	0.0036	0.0157	0.0037	10:47:17	Yes
Mean:	0.302	0.302	0.0036				
SD:	0.004	0.004	0.0000				
%RSD:	1.352	1.352	1.19				

Sequence No.: 69

Sample ID: 1202019729|943294|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 1/28/2010 10:47:37

Data Type: Original

Replicate Data: 1202019729|943294|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.292	0.292	0.0035	0.0154	0.0036	10:48:29	Yes
2	0.302	0.302	0.0036	0.0167	0.0038	10:48:59	Yes
Mean:	0.297	0.297	0.0036				
SD:	0.007	0.007	0.0001				
%RSD:	2.334	2.334	2.05				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 10:49:19

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.089	5.089	0.0538	0.2313	0.0539	10:50:10	Yes
2	5.073	5.073	0.0536	0.2297	0.0538	10:50:40	Yes
Mean:	5.081	5.081	0.0537				
SD:	0.012	0.012	0.0001				
%RSD:	0.229	0.229	0.23				

QC value within limits for Hg 253.7 Recovery = 101.62%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 10:50:59

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.038	-0.038	0.0000	0.0006	0.0002	10:51:50	Yes
2	-0.035	-0.035	0.0001	0.0011	0.0002	10:52:20	Yes
Mean:	-0.036	-0.036	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	6.972	6.972	51.65				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Sample ID: 1202019730|943294|1

Analyst: JXL

Autosampler Location: 62

Date Collected: 1/28/2010 10:52:39

Data Type: Original

Replicate Data: 1202019730|943294|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.356	2.356	0.0251	0.1071	0.0253	10:53:30	Yes
2	2.347	2.347	0.0250	0.1079	0.0252	10:54:00	Yes
Mean:	2.351	2.351	0.0251				
SD:	0.007	0.007	0.0001				
%RSD:	0.281	0.281	0.28				

Sequence No.: 73

Sample ID: 1202019732|943294|1

Analyst: JXL

Autosampler Location: 63

Date Collected: 1/28/2010 10:54:19

Data Type: Original

Replicate Data: 1202019732|943294|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.405	2.405	0.0257	0.1099	0.0258	10:55:10	Yes
2	2.395	2.395	0.0255	0.1099	0.0257	10:55:40	Yes
Mean:	2.400	2.400	0.0256				
SD:	0.007	0.007	0.0001				
%RSD:	0.312	0.312	0.31				

Sequence No.: 74

Sample ID: 1202019731|943294|5

Analyst: JXL

Autosampler Location: 64

Date Collected: 1/28/2010 10:56:00

Data Type: Original

Replicate Data: 1202019731|943294|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0007	0.0034	0.0009	10:56:51	Yes
2	0.027	0.027	0.0007	0.0035	0.0009	10:57:21	Yes
Mean:	0.028	0.028	0.0007				
SD:	0.001	0.001	0.0000				
%RSD:	3.832	3.832	1.54				

2	0.374	0.374	0.0044	0.0197	0.0045	11:05:45	Yes
Mean:	0.373	0.373	0.0043				
SD:	0.002	0.002	0.0000				
%RSD:	0.659	0.659	0.59				

Sequence No.: 80

Autosampler Location: 70

Sample ID: 244242007|943294|1

Date Collected: 1/28/2010 11:06:05

Analyst: JXL

Data Type: Original

Replicate Data: 244242007|943294|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.400	2.400	0.0256	0.1107	0.0258	11:06:56	Yes
2	2.400	2.400	0.0256	0.1106	0.0257	11:07:26	Yes
Mean:	2.400	2.400	0.0256				
SD:	0.000	0.000	0.0000				
%RSD:	0.013	0.013	0.01				

Sequence No.: 81

Autosampler Location: 71

Sample ID: 244242008|943294|1

Date Collected: 1/28/2010 11:07:46

Analyst: JXL

Data Type: Original

Replicate Data: 244242008|943294|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.604	0.604	0.0068	0.0297	0.0069	11:08:37	Yes
2	0.608	0.608	0.0068	0.0304	0.0070	11:09:07	Yes
Mean:	0.606	0.606	0.0068				
SD:	0.003	0.003	0.0000				
%RSD:	0.450	0.450	0.42				

Sequence No.: 82

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 11:09:27

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.053	5.053	0.0534	0.2302	0.0536	11:10:17	Yes
2	5.037	5.037	0.0533	0.2308	0.0534	11:10:47	Yes
Mean:	5.045	5.045	0.0533				
SD:	0.011	0.011	0.0001				
%RSD:	0.217	0.217	0.21				

QC value within limits for Hg 253.7 Recovery = 100.90%
All analyte(s) passed QC.

Sequence No.: 83

Autosampler Location: 8

Sample ID: CCB

Date Collected: 1/28/2010 11:11:06

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.034	-0.034	0.0001	0.0004	0.0002	11:11:57	Yes
2	-0.038	-0.038	0.0000	0.0004	0.0002	11:12:26	Yes
Mean:	-0.036	-0.036	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	9.437	9.437	61.94				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84

Autosampler Location: 72

1	0.736	0.736	0.0082	0.0361	0.0083	11:28:48	Yes
2	0.740	0.740	0.0082	0.0355	0.0083	11:29:18	Yes
Mean:	0.738	0.738	0.0082				
SD:	0.003	0.003	0.0000				
%RSD:	0.343	0.343	0.32				

Sequence No.: 94

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 11:29:38

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.943	4.943	0.0523	0.2273	0.0524	11:30:29	Yes
2	5.042	5.042	0.0533	0.2297	0.0535	11:30:59	Yes
Mean:	4.993	4.993	0.0528				
SD:	0.070	0.070	0.0007				
%RSD:	1.403	1.403	1.39				

QC value within limits for Hg 253.7 Recovery = 99.86%
All analyte(s) passed QC.

Sequence No.: 95

Autosampler Location: 8

Sample ID: CCB

Date Collected: 1/28/2010 11:31:18

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	0.0000	0.0005	0.0002	11:32:08	Yes
2	-0.035	-0.035	0.0001	0.0009	0.0002	11:32:38	Yes
Mean:	-0.036	-0.036	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.882	5.882	42.30				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96

Autosampler Location: 82

Sample ID: 244515003|943299|1

Date Collected: 1/28/2010 11:32:57

Analyst: JXL

Data Type: Original

Replicate Data: 244515003|943299|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.101	0.101	0.0015	0.0064	0.0016	11:33:49	Yes
2	0.112	0.112	0.0016	0.0074	0.0018	11:34:18	Yes
Mean:	0.106	0.106	0.0015				
SD:	0.008	0.008	0.0001				
%RSD:	7.655	7.655	5.51				

Sequence No.: 97

Autosampler Location: 83

Sample ID: 244515004|943299|1

Date Collected: 1/28/2010 11:34:38

Analyst: JXL

Data Type: Original

Replicate Data: 244515004|943299|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.194	0.194	0.0025	0.0113	0.0026	11:35:30	Yes
2	0.192	0.192	0.0025	0.0110	0.0026	11:36:00	Yes
Mean:	0.193	0.193	0.0025				
SD:	0.001	0.001	0.0000				
%RSD:	0.566	0.566	0.47				

SD: 0.003 0.003 0.0000
%RSD: 3.765 3.765 2.37

Sequence No.: 103

Sample ID: 244604001|943299|1

Analyst: JXL

Autosampler Location: 89

Date Collected: 1/28/2010 11:44:48

Data Type: Original

Replicate Data: 244604001|943299|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.370	0.370	0.0043	0.0192	0.0045	11:45:40	Yes
2	0.370	0.370	0.0043	0.0193	0.0045	11:46:10	Yes
Mean:	0.370	0.370	0.0043				
SD:	0.000	0.000	0.0000				
%RSD:	0.006	0.006	0.01				

Sequence No.: 104

Sample ID: 244604002|943299|1

Analyst: JXL

Autosampler Location: 90

Date Collected: 1/28/2010 11:46:30

Data Type: Original

Replicate Data: 244604002|943299|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.274	0.274	0.0033	0.0153	0.0035	11:47:22	Yes
2	0.275	0.275	0.0033	0.0148	0.0035	11:47:51	Yes
Mean:	0.274	0.274	0.0033				
SD:	0.000	0.000	0.0000				
%RSD:	0.151	0.151	0.13				

Sequence No.: 105

Sample ID: 244622001|943299|1

Analyst: JXL

Autosampler Location: 91

Date Collected: 1/28/2010 11:48:12

Data Type: Original

Replicate Data: 244622001|943299|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.181	0.181	0.0023	0.0104	0.0025	11:49:03	Yes
2	0.175	0.175	0.0023	0.0096	0.0024	11:49:33	Yes
Mean:	0.178	0.178	0.0023				
SD:	0.004	0.004	0.0000				
%RSD:	2.197	2.197	1.78				

Sequence No.: 106

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 11:49:53

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.038	5.038	0.0533	0.2265	0.0534	11:50:43	Yes
2	5.002	5.002	0.0529	0.2270	0.0530	11:51:13	Yes
Mean:	5.020	5.020	0.0531				
SD:	0.025	0.025	0.0003				
%RSD:	0.504	0.504	0.50				

QC value within limits for Hg 253.7 Recovery = 100.40%
All analyte(s) passed QC.

Sequence No.: 107

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 11:51:32

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.041	-0.041	0.0000	0.0004	0.0001	11:52:22	Yes
2	-0.041	-0.041	0.0000	0.0005	0.0002	11:52:52	Yes
Mean:	-0.041	-0.041	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.117	0.117	46.35				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 108

Autosampler Location: 92

Sample ID: 1202019741|943299|1

Date Collected: 1/28/2010 11:53:11

Analyst: JXL

Data Type: Original

Replicate Data: 1202019741|943299|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.174	0.174	0.0023	0.0101	0.0024	11:54:03	Yes
2	0.174	0.174	0.0023	0.0102	0.0024	11:54:33	Yes
Mean:	0.174	0.174	0.0023				
SD:	0.000	0.000	0.0000				
%RSD:	0.065	0.065	0.05				

Sequence No.: 109

Autosampler Location: 93

Sample ID: 1202019742|943299|1

Date Collected: 1/28/2010 11:54:53

Analyst: JXL

Data Type: Original

Replicate Data: 1202019742|943299|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.307	2.307	0.0246	0.1058	0.0248	11:55:45	Yes
2	2.306	2.306	0.0246	0.1055	0.0248	11:56:15	Yes
Mean:	2.307	2.307	0.0246				
SD:	0.001	0.001	0.0000				
%RSD:	0.052	0.052	0.05				

Sequence No.: 110

Autosampler Location: 94

Sample ID: 1202019744|943299|1

Date Collected: 1/28/2010 11:56:35

Analyst: JXL

Data Type: Original

Replicate Data: 1202019744|943299|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.339	2.339	0.0250	0.1076	0.0251	11:57:26	Yes
2	2.311	2.311	0.0247	0.1061	0.0248	11:57:56	Yes
Mean:	2.325	2.325	0.0248				
SD:	0.020	0.020	0.0002				
%RSD:	0.841	0.841	0.83				

Sequence No.: 111

Autosampler Location: 95

Sample ID: 1202019743|943299|5

Date Collected: 1/28/2010 11:58:17

Analyst: JXL

Data Type: Original

Replicate Data: 1202019743|943299|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.002	0.002	0.0005	0.0027	0.0006	11:59:08	Yes
2	0.005	0.005	0.0005	0.0027	0.0006	11:59:38	Yes
Mean:	0.004	0.004	0.0005				
SD:	0.002	0.002	0.0000				
%RSD:	50.66	50.66	3.97				

Mean: 0.233 0.233 0.0029
SD: 0.003 0.003 0.0000
%RSD: 1.396 1.396 1.19

Sequence No.: 117
Sample ID: 244622007|943299|1
Analyst: JXL

Autosampler Location: 101
Date Collected: 1/28/2010 12:08:29
Data Type: Original

Replicate Data: 244622007|943299|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.135	0.135	0.0019	0.0083	0.0020	12:09:21	Yes
2	0.140	0.140	0.0019	0.0087	0.0020	12:09:51	Yes
Mean:	0.138	0.138	0.0019				
SD:	0.003	0.003	0.0000				
%RSD:	2.318	2.318	1.78				

Sequence No.: 118
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 1/28/2010 12:10:12
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.996	4.996	0.0528	0.2269	0.0530	12:11:02	Yes
2	5.006	5.006	0.0529	0.2271	0.0531	12:11:32	Yes
Mean:	5.001	5.001	0.0529				
SD:	0.006	0.006	0.0001				
%RSD:	0.129	0.129	0.13				

QC value within limits for Hg 253.7 Recovery = 100.02%
All analyte(s) passed QC.

Sequence No.: 119
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 1/28/2010 12:11:50
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	0.0000	0.0005	0.0002	12:12:41	Yes
2	-0.041	-0.041	-0.0000	0.0007	0.0001	12:13:11	Yes
Mean:	-0.041	-0.041	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.394	2.394	158.66				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120
Sample ID: 244622008|943299|1
Analyst: JXL

Autosampler Location: 102
Date Collected: 1/28/2010 12:13:30
Data Type: Original

Replicate Data: 244622008|943299|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.244	0.244	0.0030	0.0135	0.0031	12:14:22	Yes
2	0.236	0.236	0.0029	0.0128	0.0031	12:14:52	Yes
Mean:	0.240	0.240	0.0030				
SD:	0.006	0.006	0.0001				
%RSD:	2.548	2.548	2.17				

Sequence No.: 121
Sample ID: 1202019751|943305|1

Autosampler Location: 103
Date Collected: 1/28/2010 12:15:12

Sequence No.: 126

Sample ID: 1202019756|943305|1

Analyst: JXL

Autosampler Location: 108

Date Collected: 1/28/2010 12:23:44

Data Type: Original

Replicate Data: 1202019756|943305|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.104	2.104	0.0225	0.0970	0.0226	12:24:35	Yes
2	2.105	2.105	0.0225	0.0962	0.0227	12:25:05	Yes
Mean:	2.105	2.105	0.0225				
SD:	0.001	0.001	0.0000				
%RSD:	0.059	0.059	0.06				

Sequence No.: 127

Sample ID: 1202019755|943305|5

Analyst: JXL

Autosampler Location: 109

Date Collected: 1/28/2010 12:25:26

Data Type: Original

Replicate Data: 1202019755|943305|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.022	-0.022	0.0002	0.0015	0.0004	12:26:17	Yes
2	-0.026	-0.026	0.0002	0.0012	0.0003	12:26:47	Yes
Mean:	-0.024	-0.024	0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	11.82	11.82	15.86				

Sequence No.: 128

Sample ID: 244601002|943305|1

Analyst: JXL

Autosampler Location: 110

Date Collected: 1/28/2010 12:27:08

Data Type: Original

Replicate Data: 244601002|943305|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.240	0.240	0.0030	0.0135	0.0031	12:28:00	Yes
2	0.237	0.237	0.0029	0.0136	0.0031	12:28:30	Yes
Mean:	0.239	0.239	0.0029				
SD:	0.003	0.003	0.0000				
%RSD:	1.064	1.064	0.91				

Sequence No.: 129

Sample ID: 244601003|943305|1

Analyst: JXL

Autosampler Location: 111

Date Collected: 1/28/2010 12:28:50

Data Type: Original

Replicate Data: 244601003|943305|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.218	0.218	0.0027	0.0124	0.0029	12:29:43	Yes
2	0.217	0.217	0.0027	0.0123	0.0029	12:30:13	Yes
Mean:	0.218	0.218	0.0027				
SD:	0.001	0.001	0.0000				
%RSD:	0.325	0.325	0.27				

Sequence No.: 130

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 12:30:33

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.986	4.986	0.0527	0.2266	0.0529	12:31:23	Yes

2 4.997 4.997 0.0528 0.2271 0.0530 12:31:53 Yes
Mean: 4.992 4.992 0.0528
SD: 0.007 0.007 0.0001
%RSD: 0.145 0.145 0.14

QC value within limits for Hg 253.7 Recovery = 99.83%
All analyte(s) passed QC.

Sequence No.: 131

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 12:32:12

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.041	-0.041	0.0000	0.0006	0.0002	12:33:03	Yes
2	-0.045	-0.045	-0.0000	0.0005	0.0001	12:33:33	Yes
Mean:	-0.043	-0.043	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	6.146	6.146	183.45				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 132

Sample ID: 244601004|943305|1

Analyst: JXL

Autosampler Location: 112

Date Collected: 1/28/2010 12:33:52

Data Type: Original

Replicate Data: 244601004|943305|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.401	0.401	0.0046	0.0204	0.0048	12:34:44	Yes
2	0.396	0.396	0.0046	0.0204	0.0047	12:35:14	Yes
Mean:	0.398	0.398	0.0046				
SD:	0.003	0.003	0.0000				
%RSD:	0.848	0.848	0.77				

Sequence No.: 133

Sample ID: 244601005|943305|1

Analyst: JXL

Autosampler Location: 113

Date Collected: 1/28/2010 12:35:35

Data Type: Original

Replicate Data: 244601005|943305|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.347	0.347	0.0041	0.0186	0.0042	12:36:26	Yes
2	0.347	0.347	0.0041	0.0179	0.0042	12:36:56	Yes
Mean:	0.347	0.347	0.0041				
SD:	0.000	0.000	0.0000				
%RSD:	0.037	0.037	0.03				

Sequence No.: 134

Sample ID: 244601006|943305|1

Analyst: JXL

Autosampler Location: 114

Date Collected: 1/28/2010 12:37:17

Data Type: Original

Replicate Data: 244601006|943305|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.251	0.251	0.0031	0.0138	0.0032	12:38:09	Yes
2	0.251	0.251	0.0031	0.0142	0.0032	12:38:38	Yes
Mean:	0.251	0.251	0.0031				
SD:	0.000	0.000	0.0000				
%RSD:	0.028	0.028	0.02				

Sequence No.: 135

Autosampler Location: 115

%RSD: 0.060 0.060 0.05

Sequence No.: 140

Sample ID: 244601012|943305|1

Analyst: JXL

Autosampler Location: 120

Date Collected: 1/28/2010 12:47:33

Data Type: Original

Replicate Data: 244601012|943305|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.258	0.258	0.0031	0.0136	0.0033	12:48:25	Yes
2	0.263	0.263	0.0032	0.0140	0.0033	12:48:55	Yes
Mean:	0.261	0.261	0.0032				
SD:	0.004	0.004	0.0000				
%RSD:	1.524	1.524	1.31				

Sequence No.: 141

Sample ID: 244601013|943305|1

Analyst: JXL

Autosampler Location: 121

Date Collected: 1/28/2010 12:49:15

Data Type: Original

Replicate Data: 244601013|943305|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.340	0.340	0.0040	0.0182	0.0041	12:50:07	Yes
2	0.338	0.338	0.0040	0.0174	0.0041	12:50:37	Yes
Mean:	0.339	0.339	0.0040				
SD:	0.001	0.001	0.0000				
%RSD:	0.352	0.352	0.31				

Sequence No.: 142

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 1/28/2010 12:50:58

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.013	5.013	0.0530	0.2286	0.0531	12:51:48	Yes
2	4.982	4.982	0.0527	0.2268	0.0528	12:52:18	Yes
Mean:	4.998	4.998	0.0528				
SD:	0.022	0.022	0.0002				
%RSD:	0.438	0.438	0.43				

QC value within limits for Hg 253.7 Recovery = 99.95%
All analyte(s) passed QC.

Sequence No.: 143

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 1/28/2010 12:52:37

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.044	-0.044	-0.0000	0.0002	0.0001	12:53:28	Yes
2	-0.046	-0.046	-0.0000	-0.0000	0.0001	12:53:58	Yes
Mean:	-0.045	-0.045	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.775	2.775	34.78				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 144

Sample ID: 1202019757|943309|1

Analyst: JXL

Autosampler Location: 122

Date Collected: 1/28/2010 12:54:17

Data Type: Original

Replicate Data: 1202019757|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.047	-0.047	-0.0001	0.0002	0.0001	12:55:09	Yes
2	-0.053	-0.053	-0.0001	-0.0001	0.0000	12:55:39	Yes
Mean:	-0.050	-0.050	-0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	8.534	8.534	50.39				

Sequence No.: 145

Autosampler Location: 123

Sample ID: 1202019758|943309|10

Date Collected: 1/28/2010 12:56:00

Analyst: JXL

Data Type: Original

Replicate Data: 1202019758|943309|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.615	3.615	0.0383	0.1649	0.0385	12:56:52	Yes
2	3.613	3.613	0.0383	0.1644	0.0385	12:57:22	Yes
Mean:	3.614	3.614	0.0383				
SD:	0.001	0.001	0.0000				
%RSD:	0.037	0.037	0.04				

Sequence No.: 146

Autosampler Location: 124

Sample ID: 244628001|943309|1

Date Collected: 1/28/2010 12:57:43

Analyst: JXL

Data Type: Original

Replicate Data: 244628001|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.203	0.203	0.0026	0.0112	0.0027	12:58:35	Yes
2	0.203	0.203	0.0026	0.0115	0.0027	12:59:05	Yes
Mean:	0.203	0.203	0.0026				
SD:	0.001	0.001	0.0000				
%RSD:	0.268	0.268	0.22				

Sequence No.: 147

Autosampler Location: 125

Sample ID: 1202019759|943309|1

Date Collected: 1/28/2010 12:59:26

Analyst: JXL

Data Type: Original

Replicate Data: 1202019759|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.160	0.160	0.0021	0.0093	0.0023	13:00:18	Yes
2	0.165	0.165	0.0022	0.0099	0.0023	13:00:47	Yes
Mean:	0.162	0.162	0.0021				
SD:	0.004	0.004	0.0000				
%RSD:	2.405	2.405	1.92				

Sequence No.: 148

Autosampler Location: 126

Sample ID: 1202019760|943309|1

Date Collected: 1/28/2010 13:01:08

Analyst: JXL

Data Type: Original

Replicate Data: 1202019760|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.269	2.269	0.0242	0.1039	0.0244	13:02:01	Yes
2	2.261	2.261	0.0241	0.1043	0.0243	13:02:30	Yes
Mean:	2.265	2.265	0.0242				
SD:	0.005	0.005	0.0001				
%RSD:	0.238	0.238	0.23				

Sequence No.: 149
Sample ID: 1202019764|943309|1
Analyst: JXL

Autosampler Location: 127
Date Collected: 1/28/2010 13:02:51
Data Type: Original

Replicate Data: 1202019764|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.222	2.222	0.0237	0.1018	0.0239	13:03:44	Yes
2	2.225	2.225	0.0238	0.1028	0.0239	13:04:14	Yes
Mean:	2.224	2.224	0.0238				
SD:	0.002	0.002	0.0000				
%RSD:	0.093	0.093	0.09				

Sequence No.: 150
Sample ID: 1202019763|943309|5
Analyst: JXL

Autosampler Location: 128
Date Collected: 1/28/2010 13:04:35
Data Type: Original

Replicate Data: 1202019763|943309|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.001	0.001	0.0004	0.0018	0.0006	13:05:27	Yes
2	0.002	0.002	0.0005	0.0023	0.0006	13:05:57	Yes
Mean:	0.001	0.001	0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	15.23	15.23	0.51				

Sequence No.: 151
Sample ID: 244628002|943309|1
Analyst: JXL

Autosampler Location: 129
Date Collected: 1/28/2010 13:06:18
Data Type: Original

Replicate Data: 244628002|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.072	0.072	0.0012	0.0055	0.0013	13:07:10	Yes
2	0.072	0.072	0.0012	0.0056	0.0013	13:07:39	Yes
Mean:	0.072	0.072	0.0012				
SD:	0.000	0.000	0.0000				
%RSD:	0.046	0.046	0.03				

Sequence No.: 152
Sample ID: 244628003|943309|1
Analyst: JXL

Autosampler Location: 130
Date Collected: 1/28/2010 13:08:00
Data Type: Original

Replicate Data: 244628003|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.314	0.314	0.0037	0.0165	0.0039	13:08:52	Yes
2	0.312	0.312	0.0037	0.0160	0.0039	13:09:22	Yes
Mean:	0.313	0.313	0.0037				
SD:	0.001	0.001	0.0000				
%RSD:	0.336	0.336	0.30				

Sequence No.: 153
Sample ID: 244628004|943309|1
Analyst: JXL

Autosampler Location: 131
Date Collected: 1/28/2010 13:09:43
Data Type: Original

Replicate Data: 244628004|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.100	0.100	0.0015	0.0066	0.0016	13:10:35	Yes
2	0.097	0.097	0.0014	0.0066	0.0016	13:11:05	Yes
Mean:	0.099	0.099	0.0015				

SD: 0.003 0.003 0.0000
%RSD: 2.652 2.652 1.87

Sequence No.: 154
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 1/28/2010 13:11:26
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.082	5.082	0.0537	0.2332	0.0539	13:12:17	Yes
2	5.104	5.104	0.0539	0.2332	0.0541	13:12:47	Yes
Mean:	5.093	5.093	0.0538				
SD:	0.015	0.015	0.0002				
%RSD:	0.299	0.299	0.30				

QC value within limits for Hg 253.7 Recovery = 101.86%
All analyte(s) passed QC.

Sequence No.: 155
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 1/28/2010 13:13:05
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.044	-0.044	-0.0000	0.0004	0.0001	13:13:56	Yes
2	-0.045	-0.045	-0.0000	0.0004	0.0001	13:14:26	Yes
Mean:	-0.045	-0.045	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	1.576	1.576	20.73				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 156
Sample ID: 244628005|943309|1
Analyst: JXL

Autosampler Location: 132
Date Collected: 1/28/2010 13:14:45
Data Type: Original

Replicate Data: 244628005|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.020	0.020	0.0006	0.0029	0.0008	13:15:37	Yes
2	0.024	0.024	0.0007	0.0033	0.0008	13:16:07	Yes
Mean:	0.022	0.022	0.0007				
SD:	0.003	0.003	0.0000				
%RSD:	13.95	13.95	4.81				

Sequence No.: 157
Sample ID: 244628006|943309|1
Analyst: JXL

Autosampler Location: 133
Date Collected: 1/28/2010 13:16:28
Data Type: Original

Replicate Data: 244628006|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.471	0.471	0.0054	0.0237	0.0055	13:17:20	Yes
2	0.470	0.470	0.0054	0.0235	0.0055	13:17:50	Yes
Mean:	0.470	0.470	0.0054				
SD:	0.001	0.001	0.0000				
%RSD:	0.211	0.211	0.19				

Sequence No.: 158
Sample ID: 244628007|943309|1
Analyst: JXL

Autosampler Location: 134
Date Collected: 1/28/2010 13:18:11
Data Type: Original

Replicate Data: 244628007|943309|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.457	0.457	0.0052	0.0227	0.0054	13:19:03	Yes
2	0.455	0.455	0.0052	0.0223	0.0053	13:19:33	Yes
Mean:	0.456	0.456	0.0052				
SD:	0.001	0.001	0.0000				
%RSD:	0.300	0.300	0.27				

Sequence No.: 159

Autosampler Location: 135

Sample ID: 244628008|943309|1

Date Collected: 1/28/2010 13:19:54

Analyst: JXL

Data Type: Original

Replicate Data: 244628008|943309|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.386	0.386	0.0045	0.0194	0.0046	13:20:47	Yes
2	0.387	0.387	0.0045	0.0196	0.0046	13:21:17	Yes
Mean:	0.387	0.387	0.0045				
SD:	0.001	0.001	0.0000				
%RSD:	0.227	0.227	0.20				

Sequence No.: 160

Autosampler Location: 136

Sample ID: 244628009|943309|1

Date Collected: 1/28/2010 13:21:38

Analyst: JXL

Data Type: Original

Replicate Data: 244628009|943309|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.291	0.291	0.0035	0.0156	0.0036	13:22:30	Yes
2	0.288	0.288	0.0035	0.0150	0.0036	13:23:00	Yes
Mean:	0.290	0.290	0.0035				
SD:	0.002	0.002	0.0000				
%RSD:	0.654	0.654	0.57				

Sequence No.: 161

Autosampler Location: 137

Sample ID: 244628010|943309|1

Date Collected: 1/28/2010 13:23:21

Analyst: JXL

Data Type: Original

Replicate Data: 244628010|943309|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.458	0.458	0.0052	0.0230	0.0054	13:24:13	Yes
2	0.457	0.457	0.0052	0.0230	0.0054	13:24:43	Yes
Mean:	0.458	0.458	0.0052				
SD:	0.001	0.001	0.0000				
%RSD:	0.114	0.114	0.10				

Sequence No.: 162

Autosampler Location: 138

Sample ID: 244628011|943309|1

Date Collected: 1/28/2010 13:25:04

Analyst: JXL

Data Type: Original

Replicate Data: 244628011|943309|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.089	0.089	0.0014	0.0066	0.0015	13:25:57	Yes
2	0.088	0.088	0.0014	0.0061	0.0015	13:26:27	Yes
Mean:	0.088	0.088	0.0014				
SD:	0.001	0.001	0.0000				
%RSD:	0.907	0.907	0.62				

Sequence No.: 163
Sample ID: 244628012|943309|1
Analyst: JXL

Autosampler Location: 139
Date Collected: 1/28/2010 13:26:48
Data Type: Original

Replicate Data: 244628012|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.158	0.158	0.0021	0.0097	0.0022	13:27:40	Yes
2	0.158	0.158	0.0021	0.0093	0.0022	13:28:10	Yes
Mean:	0.158	0.158	0.0021				
SD:	0.000	0.000	0.0000				
%RSD:	0.209	0.209	0.17				

Sequence No.: 164
Sample ID: 244628013|943309|1
Analyst: JXL

Autosampler Location: 140
Date Collected: 1/28/2010 13:28:31
Data Type: Original

Replicate Data: 244628013|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.130	0.130	0.0018	0.0081	0.0019	13:29:23	Yes
2	0.130	0.130	0.0018	0.0077	0.0020	13:29:53	Yes
Mean:	0.130	0.130	0.0018				
SD:	0.000	0.000	0.0000				
%RSD:	0.042	0.042	0.03				

Sequence No.: 165
Sample ID: 244628014|943309|1
Analyst: JXL

Autosampler Location: 141
Date Collected: 1/28/2010 13:30:14
Data Type: Original

Replicate Data: 244628014|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0007	0.0036	0.0009	13:31:06	Yes
2	0.029	0.029	0.0007	0.0033	0.0009	13:31:36	Yes
Mean:	0.028	0.028	0.0007				
SD:	0.001	0.001	0.0000				
%RSD:	3.720	3.720	1.51				

Sequence No.: 166
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 1/28/2010 13:31:57
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.175	5.175	0.0547	0.2368	0.0548	13:32:48	Yes
2	5.189	5.189	0.0548	0.2361	0.0550	13:33:18	Yes
Mean:	5.182	5.182	0.0548				
SD:	0.010	0.010	0.0001				
%RSD:	0.185	0.185	0.18				

QC value within limits for Hg 253.7 Recovery = 103.64%
All analyte(s) passed QC.

Sequence No.: 167
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 1/28/2010 13:33:36
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	-0.046	-0.046	-0.0000	-0.0003	0.0001	13:34:27	Yes
2	-0.043	-0.043	-0.0000	0.0003	0.0001	13:34:57	Yes
Mean:	-0.045	-0.045	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	4.570	4.570	61.73				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 168

Autosampler Location: 142

Sample ID: 244628015|943309|1

Date Collected: 1/28/2010 13:35:16

Analyst: JXL

Data Type: Original

Replicate Data: 244628015|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.425	0.425	0.0049	0.0216	0.0050	13:36:09	Yes
2	0.425	0.425	0.0049	0.0212	0.0050	13:36:39	Yes
Mean:	0.425	0.425	0.0049				
SD:	0.000	0.000	0.0000				
%RSD:	0.018	0.018	0.02				

Sequence No.: 169

Autosampler Location: 143

Sample ID: 244628016|943309|1

Date Collected: 1/28/2010 13:37:00

Analyst: JXL

Data Type: Original

Replicate Data: 244628016|943309|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.017	0.017	0.0006	0.0030	0.0008	13:37:52	Yes
2	0.010	0.010	0.0005	0.0022	0.0007	13:38:22	Yes
Mean:	0.013	0.013	0.0006				
SD:	0.005	0.005	0.0001				
%RSD:	36.35	36.35	8.83				

Sequence No.: 170

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/28/2010 13:38:43

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.177	5.177	0.0547	0.2382	0.0549	13:39:33	Yes
2	5.185	5.185	0.0548	0.2374	0.0550	13:40:03	Yes
Mean:	5.181	5.181	0.0548				
SD:	0.006	0.006	0.0001				
%RSD:	0.117	0.117	0.12				

QC value within limits for Hg 253.7 Recovery = 103.62%
All analyte(s) passed QC.

Sequence No.: 171

Autosampler Location: 8

Sample ID: CCB

Date Collected: 1/28/2010 13:40:22

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.041	-0.041	0.0000	0.0001	0.0001	13:41:13	Yes
2	-0.047	-0.047	-0.0001	-0.0003	0.0001	13:41:42	Yes
Mean:	-0.044	-0.044	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	9.097	9.097	145.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Miscellaneous

Prep LogBook

Analyst: BXA1
 Batch: 941796
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202015851	U1062540-MS	.507	g
MS	1202015849	U1091015-A	.5	mL
MS	1202015849	U1091015-B	.5	mL
MSD	1202015850	U1091015-A	.5	mL
MSD	1202015850	U1091015-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202015846		SW846 3050B	20-JAN-2010 17:12	0.501 g	50 mL	99.8004	SOIL
LCS	1202015851		SW846 3050B	20-JAN-2010 17:12	0.507 g	50 mL	98.61933	SOIL
SAMPLE	244628001		SW846 3050B	20-JAN-2010 17:12	0.504 g	50 mL	99.20635	SOIL
DUP	1202015847	244628001	SW846 3050B	20-JAN-2010 17:12	0.515 g	50 mL	97.08738	SOIL
SDILT	1202015848	244628001	SW846 3050B	20-JAN-2010 17:12	0.504 g	50 mL	99.20635	SOIL
MS	1202015849	244628001	SW846 3050B	20-JAN-2010 17:12	0.506 g	50 mL	98.81423	SOIL
MSD	1202015850	244628001	SW846 3050B	20-JAN-2010 17:12	0.522 g	50 mL	95.78544	SOIL
SAMPLE	244628002		SW846 3050B	20-JAN-2010 17:12	0.51 g	50 mL	98.03922	SOIL
SAMPLE	244628003		SW846 3050B	20-JAN-2010 17:12	0.506 g	50 mL	98.81423	SOIL
SAMPLE	244628004		SW846 3050B	20-JAN-2010 17:12	0.512 g	50 mL	97.65625	SOIL
SAMPLE	244628005		SW846 3050B	20-JAN-2010 17:12	0.521 g	50 mL	95.96929	SOIL
SAMPLE	244628006		SW846 3050B	20-JAN-2010 17:12	0.509 g	50 mL	98.23183	SOIL
SAMPLE	244628007		SW846 3050B	20-JAN-2010 17:12	0.522 g	50 mL	95.78544	SOIL
SAMPLE	244628008		SW846 3050B	20-JAN-2010 17:12	0.508 g	50 mL	98.4252	SOIL
SAMPLE	244628009		SW846 3050B	20-JAN-2010 17:12	0.512 g	50 mL	97.65625	SOIL
SAMPLE	244628010		SW846 3050B	20-JAN-2010 17:12	0.5 g	50 mL	100	SOIL
SAMPLE	244628011		SW846 3050B	20-JAN-2010 17:12	0.503 g	50 mL	99.40358	SOIL
SAMPLE	244628012		SW846 3050B	20-JAN-2010 17:12	0.502 g	50 mL	99.60159	SOIL
SAMPLE	244628013		SW846 3050B	20-JAN-2010 17:12	0.5 g	50 mL	100	SOIL
SAMPLE	244628014		SW846 3050B	20-JAN-2010 17:12	0.525 g	50 mL	95.2381	SOIL
SAMPLE	244628015		SW846 3050B	20-JAN-2010 17:12	0.516 g	50 mL	96.89922	SOIL
SAMPLE	244628016		SW846 3050B	20-JAN-2010 17:12	0.505 g	50 mL	99.0099	SOIL

Reagent/Solvent Lot ID Amount Description
 1203655-02 1.5 mL Hydrogen Peroxide 30%
 1252836 5 mL Nitric Acid CONC.

Comments sample#244628001 is a brown soil with rocks and artifacts.

Prep LogBook

Analyst: BXA1 Verified by: _____

Batch: 941792

Lab SOP: GL-MA-E-009 REV# 19

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202015840	UI062540-I	.522	g
MS	1202015838	UI091216-01	.25	mL
MS	1202015838	UI091216-06	.25	mL
MSD	1202015839	UI091216-01	.25	mL
MSD	1202015839	UI091216-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202015835		SW846 3050B	20-JAN-2010 17:37	0.509 g	50 mL	98.23183	SOIL
LCS	1202015840		SW846 3050B	20-JAN-2010 17:37	0.522 g	50 mL	95.78544	SOIL
SAMPLE	244628001		SW846 3050B	20-JAN-2010 17:37	0.504 g	50 mL	99.20635	SOIL
DUP	1202015836	244628001	SW846 3050B	20-JAN-2010 17:37	0.52 g	50 mL	96.15385	SOIL
SDILT	1202015837	244628001	SW846 3050B	20-JAN-2010 17:37	0.504 g	50 mL	99.20635	SOIL
MS	1202015838	244628001	SW846 3050B	20-JAN-2010 17:37	0.51 g	50 mL	98.03922	SOIL
MSD	1202015839	244628001	SW846 3050B	20-JAN-2010 17:37	0.513 g	50 mL	97.46589	SOIL
SAMPLE	244628002		SW846 3050B	20-JAN-2010 17:37	0.512 g	50 mL	97.65625	SOIL
SAMPLE	244628003		SW846 3050B	20-JAN-2010 17:37	0.505 g	50 mL	99.0099	SOIL
SAMPLE	244628004		SW846 3050B	20-JAN-2010 17:37	0.512 g	50 mL	97.65625	SOIL
SAMPLE	244628005		SW846 3050B	20-JAN-2010 17:37	0.511 g	50 mL	97.84736	SOIL
SAMPLE	244628006		SW846 3050B	20-JAN-2010 17:37	0.522 g	50 mL	95.78544	SOIL
SAMPLE	244628007		SW846 3050B	20-JAN-2010 17:37	0.508 g	50 mL	98.4252	SOIL
SAMPLE	244628008		SW846 3050B	20-JAN-2010 17:37	0.516 g	50 mL	96.89922	SOIL
SAMPLE	244628009		SW846 3050B	20-JAN-2010 17:37	0.5 g	50 mL	100	SOIL
SAMPLE	244628010		SW846 3050B	20-JAN-2010 17:37	0.507 g	50 mL	98.61933	SOIL
SAMPLE	244628011		SW846 3050B	20-JAN-2010 17:37	0.518 g	50 mL	96.5251	SOIL
SAMPLE	244628012		SW846 3050B	20-JAN-2010 17:37	0.509 g	50 mL	98.23183	SOIL
SAMPLE	244628013		SW846 3050B	20-JAN-2010 17:37	0.5 g	50 mL	100	SOIL
SAMPLE	244628014		SW846 3050B	20-JAN-2010 17:37	0.5 g	50 mL	100	SOIL
SAMPLE	244628015		SW846 3050B	20-JAN-2010 17:37	0.514 g	50 mL	97.27626	SOIL
SAMPLE	244628016		SW846 3050B	20-JAN-2010 17:37	0.5 g	50 mL	100	SOIL

Reagent/Solvent Lot ID	Amount	Description
1252838	10 mL	HYDROCHLORIC ACID
1252836	1.25 mL	Nitric Acid CONC.

Comments: sample#244628001 is a brown soil with artifacts.

Prep LogBook

Analyst: BXA1
 Batch: 950022
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202035553		SW846 3050B	08-FEB-2010 22:48	0.517 g	50 mL	96.7118	.518	g
LCS	1202035554		SW846 3050B	08-FEB-2010 22:48	0.518 g	50 mL	96.5251	.5	mL
SAMPLE	244628001		SW846 3050B	08-FEB-2010 22:48	0.541 g	50 mL	92.42144	.5	mL
DUP	1202015847	244628001	SW846 3050B	08-FEB-2010 22:48	0.524 g	50 mL	95.41985	.5	mL
SDILT	1202015848	244628001	SW846 3050B	08-FEB-2010 22:48	0.541 g	50 mL	92.42144	.5	mL
MS	1202015849	244628001	SW846 3050B	08-FEB-2010 22:48	0.523 g	50 mL	95.60229	.5	mL
MSD	1202015850	244628001	SW846 3050B	08-FEB-2010 22:48	0.504 g	50 mL	99.20635	.5	mL
SAMPLE	244628002		SW846 3050B	08-FEB-2010 22:48	0.552 g	50 mL	90.57971	.5	mL
SAMPLE	244628003		SW846 3050B	08-FEB-2010 22:48	0.525 g	50 mL	95.2381	.5	mL
SAMPLE	244628004		SW846 3050B	08-FEB-2010 22:48	0.512 g	50 mL	97.65625	.5	mL
SAMPLE	244628005		SW846 3050B	08-FEB-2010 22:48	0.539 g	50 mL	92.76438	.5	mL
SAMPLE	244628006		SW846 3050B	08-FEB-2010 22:48	0.501 g	50 mL	99.8004	.5	mL
SAMPLE	244628007		SW846 3050B	08-FEB-2010 22:48	0.538 g	50 mL	92.9368	.5	mL
SAMPLE	244628008		SW846 3050B	08-FEB-2010 22:48	0.518 g	50 mL	96.5251	.5	mL
SAMPLE	244628009		SW846 3050B	08-FEB-2010 22:48	0.5 g	50 mL	100	.5	mL
SAMPLE	244628010		SW846 3050B	08-FEB-2010 22:48	0.533 g	50 mL	93.80863	.5	mL
SAMPLE	244628011		SW846 3050B	08-FEB-2010 22:48	0.5 g	50 mL	100	.5	mL
SAMPLE	244628012		SW846 3050B	08-FEB-2010 22:48	0.5 g	50 mL	100	.5	mL
SAMPLE	244628013		SW846 3050B	08-FEB-2010 22:48	0.554 g	50 mL	90.25271	.5	mL
SAMPLE	244628014		SW846 3050B	08-FEB-2010 22:48	0.547 g	50 mL	91.40768	.5	mL
SAMPLE	244628015		SW846 3050B	08-FEB-2010 22:48	0.537 g	50 mL	93.10987	.5	mL
SAMPLE	244628016		SW846 3050B	08-FEB-2010 22:48	0.546 g	50 mL	91.57509	.5	mL

Comments: sample#244628001 is a brown, medium soil.

Reagent/Solvent Lot ID Amount Description
 1203655-02 1.5 mL Hydrogen Peroxide 30%
 1264396 5 mL Nitric Acid CONC.

Prep LogBook

Analyst: BXA1
 Batch: 950666
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202037291	UI062540-I	.549	g
MS	1202015838	UI100120-01	.25	mL
MS	1202015838	UI100120-06	.25	mL
MSD	1202015839	UI100120-01	.25	mL
MSD	1202015839	UI100120-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202037290		SW846 3050B	08-FEB-2010 23:19	0.518 g	50 mL	96.5251	SOIL
LCS	1202037291		SW846 3050B	08-FEB-2010 23:19	0.549 g	50 mL	91.07468	SOIL
SAMPLE	244628001		SW846 3050B	08-FEB-2010 23:19	0.584 g	50 mL	85.61644	SOIL
DUP	1202015836	244628001	SW846 3050B	08-FEB-2010 23:19	0.513 g	50 mL	97.46589	SOIL
SDILT	1202015837	244628001	SW846 3050B	08-FEB-2010 23:19	0.584 g	50 mL	85.61644	SOIL
MS	1202015838	244628001	SW846 3050B	08-FEB-2010 23:19	0.5 g	50 mL	100	SOIL
MSD	1202015839	244628001	SW846 3050B	08-FEB-2010 23:19	0.577 g	50 mL	86.65511	SOIL
SAMPLE	244628002		SW846 3050B	08-FEB-2010 23:19	0.508 g	50 mL	98.4252	SOIL
SAMPLE	244628003		SW846 3050B	08-FEB-2010 23:19	0.557 g	50 mL	89.76661	SOIL
SAMPLE	244628004		SW846 3050B	08-FEB-2010 23:19	0.508 g	50 mL	98.4252	SOIL
SAMPLE	244628005		SW846 3050B	08-FEB-2010 23:19	0.587 g	50 mL	85.17888	SOIL
SAMPLE	244628006		SW846 3050B	08-FEB-2010 23:19	0.514 g	50 mL	97.27626	SOIL
SAMPLE	244628007		SW846 3050B	08-FEB-2010 23:19	0.509 g	50 mL	98.23183	SOIL
SAMPLE	244628008		SW846 3050B	08-FEB-2010 23:19	0.554 g	50 mL	90.25271	SOIL
SAMPLE	244628009		SW846 3050B	08-FEB-2010 23:19	0.585 g	50 mL	85.47009	SOIL
SAMPLE	244628010		SW846 3050B	08-FEB-2010 23:19	0.522 g	50 mL	95.78544	SOIL
SAMPLE	244628011		SW846 3050B	08-FEB-2010 23:19	0.551 g	50 mL	90.7441	SOIL
SAMPLE	244628012		SW846 3050B	08-FEB-2010 23:19	0.518 g	50 mL	96.5251	SOIL
SAMPLE	244628013		SW846 3050B	08-FEB-2010 23:19	0.575 g	50 mL	86.95652	SOIL
SAMPLE	244628014		SW846 3050B	08-FEB-2010 23:19	0.504 g	50 mL	99.20635	SOIL
SAMPLE	244628015		SW846 3050B	08-FEB-2010 23:19	0.542 g	50 mL	92.25092	SOIL
SAMPLE	244628016		SW846 3050B	08-FEB-2010 23:19	0.547 g	50 mL	91.40768	SOIL

Reagent/Solvent Lot ID Amount Description
 1265209 10 mL HYDROCHLORIC ACID
 1264396 1.25 mL Nitric Acid CONC.

Comments: sample#244628001 is a clumpy, brown soil with rocks and organic matter.

Prep LogBook

Analyst: TXB3 Verified by: _____
 Batch: 943308
 Lab SOP: GL-MA-E-010 REV# 23

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202019757		SW846 7471A Prep	27-JAN-2010 13:25	0.576 g	30 mL	52.08333	SOIL	g
LCS	1202019758		SW846 7471A Prep	27-JAN-2010 13:25	0.202 g	30 mL	148.51485	SOIL	mL
SAMPLE	244628001		SW846 7471A Prep	27-JAN-2010 13:25	0.526 g	30 mL	57.03422	SOIL	mL
DUP	1202019759	244628001	SW846 7471A Prep	27-JAN-2010 13:25	0.535 g	30 mL	56.07477	SOIL	mL
MS	1202019760	244628001	SW846 7471A Prep	27-JAN-2010 13:25	0.578 g	30 mL	51.90311	SOIL	mL
MSD	1202019764	244628001	SW846 7471A Prep	27-JAN-2010 13:25	0.504 g	30 mL	59.52381	SOIL	mL
SDILT	1202019763	244628001	SW846 7471A Prep	27-JAN-2010 13:25	0.526 g	30 mL	57.03422	SOIL	mL
SAMPLE	244628002		SW846 7471A Prep	27-JAN-2010 13:25	0.529 g	30 mL	56.71078	SOIL	mL
SAMPLE	244628003		SW846 7471A Prep	27-JAN-2010 13:25	0.544 g	30 mL	55.14706	SOIL	mL
SAMPLE	244628004		SW846 7471A Prep	27-JAN-2010 13:25	0.578 g	30 mL	51.90311	SOIL	mL
SAMPLE	244628005		SW846 7471A Prep	27-JAN-2010 13:25	0.507 g	30 mL	59.1716	SOIL	mL
SAMPLE	244628006		SW846 7471A Prep	27-JAN-2010 13:25	0.515 g	30 mL	58.25243	SOIL	mL
SAMPLE	244628007		SW846 7471A Prep	27-JAN-2010 13:25	0.533 g	30 mL	56.28518	SOIL	mL
SAMPLE	244628008		SW846 7471A Prep	27-JAN-2010 13:25	0.587 g	30 mL	51.10733	SOIL	mL
SAMPLE	244628009		SW846 7471A Prep	27-JAN-2010 13:25	0.556 g	30 mL	53.95683	SOIL	mL
SAMPLE	244628010		SW846 7471A Prep	27-JAN-2010 13:25	0.561 g	30 mL	53.47594	SOIL	mL
SAMPLE	244628011		SW846 7471A Prep	27-JAN-2010 13:25	0.572 g	30 mL	52.44755	SOIL	mL
SAMPLE	244628012		SW846 7471A Prep	27-JAN-2010 13:25	0.585 g	30 mL	51.28205	SOIL	mL
SAMPLE	244628013		SW846 7471A Prep	27-JAN-2010 13:25	0.544 g	30 mL	55.14706	SOIL	mL
SAMPLE	244628014		SW846 7471A Prep	27-JAN-2010 13:25	0.509 g	30 mL	58.9391	SOIL	mL
SAMPLE	244628015		SW846 7471A Prep	27-JAN-2010 13:25	0.584 g	30 mL	51.36986	SOIL	mL
SAMPLE	244628016		SW846 7471A Prep	27-JAN-2010 13:25	0.503 g	30 mL	59.64215	SOIL	mL

Comments: Sample 244628001 is a brown dry rocky soil.
 Digestion Start Date: 27-JAN-10 13:25
 Digestion End Date: 27-JAN-10 13:55

Reagent/Solvent Lot ID	Amount	Description
1236355-A	1.125 mL	Hydrochloric Acid Conc.
1257474-1	.375 mL	NITRIC ACID
1255535-C	7.5 mL	5% KMnO4 solution
1255532-C	2 mL	Hg reducing agent
WHG100127-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100127-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100127-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100127-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100127-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV

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Prep LogBook

WHG100127-12 750 uL Mercury Working 2nd Source S 5.0/ICV

DATA EXCEPTION REPORT

Mo.Day Yr. 07-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP/MS	Test / Method: SW846 3050B/6020	Matrix Type: Solid	Client Code: LANL
Batch ID: 941798	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 244628(10-1226) Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements		DER Disposition:	
Exception Description: 1. Failed Recovery for MS/PS: QC 1202015849MS 2. Failed Recovery for MSD/PSD: QC 1202015850MSD		The matrix spike failed outside of the control limits for Se and Tl. The matrix spike duplicate failed outside of the control limits for Se and Be due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOP's, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Rose Jenkins

07-FEB-10

Data Validator/Group Leader:

Samantha Jacobs

09-FEB-10

DATA EXCEPTION REPORT

Mo. Day Yr. 08-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 941795	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 244628(10-1226) Application Issues: Failed RPD for DUP			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed RPD for DUP: QC 1202015836DUP		1. The sample and sample duplicate % RPD failed outside the control limits for aluminum, potassium and zinc due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Helen Camello 08-FEB-10

Data Validator/Group Leader:

Christopher Louviere 09-FEB-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 Opened: 01-JUL-09 Amount : 250 mL
 Name: ICP-MS CRDL Master #2 Received: 01-JUL-09 Catalog Number : 160044-08-02
 Type: Source Material Expires: 01-JUL-10 Lot Number : 1016476
 Employee: Paul Boyd Solvent : +/- 0.5% IN 2% HNO3
 Supplier: 02SI
 Description: ICPMS CRDL Soln #2
 Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 Opened: 01-JUL-09 Amount : 500 mL
 Name: TRACE ICP Stock PQL St Received: 30-JUN-09 Catalog Number : 160543-01-03
 Type: Source Material Expires: 01-JUL-10 Lot Number : 1016475
 Employee: Helen Camello Solvent : +/-0.5%in2%HNO3+TrHF
 Supplier: 02si
 Description: TRACE ICP Stock PQL Standard
 Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 02SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount:** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number:** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number:** 1017581
Employee: Helen Camello **Solvent:** 0.3% H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L +/- 0.3% in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091015-A **Opened:** 15-OCT-09 **Catalog Number:** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number:** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: o2si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI091015-B **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Serial ID: UI091212-61 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Standard Logbook

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: UI091216-01 **Opened:** 16-DEC-09 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI091216-06 **Opened:** 16-DEC-09 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Standard Logbook

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI100114-48 **Opened:** 22-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 18-JAN-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 22-JAN-11 **Lot Number :** 1018466
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100114-49.14 **Opened:** 09-FEB-10 **Amount :** 100 ml
Name: Trace ICP ICSAB **Received:** 18-JAN-10 **Catalog Number :** 160066-04
Type: Source Material **Expires:** 10-FEB-10 **Lot Number :** 1018458
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Inteferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI100120-01 **Opened:** 20-JAN-10 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100120-06 **Opened:** 20-JAN-10 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: 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: UI100126-11 **Opened:** 26-JAN-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 26-JAN-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 26-JAN-11 **Lot Number :** 1018321
Employee: Elizabeth Janssen **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Serial ID: UI100128-40 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Standard Logbook

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: UI100128-41 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: Q2SI
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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

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: IHG100127-01 **Opened:** 27-JAN-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 27-JAN-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 28-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.	Allquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: IHG100127-02 **Opened:** 27-JAN-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 28-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: WHG100127-07 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2CRA **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100127-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100127-08 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.5 **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100127-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100127-09 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2.0 **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100127-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Standard Logbook

Serial ID: WHG100127-10 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
IHG100127-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100127-11 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL S 10.0
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
IHG100127-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100127-12 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 2nd Source S 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
IHG100127-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100127-14 **Opened:** 27-JAN-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 27-JAN-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 03-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: WI100129-42 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1259494
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100129-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100129-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100129-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100129-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100129-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100129-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100129-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Serial ID: WI100129-43 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1259494
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	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
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Serial ID: WI100129-44 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1 %HNO3-1259494
Employee: Helen Camello
Supplier: o2sl
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Serial ID: WI100129-45 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1259494
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	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: WI100129-46 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1259494
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100129-47 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL &1%HNO3-1259494
Employee: Helen Camello
Supplier: 02sl
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WI100209-43 **Opened:** 09-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1266496
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WMS100130-04AB **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 30-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100130-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100130-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100130-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100130-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100130-04B **Opened:** 30-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 30-JAN-10 **Balance Id :** 40245216
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1259290
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100130-05B **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 30-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100130-06B **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 30-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: WMS100130-07B **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 30-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1259290
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100130-08B **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 30-JAN-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100206-04AB **Opened:** 06-FEB-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 06-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 07-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100206-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100206-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100206-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100206-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100206-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100206-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100206-04B **Opened:** 06-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 06-FEB-10 **Balance Id :** 40245216
Type: Working **Expires:** 07-FEB-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1262930
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100206-05B **Opened:** 06-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 06-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 07-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100206-06B **Opened:** 06-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 06-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 07-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100206-07B **Opened:** 06-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 06-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 07-FEB-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1262930
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100206-08B **Opened:** 06-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 06-FEB-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 07-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100208-04AB **Opened:** 08-FEB-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 08-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 09-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100208-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100208-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100208-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100208-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100208-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100208-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100208-04B Opened: 08-FEB-10 Amount : 50 mL
 Name: ICPMS Cal Standard 100 Received: 08-FEB-10 Balance Id : 40245216
 Type: Working Expires: 09-FEB-10 Pipet Id : 1758088
 Employee: Rose Jenkins Solvent : 2%HNO3/1%HCl- 1266278
 Supplier: GEL
 Description: ICPMS Calibration Standard (100 ppb)
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100208-05B **Opened:** 08-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 08-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 09-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100208-06B Opened: 08-FEB-10 Balance Id : 40245216
 Name: ICPMS CRDL Received: 08-FEB-10 Pipet Id : 3820544
 Type: Working Expires: 09-FEB-10 Solvent : 2%HNO3/1%HCl - 1266278
 Employee: Rose Jenkins
 Supplier: GEL
 Description: ICPMS CRDL
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100208-07B **Opened:** 08-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 08-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 09-FEB-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1266278
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100208-08B **Opened:** 08-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 08-FEB-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 09-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100208-70B **Opened:** 08-FEB-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 08-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 09-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100209-04 **Opened:** 09-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 09-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 10-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1266278
Supplier: GEL

Standard Logbook

Description: ICPMS Calibration Standard (100 ppb)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100209-04A

Opened: 09-FEB-10

Balance Id :

4025216

Name: ICPMS Cal Standard 10

Received: 09-FEB-10

Pipet Id :

3541598

Type: Working

Expires: 10-FEB-10

Solvent :

2%HNO3/1%HCl - 1266278

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS Calibration Standard (10 ppb)

Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WMS100209-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100209-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100209-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100209-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100209-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100209-05 Opened: 09-FEB-10 Balance Id : 40245216
 Name: ICPMS ICV Received: 09-FEB-10 Pipet Id : 3541598
 Type: Working Expires: 10-FEB-10 Solvent : 2%HNO3/1%HCl - 1266278
 Employee: Paul Boyd
 Supplier: GEL
 Description: ICPMS ICV
 Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100209-06 **Opened:** 09-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 09-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 10-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100209-07 Opened: 09-FEB-10 Balance Id : 40245216
 Name: ICPMS ICSA Received: 09-FEB-10 Lot Number : 1010773
 Type: Working Expires: 10-FEB-10 Pipet Id : 3541598
 Employee: Paul Boyd Solvent : 2%HNO3/1%HCl - 1266278
 Supplier: GEL
 Description: ICPMS ICSA
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100209-08 **Opened:** 09-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 09-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 10-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: 1156689-A Opened: 20-JUL-09 Lot Number : 41226920
 Name: B-KMnO4(VWR)-MER Received: 20-JUL-09
 Type: Reagent/Solvent Expires: 20-JUL-10
 Employee: Tara Griffin Verified: 07-AUG-07
 Supplier: VWR
 Description: Potassium Permanganate
 Comments: None

Serial ID: 1203655-02 Opened: 15-OCT-09 Lot Number : ZU74081198 mL
 Name: B-H2O2 Received: 15-OCT-09
 Type: Reagent/Solvent Expires: 15-OCT-10
 Employee: Francena Armstrong
 Supplier: EM SCIENCE
 Description: Hydrogen Peroxide 30%
 Comments: None

Serial ID: 1228372-A Opened: 12-NOV-09 Lot Number : 49215936
 Name: B-NH2OH.HCl-MER Received: 12-NOV-09
 Type: Reagent/Solvent Expires: 12-NOV-10
 Employee: Tara Griffin
 Supplier: Fisher Scientific
 Description: Hydroxylamine Hydrochloride
 Comments: None

Serial ID: 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: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 08-JAN-10
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H41032
Name: I-HCL **Received:** 08-JAN-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 125532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 125535-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID

Standard Logbook

Comments: None

Serial ID: 1259290 Opened: 25-JAN-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCl-ICPMS Received: 25-JAN-10
 Type: Reagent/Solvent Expires: 01-FEB-10
 Employee: Elizabeth Janssen
 Supplier: GEL
 Description: 2%HNO3/1%HCl Solution (Type I Water)
 Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1259494 Opened: 25-JAN-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 28-DEC-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 31-JAN-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

Serial ID: 1262930 Opened: 01-FEB-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCl-ICPMS Received: 01-FEB-10
 Type: Reagent/Solvent Expires: 08-FEB-10
 Employee: Elizabeth Janssen
 Supplier: GEL
 Description: 2%HNO3/1%HCl Solution (Type I Water)
 Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1264396 Opened: 03-FEB-10 Lot Number : H51025 L
 Name: I-HNO3 Received: 02-FEB-10
 Type: Reagent/Solvent Expires: 03-FEB-11
 Employee: Bryan Davis
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Standard Logbook

Serial ID: 1265209 **Opened:** 04-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 04-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Bryan Davis
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1266278 **Opened:** 08-FEB-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCL-ICPMS **Received:** 08-FEB-10
Type: Reagent/Solvent **Expires:** 15-FEB-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCL Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1266496 **Opened:** 08-FEB-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 20-JAN-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 14-FEB-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 10-1226**

Method/Analysis Information

Product: Cyanide, Total

Analytical Batch: 941967 and 941971 **Method:** SW846 9012A

Prep Batch : 941966 and 941970 **Method:** SW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
244628001	RE12-10-7262
244628002	RE12-10-7266
244628003	RE12-10-7258
244628004	RE12-10-7268
244628005	RE12-10-7265
244628006	RE12-10-7261
244628007	RE12-10-7259
244628008	RE12-10-7263
244628009	RE12-10-7271
244628010	RE12-10-7260
244628011	RE12-10-7267
244628012	RE12-10-7264
244628013	RE12-10-7270
244628014	RE12-10-7269
244628015	RE12-10-7283
244628016	RE12-10-7282
1202016404	Method Blank (MB)
1202016405	244601005(RE12-10-7239) Sample Duplicate (DUP)
1202016406	244601006(RE12-10-7238) Sample Duplicate (DUP)
1202016407	244601005(RE12-10-7239) Matrix Spike (MS)
1202016408	244601006(RE12-10-7238) Matrix Spike (MS)
1202016409	244601005(RE12-10-7239) Matrix Spike Duplicate (MSD)
1202016410	244601006(RE12-10-7238) Matrix Spike Duplicate (MSD)
1202016411	Laboratory Control Sample (LCS)
1202016428	Method Blank (MB)
1202016429	244628010(RE12-10-7260) Sample Duplicate (DUP)
1202016430	244628010(RE12-10-7260) Matrix Spike (MS)
1202016431	244628010(RE12-10-7260) Matrix Spike Duplicate (MSD)
1202016432	Laboratory Control Sample (LCS)
1202017516	244612001(RE16-10-2783) Sample Duplicate (DUP)
1202017517	244612001(RE16-10-2783) Matrix Spike (MS)
1202017518	244612001(RE16-10-2783) 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 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) Designation

The following samples were selected for QC analysis: 244601005 (RE12-10-7239), 244601006 (RE12-10-7238)- Batch 941967, 244612001 (RE16-10-2783) and 244628010 (RE12-10-7260)- Batch 941971.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202016405 (RE12-10-7239), 1202016406 (RE12-10-7238)- Batch 941967, 1202016429 (RE12-10-7260), 1202017516 (RE16-10-2783) and 244628010 (RE12-10-7260)- Batch 941971.

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 samples in this sample group were diluted due to high concentration: 1202016411 (LCS)- Batch 941967 and 1202016432 (LCS)- Batch 941971.

Sample Re-analysis

The following samples were re-analyzed due to CCV failure: 1202016404 (MB), 1202016411 (LCS), 244628001 (RE12-10-7262), 244628002 (RE12-10-7266) and 244628003 (RE12-10-7258)- Batch 941967.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer:  Date: 04Feb10

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: 10-1226 GEL Work Order: 244628

The Qualifiers in this report are defined as follows:

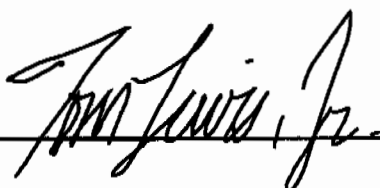
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

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: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7262
Sample ID: 244628001
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 8.86%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.6	274	ug/kg	1	AXC2	01/21/10	1216	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7266
Sample ID: 244628002
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 19.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	84.7	311	ug/kg	1	AXC2	01/21/10	1216	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7258
Sample ID: 244628003
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 14.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	79.3	292	ug/kg	1	AXC2	01/21/10	1217	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7268
Sample ID: 244628004
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 9.81%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.4	277	ug/kg	1	AXC2	01/21/10	1222	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7265
Sample ID: 244628005
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.16%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.5	266	ug/kg	1	AXC2	01/21/10	1223	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7261
Sample ID: 244628006
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
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 "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.4	288	ug/kg	1	AXC2	01/21/10	1224	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7259
Sample ID: 244628007
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.49%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.7	267	ug/kg	1	AXC2	01/21/10	1225	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7263
Sample ID: 244628008
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 5.59%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.0	265	ug/kg	1	AXC2	01/21/10	1225	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7271
Sample ID: 244628009
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 7.57%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	01/21/10	1226	941967	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/20/10	1551	941966

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7260
Sample ID: 244628010
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 19.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	119	84.9	312	ug/kg	1	AXC2	01/21/10	1052	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7267
Sample ID: 244628011
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 7.12%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.6	245	ug/kg	1	AXC2	01/21/10	1056	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7264
Sample ID: 244628012
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 11%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.8	260	ug/kg	1	AXC2	01/21/10	1057	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7270
Sample ID: 244628013
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 12.5%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	73.3	269	ug/kg	1	AXC2	01/21/10	1058	941971	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7269
Sample ID: 244628014
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	64.6	237	ug/kg	1	AXC2	01/21/10	1058	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7283
Sample ID: 244628015
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 18.2%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	J	124	83.1	306	ug/kg	1	AXC2	01/21/10	1059	941971	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 1, 2010

Client SDG: 10-1226

Client Sample ID: RE12-10-7282
Sample ID: 244628016
Matrix: R
Collect Date: 08-JAN-10 12:00
Receive Date: 13-JAN-10
Collector: Client
Moisture: 6.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	65.9	242	ug/kg	1	AXC2	01/21/10	1100	941971	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/19/10	1508	941970

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

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QC Summary

Report Date: February 1, 2010

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Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 244628

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	941967										
QC1202016405	244601005	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	01/21/10	11:36
QC1202016406	244601006	DUP									
Cyanide, Total		J	186	U	ND	ug/kg	200 ^			01/21/10	11:39
QC1202016411	LCS										
Cyanide, Total	67900				78000	ug/kg	110	(46%-145%)		01/21/10	11:30
QC1202016404	MB										
Cyanide, Total				U	250	ug/kg				01/21/10	11:29
QC1202016407	244601005	MS									
Cyanide, Total	5510	U	ND		5730	ug/kg	104	(50%-130%)		01/21/10	11:36
QC1202016408	244601006	MS									
Cyanide, Total	6000	J	186		5700	ug/kg	91.9	(50%-130%)		01/21/10	11:40
QC1202016409	244601005	MSD									
Cyanide, Total	5510	U	ND		6010	ug/kg	4.69	109	(0%-30%)	01/21/10	11:37
QC1202016410	244601006	MSD									
Cyanide, Total	6000	J	186		5830	ug/kg	2.29	94.1	(0%-30%)	01/21/10	11:41
Batch	941971										
QC1202016429	244628010	DUP									
Cyanide, Total		J	119	J	202	ug/kg	52.0 ^	(+/-294)	AXC2	01/21/10	10:53
QC1202017516	244612001	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			01/21/10	10:43
QC1202016432	LCS										
Cyanide, Total	67900				79000	ug/kg	116	(46%-145%)		01/21/10	10:41
QC1202016428	MB										
Cyanide, Total				U	250	ug/kg				01/21/10	10:40
QC1202016430	244628010	MS									
Cyanide, Total	5890	J	119		5380	ug/kg	89.4	(50%-130%)		01/21/10	10:54
QC1202017517	244612001	MS									
Cyanide, Total	5280	U	ND		5760	ug/kg	109	(50%-130%)		01/21/10	10:43
QC1202016431	244628010	MSD									
Cyanide, Total	6240	J	119		6180	ug/kg	13.9	97.2	(0%-30%)	01/21/10	10:55
QC1202017518	244612001	MSD									
Cyanide, Total	5600	U	ND		5990	ug/kg	3.97	107	(0%-30%)	01/21/10	10:44

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

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QC Summary

Workorder: 244628

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.										
BD	Results are either below the MDC or tracer recovery is low										
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
E	Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
E	Organics--Concentration of the target analyte exceeds the instrument calibration range										
F	Estimated Value										
H	Analytical holding time was exceeded										
J	Value is estimated										
M	M if above MDC and less than LLD										
M	Matrix Related Failure										
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
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: 01-FEB-2010 14:47

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1226

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	21-JAN-2010 10:34:52	OM_1-21-2010_10-24-21	158	150	105	(90%-110%)	Yes
CCV	21-JAN-2010 10:49:09	OM_1-21-2010_10-24-21	104	100	104	(90%-110%)	Yes
CCV	21-JAN-2010 11:01:36	OM_1-21-2010_10-24-21	107	100	107	(90%-110%)	Yes
CCV	21-JAN-2010 11:19:02	OM_1-21-2010_11-18-16	101	100	101	(90%-110%)	Yes
CCV	21-JAN-2010 11:31:25	OM_1-21-2010_11-18-16	96.4	100	96	(90%-110%)	Yes
CCV	21-JAN-2010 11:43:57	OM_1-21-2010_11-18-16	96.2	100	96	(90%-110%)	Yes
CCV	21-JAN-2010 12:06:14	OM_1-21-2010_12-04-42	99.6	100	100	(90%-110%)	Yes
CCV	21-JAN-2010 12:18:43	OM_1-21-2010_12-04-42	99.7	100	100	(90%-110%)	Yes
CCV	21-JAN-2010 12:31:09	OM_1-21-2010_12-04-42	96.1	100	96	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	21-JAN-2010 10:36:42	OM_1-21-2010_10-24-21	-2.4	5	Yes
CCB	21-JAN-2010 10:51:00	OM_1-21-2010_10-24-21	-0.243	5	Yes
CCB	21-JAN-2010 11:03:26	OM_1-21-2010_10-24-21	1.15	5	Yes
CCB	21-JAN-2010 11:20:52	OM_1-21-2010_11-18-16	0.746	5	Yes
CCB	21-JAN-2010 11:33:16	OM_1-21-2010_11-18-16	0.324	5	Yes
CCB	21-JAN-2010 11:45:47	OM_1-21-2010_11-18-16	0.353	5	Yes
CCB	21-JAN-2010 12:08:05	OM_1-21-2010_12-04-42	0.791	5	Yes
CCB	21-JAN-2010 12:20:34	OM_1-21-2010_12-04-42	0.209	5	Yes
CCB	21-JAN-2010 12:32:59	OM_1-21-2010_12-04-42	1.1	5	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5
 Batch: 941970
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202016432	URF1200957-01	.25	g
MS	1202016430	URF1184831-02	.025	mL
MS	1202017517	URF1184831-02	.025	mL
MSD	1202016431	URF1184831-02	.025	mL
MSD	1202017518	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202016428		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
LCS	1202016432		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.25 g	25 mL	100	SOIL
SAMPLE	244612001		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.57 g	25 mL	43.85965	SOIL
DUP	1202017516	244612001	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
MS	1202017517	244612001	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
MSD	1202017518	244612001	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
SAMPLE	244619001		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	244619003		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	244622001		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	244622002		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	244628010		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
DUP	1202016429	244628010	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
MS	1202016430	244628010	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
MSD	1202016431	244628010	SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
SAMPLE	244628011		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	244628012		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	244628013		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	244628014		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	244628015		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
SAMPLE	244628016		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	244721001		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	244721002		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	244721003		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
SAMPLE	244721004		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL
SAMPLE	244721005		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	244721006		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	244721007		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	244721008		SW846 9010B Prep	19-JAN-2010 15:08	>12	0.5 g	25 mL	50	SOIL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100119-07	.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	

Prep LogBook

Analyst: AXS5
Batch: 941966
Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202016404		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.25	g
LCS	1202016411		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.25 g	25 mL	100	.025	mL
SAMPLE	244601005		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
DUP	1202016405	244601005	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
MS	1202016407	244601005	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
MSD	1202016409	244601005	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601006		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
DUP	1202016406	244601006	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
MS	1202016408	244601006	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
MSD	1202016410	244601006	SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601007		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601008		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601009		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601010		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601011		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601012		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244601013		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244604001		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244604002		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628001		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628002		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628003		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628004		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628005		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628006		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628007		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628008		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	244628009		SW846 9010B Prep	20-JAN-2010 15:51	>12	0.5 g	25 mL	50	.025	mL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100119-07	.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	1/21/2010 10:27:43	OM_1-21-2010_10-24-21
150 ppb		1	axc2	1/21/2010 10:28:35	OM_1-21-2010_10-24-21
100 ppb		1	axc2	1/21/2010 10:29:27	OM_1-21-2010_10-24-21
50 ppb		1	axc2	1/21/2010 10:30:20	OM_1-21-2010_10-24-21
10 ppb		1	axc2	1/21/2010 10:31:13	OM_1-21-2010_10-24-21
CRDL 5.0 ppb		1	axc2	1/21/2010 10:32:07	OM_1-21-2010_10-24-21
ICAL-00		1	axc2	1/21/2010 10:33:01	OM_1-21-2010_10-24-21
ICV		1	axc2	1/21/2010 10:34:52	OM_1-21-2010_10-24-21
ICB		1	axc2	1/21/2010 10:36:42	OM_1-21-2010_10-24-21
CRDL		1	axc2	1/21/2010 10:38:32	OM_1-21-2010_10-24-21
1202016428	941971	1	axc2	1/21/2010 10:40:22	OM_1-21-2010_10-24-21
1202016432	941971	25	axc2	1/21/2010 10:41:15	OM_1-21-2010_10-24-21
244612001	941971	1	axc2	1/21/2010 10:42:08	OM_1-21-2010_10-24-21
1202017516	941971	1	axc2	1/21/2010 10:43:01	OM_1-21-2010_10-24-21
1202017517	941971	1	axc2	1/21/2010 10:43:54	OM_1-21-2010_10-24-21
1202017518	941971	1	axc2	1/21/2010 10:44:47	OM_1-21-2010_10-24-21
244619001	941971	1	axc2	1/21/2010 10:45:40	OM_1-21-2010_10-24-21
244619003	941971	1	axc2	1/21/2010 10:46:33	OM_1-21-2010_10-24-21
244622001	941971	1	axc2	1/21/2010 10:47:25	OM_1-21-2010_10-24-21
244622002	941971	1	axc2	1/21/2010 10:48:17	OM_1-21-2010_10-24-21
CCV		1	axc2	1/21/2010 10:49:09	OM_1-21-2010_10-24-21
CCB		1	axc2	1/21/2010 10:51:00	OM_1-21-2010_10-24-21
244628010	941971	1	axc2	1/21/2010 10:52:48	OM_1-21-2010_10-24-21
1202016429	941971	1	axc2	1/21/2010 10:53:40	OM_1-21-2010_10-24-21
1202016430	941971	1	axc2	1/21/2010 10:54:33	OM_1-21-2010_10-24-21
1202016431	941971	1	axc2	1/21/2010 10:55:24	OM_1-21-2010_10-24-21
244628011	941971	1	axc2	1/21/2010 10:56:15	OM_1-21-2010_10-24-21
244628012	941971	1	axc2	1/21/2010 10:57:09	OM_1-21-2010_10-24-21
244628013	941971	1	axc2	1/21/2010 10:58:03	OM_1-21-2010_10-24-21
244628014	941971	1	axc2	1/21/2010 10:58:56	OM_1-21-2010_10-24-21
244628015	941971	1	axc2	1/21/2010 10:59:49	OM_1-21-2010_10-24-21
244628016	941971	1	axc2	1/21/2010 11:00:43	OM_1-21-2010_10-24-21
CCV		1	axc2	1/21/2010 11:01:36	OM_1-21-2010_10-24-21
CCB		1	axc2	1/21/2010 11:03:26	OM_1-21-2010_10-24-21
244721001*	941971	1	axc2	1/21/2010 11:05:15	OM_1-21-2010_10-24-21
244721002*	941971	1	axc2	1/21/2010 11:06:08	OM_1-21-2010_10-24-21
244721003*	941971	1	axc2	1/21/2010 11:07:01	OM_1-21-2010_10-24-21
244721004*	941971	1	axc2	1/21/2010 11:07:53	OM_1-21-2010_10-24-21
244721005*	941971	1	axc2	1/21/2010 11:08:46	OM_1-21-2010_10-24-21
244721006*	941971	1	axc2	1/21/2010 11:09:38	OM_1-21-2010_10-24-21
244721007*	941971	1	axc2	1/21/2010 11:10:30	OM_1-21-2010_10-24-21
244721008*	941971	1	axc2	1/21/2010 11:11:22	OM_1-21-2010_10-24-21
1202016404*	941967	1	axc2	1/21/2010 11:12:15	OM_1-21-2010_10-24-21
1202016411*	941967	25	axc2	1/21/2010 11:13:07	OM_1-21-2010_10-24-21
CCV		1	axc2	1/21/2010 11:13:59	OM_1-21-2010_10-24-21

Original Run Filename: OM_1-21-2010_10-24-21.OMN created 1/21/2010 10:24:21
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-21-2010_10-24-21.OMN last modified 1/21/2010 11:15:04
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN10012101	1	S1	200	6.67	1/21/2010@10:27:43			200 ppb
WCN100121-02	1	S2	150	5.08	1/21/2010@10:28:35			150 ppb
WCN100121-03	1	S3	100	3.41	1/21/2010@10:29:27			100 ppb
WCN100121-04	1	S4	50.0	1.78	1/21/2010@10:30:20			50 ppb
WCN100121-05	1	S5	10.0	0.469	1/21/2010@10:31:13			10 ppb
WCN100121-06	1	S6	5.00	0.298	1/21/2010@10:32:07			CRDL 5.0 ppb
WCN100121-08	1	S7	0.00	-0.00455	1/21/2010@10:33:01			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99980 > 0.99500					
Message			Pass					
Action			Continue					
WCN100121-07	1	S8	158	5.30	1/21/2010@10:34:52			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			5.0 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			5.0 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100121-08	1	S7	-2.40	0.0191	1/21/2010@10:36:42			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.40 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.40 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100121-06	1	S6	5.87	0.292	1/21/2010@10:38:32			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.87 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.87 > 2.50					
Message			Pass					
Action			None					
1202016428|941971|MB	1	1	-2.00	0.0322	1/21/2010@10:40:22			
1202016432|LCS	1	2	31.6	1.14	1/21/2010@10:41:15		25.00	
244612001	1	3	-1.49	0.0492	1/21/2010@10:42:08			
1202017516|DUP	1	4	-1.96	0.0337	1/21/2010@10:43:01			
1202017517|MS	1	5	109	3.69	1/21/2010@10:43:54			
1202017518|MSD	1	6	107	3.63	1/21/2010@10:44:47			
244619001	1	7	0.140	0.103	1/21/2010@10:45:40			
244619003	1	8	0.0720	0.101	1/21/2010@10:46:33			
244622001	1	9	-1.77	0.0398	1/21/2010@10:47:25			
244622002	1	10	-1.91	0.0351	1/21/2010@10:48:17			
WCN100121-03	1	S3	104	3.53	1/21/2010@10:49:09			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					

Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	-0.243	0.0903	1/21/2010@10:51:00			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.243 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.243 > -5.00					
Message			CCB Passed					
Action			Continue					
244628010	1	11	1.90	0.161	1/21/2010@10:52:48			
1202016429|DUP	1	12	3.43	0.212	1/21/2010@10:53:40			
1202016430|MS	1	13	91.4	3.12	1/21/2010@10:54:33			
1202016431|MSD	1	14	99.1	3.37	1/21/2010@10:55:24			
244628011	1	15	1.13	0.136	1/21/2010@10:56:15			
244628012	1	16	0.879	0.127	1/21/2010@10:57:09			
244628013	1	17	-0.820	0.0712	1/21/2010@10:58:03			
244628014	1	18	-3.16	-0.00624	1/21/2010@10:58:56			
244628015	1	19	2.03	0.165	1/21/2010@10:59:49			
244628016	1	20	-2.23	0.0247	1/21/2010@11:00:43			
WCN100121-03	1	S3	107	3.65	1/21/2010@11:01:36			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			7.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			7.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	1.15	0.137	1/21/2010@11:03:26			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			1.15 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.15 > -5.00					
Message			CCB Passed					
Action			Continue					
244721001	1	21	0.0472	0.0999	1/21/2010@11:05:15			
244721002	1	22	-1.32	0.0546	1/21/2010@11:06:08			
244721003	1	23	-0.588	0.0789	1/21/2010@11:07:01			
244721004	1	24	4.11	0.234	1/21/2010@11:07:53			
244721005	1	25	-1.73	0.0410	1/21/2010@11:08:46			
244721006	1	26	3.04	0.199	1/21/2010@11:09:38			
244721007	1	27	0.176	0.104	1/21/2010@11:10:30			
244721008	1	28	-0.868	0.0697	1/21/2010@11:11:22			
1202016404|941967|MB	1	29	-2.13	0.0279	1/21/2010@11:12:15			
1202016411|LCS	1	30	30.0	1.09	1/21/2010@11:13:07		25.00	
WCN100121-03	1	S3	111	3.78	1/21/2010@11:13:59			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			11.5 > 10.0					
Message			CCV Failed					
Action			Stop Run					
DQM Test: < - Percent Relative Difference								
Result:			11.5 > 10.0					
Message			CCV Passed					
Action			Continue					

Analyte Properties Table for OM_1-21-2010_10-24-21.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

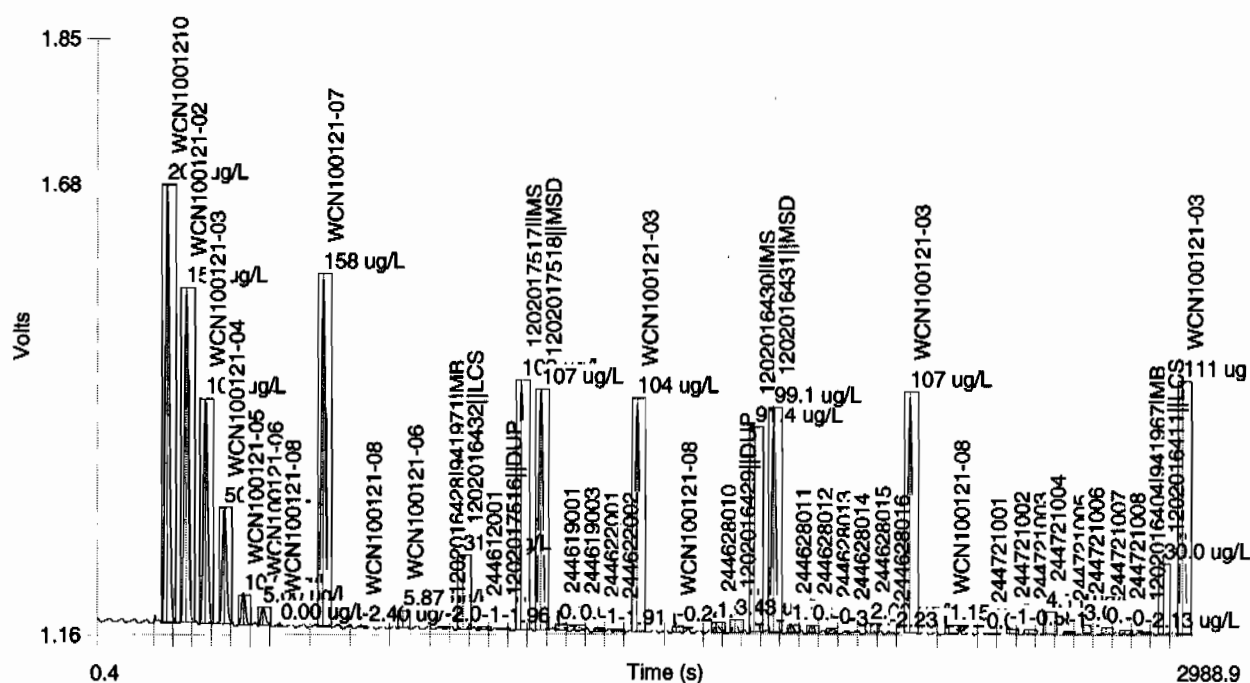
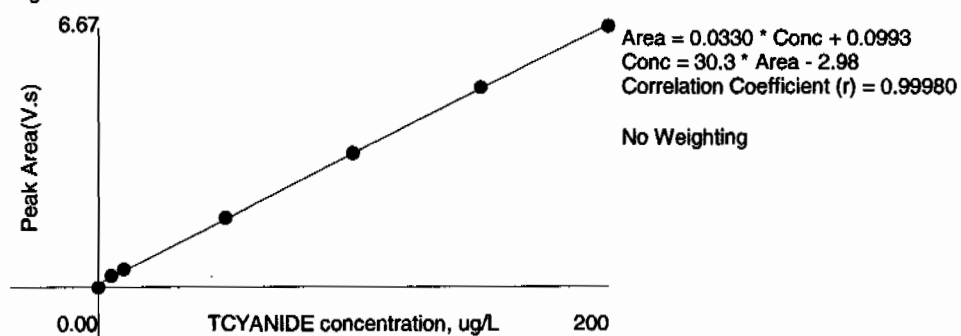


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	6.67	0.502	0.6	1/21/2010	10:28:46
2	150	1	5.08	0.383	-0.6	1/21/2010	10:29:38
3	100	1	3.41	0.258	-0.3	1/21/2010	10:30:30
4	50.0	1	1.78	0.135	-1.6	1/21/2010	10:31:23
5	10.0	1	0.469	0.0346	-9.1	1/21/2010	10:32:16
6	5.00	1	0.298	0.0213	-12.7	1/21/2010	10:33:10
7	0.00	1	-0.00455	-0.00192		1/21/2010	10:34:04

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	1/21/2010 11:19:02	OM_1-21-2010_11-18-16
CCB		1	axc2	1/21/2010 11:20:52	OM_1-21-2010_11-18-16
244721001	941971	1	axc2	1/21/2010 11:22:42	OM_1-21-2010_11-18-16
244721002	941971	1	axc2	1/21/2010 11:23:35	OM_1-21-2010_11-18-16
244721003	941971	1	axc2	1/21/2010 11:24:27	OM_1-21-2010_11-18-16
244721004	941971	1	axc2	1/21/2010 11:25:20	OM_1-21-2010_11-18-16
244721005	941971	1	axc2	1/21/2010 11:26:13	OM_1-21-2010_11-18-16
244721006	941971	1	axc2	1/21/2010 11:27:05	OM_1-21-2010_11-18-16
244721007	941971	1	axc2	1/21/2010 11:27:57	OM_1-21-2010_11-18-16
244721008	941971	1	axc2	1/21/2010 11:28:49	OM_1-21-2010_11-18-16
1202016404	941967	1	axc2	1/21/2010 11:29:41	OM_1-21-2010_11-18-16
1202016411	941967	25	axc2	1/21/2010 11:30:33	OM_1-21-2010_11-18-16
CCV		1	axc2	1/21/2010 11:31:25	OM_1-21-2010_11-18-16
CCB		1	axc2	1/21/2010 11:33:16	OM_1-21-2010_11-18-16
244601005	941967	1	axc2	1/21/2010 11:35:06	OM_1-21-2010_11-18-16
1202016405	941967	1	axc2	1/21/2010 11:36:00	OM_1-21-2010_11-18-16
1202016407	941967	1	axc2	1/21/2010 11:36:53	OM_1-21-2010_11-18-16
1202016409	941967	1	axc2	1/21/2010 11:37:47	OM_1-21-2010_11-18-16
244601006	941967	1	axc2	1/21/2010 11:38:40	OM_1-21-2010_11-18-16
1202016406	941967	1	axc2	1/21/2010 11:39:33	OM_1-21-2010_11-18-16
1202016408	941967	1	axc2	1/21/2010 11:40:26	OM_1-21-2010_11-18-16
1202016410	941967	1	axc2	1/21/2010 11:41:19	OM_1-21-2010_11-18-16
244601007	941967	1	axc2	1/21/2010 11:42:12	OM_1-21-2010_11-18-16
244601008	941967	1	axc2	1/21/2010 11:43:05	OM_1-21-2010_11-18-16
CCV		1	axc2	1/21/2010 11:43:57	OM_1-21-2010_11-18-16
CCB		1	axc2	1/21/2010 11:45:47	OM_1-21-2010_11-18-16
244601009*	941967	1	axc2	1/21/2010 11:47:36	OM_1-21-2010_11-18-16
244601010*	941967	1	axc2	1/21/2010 11:48:28	OM_1-21-2010_11-18-16
244601011*	941967	1	axc2	1/21/2010 11:49:21	OM_1-21-2010_11-18-16
244601012*	941967	1	axc2	1/21/2010 11:50:12	OM_1-21-2010_11-18-16
244601013*	941967	1	axc2	1/21/2010 11:51:04	OM_1-21-2010_11-18-16
244604001*	941967	1	axc2	1/21/2010 11:51:58	OM_1-21-2010_11-18-16
244604002*	941967	1	axc2	1/21/2010 11:52:52	OM_1-21-2010_11-18-16
244628001*	941967	1	axc2	1/21/2010 11:53:46	OM_1-21-2010_11-18-16
244628002*	941967	1	axc2	1/21/2010 11:54:40	OM_1-21-2010_11-18-16
244628003*	941967	1	axc2	1/21/2010 11:55:34	OM_1-21-2010_11-18-16
CCV		1	axc2	1/21/2010 11:56:26	OM_1-21-2010_11-18-16
CCB		1	axc2	1/21/2010 11:58:16	OM_1-21-2010_11-18-16

Original Run Filename: OM_1-21-2010_11-18-16.OMN created 1/21/2010 11:18:16
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-21-2010_11-18-16.OMN last modified 1/21/2010 11:59:21
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area (Vs)				
WCN100121-03	1	S3	101	3.44	1/21/2010@11:19:02			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.3 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.3 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100121-08	1	S7	0.746	0.123	1/21/2010@11:20:52			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.746 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.746 > -5.00					
Message			CCB Passed					
Action			Continue					
244721001|941971|	1	21	-1.14	0.0605	1/21/2010@11:22:42			
244721002	1	22	-0.453	0.0834	1/21/2010@11:23:35			
244721003	1	23	-0.586	0.0790	1/21/2010@11:24:27			
244721004	1	24	0.967	0.130	1/21/2010@11:25:20			
244721005	1	25	-1.70	0.0421	1/21/2010@11:26:13			
244721006	1	26	-0.610	0.0782	1/21/2010@11:27:05			
244721007	1	27	0.360	0.110	1/21/2010@11:27:57			
244721008	1	28	-1.15	0.0604	1/21/2010@11:28:49			
1202016404|941967|MB	1	29	-1.95	0.0339	1/21/2010@11:29:41			
1202016411|LCS	1	30	31.2	1.13	1/21/2010@11:30:33		25.00	
WCN100121-03	1	S3	96.4	3.28	1/21/2010@11:31:25			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-3.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-3.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	0.324	0.109	1/21/2010@11:33:16			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.324 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.324 > -5.00					
Message			CCB Passed					
Action			Continue					
244601005	1	31	-0.951	0.0669	1/21/2010@11:35:06			
1202016405|DUP	1	32	-1.97	0.0333	1/21/2010@11:36:00			
1202016407|MS	1	33	104	3.55	1/21/2010@11:36:53			
1202016409|MSD	1	34	109	3.69	1/21/2010@11:37:47			
244601006	1	35	3.10	0.201	1/21/2010@11:38:40			
1202016406|DUP	1	36	-0.467	0.0829	1/21/2010@11:39:33			

1202016408||MS	1	37	95.0	3.24	1/21/2010@11:40:26			
1202016410||MSD	1	38	97.2	3.31	1/21/2010@11:41:19			
244601007	1	39	1.24	0.139	1/21/2010@11:42:12			
244601008	1	40	0.510	0.115	1/21/2010@11:43:05			
WCN100121-03	1	S3	96.2	3.28	1/21/2010@11:43:57			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-3.8 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-3.8 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	0.353	0.110	1/21/2010@11:45:47			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.353 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.353 > -5.00					
Message			CCB Passed					
Action			Continue					
244601009	1	41	0.390	0.111	1/21/2010@11:47:36			
244601010	1	42	-1.29	0.0557	1/21/2010@11:48:28			
244601011	1	43	-0.652	0.0768	1/21/2010@11:49:21			
244601012	1	44	-0.725	0.0744	1/21/2010@11:50:12			
244601013	1	45	-1.42	0.0515	1/21/2010@11:51:04			
244604001	1	46	4.05	0.232	1/21/2010@11:51:58			
244604002	1	47	0.277	0.107	1/21/2010@11:52:52			
244628001	1	48	-0.683	0.0758	1/21/2010@11:53:46			
244628002	1	49	-1.11	0.0618	1/21/2010@11:54:40			
244628003	1	50	-1.86	0.0367	1/21/2010@11:55:34			
WCN100121-03	1	S3	95.8	3.26	1/21/2010@11:56:26			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-4.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-4.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	7.89	0.359	1/21/2010@11:58:16			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			7.89 > 5.00					
Message			CCB Failed					
Action			Stop Run					
DQM Test: < - Concentration Limit								
Result:			7.89 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_1-21-2010_11-18-16.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

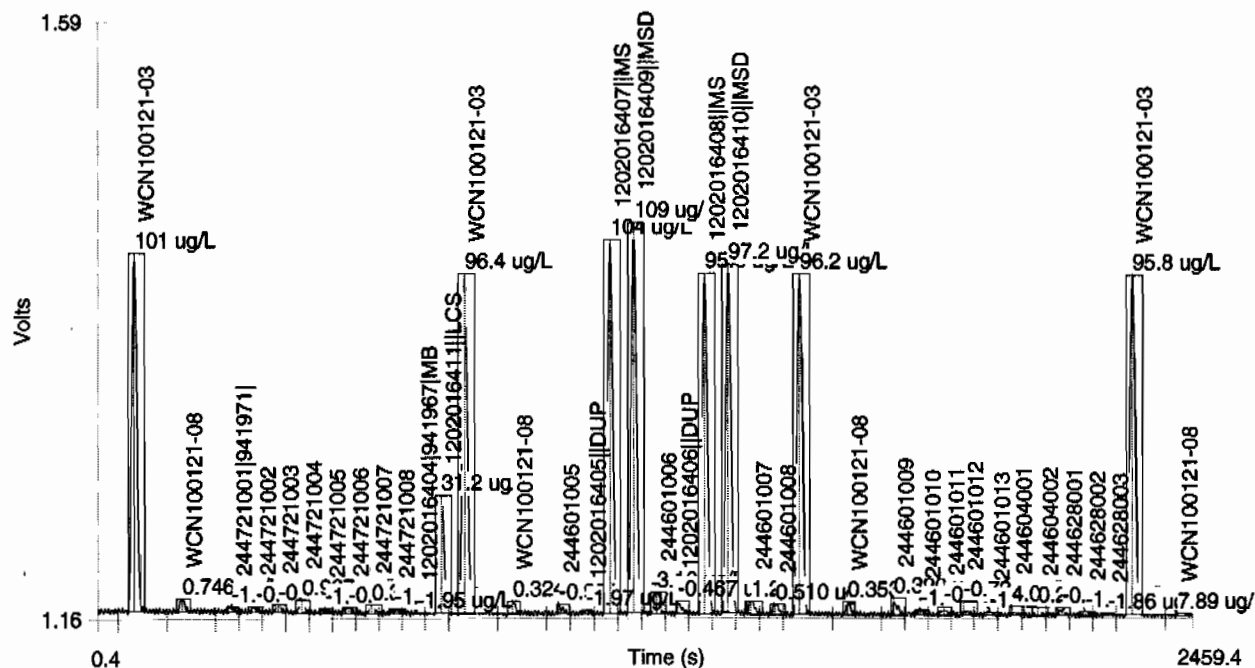
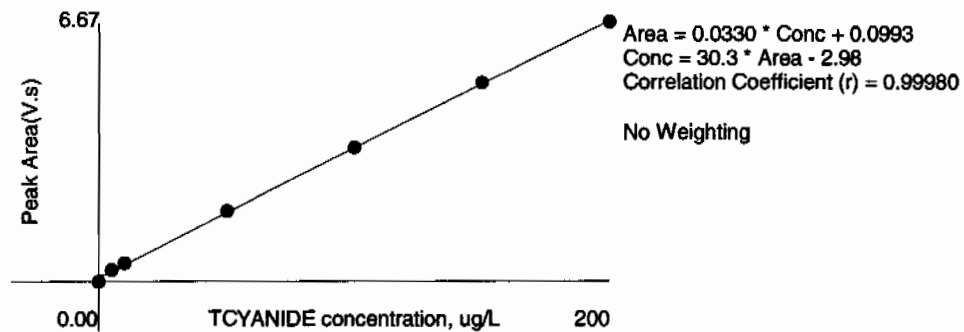


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	6.67	0.502	0.6	1/21/2010	10:28:46
2	150	1	5.08	0.363	-0.6	1/21/2010	10:29:38
3	100	1	3.41	0.258	-0.3	1/21/2010	10:30:30
4	50.0	1	1.78	0.135	-1.6	1/21/2010	10:31:23
5	10.0	1	0.469	0.0346	-9.1	1/21/2010	10:32:16
6	5.00	1	0.298	0.0213	-12.7	1/21/2010	10:33:10
7	0.00	1	-0.00455	-0.00192		1/21/2010	10:34:04

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	1/21/2010 12:06:14	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010 12:08:05	OM_1-21-2010_12-04-42
244601009	941967	1	axc2	1/21/2010 12:09:53	OM_1-21-2010_12-04-42
244601010	941967	1	axc2	1/21/2010 12:10:46	OM_1-21-2010_12-04-42
244601011	941967	1	axc2	1/21/2010 12:11:38	OM_1-21-2010_12-04-42
244601012	941967	1	axc2	1/21/2010 12:12:30	OM_1-21-2010_12-04-42
244601013	941967	1	axc2	1/21/2010 12:13:22	OM_1-21-2010_12-04-42
244604001	941967	1	axc2	1/21/2010 12:14:16	OM_1-21-2010_12-04-42
244604002	941967	1	axc2	1/21/2010 12:15:10	OM_1-21-2010_12-04-42
244628001	941967	1	axc2	1/21/2010 12:16:04	OM_1-21-2010_12-04-42
244628002	941967	1	axc2	1/21/2010 12:16:57	OM_1-21-2010_12-04-42
244628003	941967	1	axc2	1/21/2010 12:17:51	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010 12:18:43	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010 12:20:34	OM_1-21-2010_12-04-42
244628004	941967	1	axc2	1/21/2010 12:22:23	OM_1-21-2010_12-04-42
244628005	941967	1	axc2	1/21/2010 12:23:16	OM_1-21-2010_12-04-42
244628006	941967	1	axc2	1/21/2010 12:24:09	OM_1-21-2010_12-04-42
244628007	941967	1	axc2	1/21/2010 12:25:02	OM_1-21-2010_12-04-42
244628008	941967	1	axc2	1/21/2010 12:25:55	OM_1-21-2010_12-04-42
244628009	941967	1	axc2	1/21/2010 12:26:48	OM_1-21-2010_12-04-42
1202015109	941490	1	axc2	1/21/2010 12:27:40	OM_1-21-2010_12-04-42
1202015116	941490	1	axc2	1/21/2010 12:28:32	OM_1-21-2010_12-04-42
244510001	941490	1	axc2	1/21/2010 12:29:25	OM_1-21-2010_12-04-42
1202015110	941490	1	axc2	1/21/2010 12:30:17	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010 12:31:09	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010 12:32:59	OM_1-21-2010_12-04-42
1202015112	941490	1	axc2	1/21/2010 12:34:50	OM_1-21-2010_12-04-42
1202015114	941490	1	axc2	1/21/2010 12:35:44	OM_1-21-2010_12-04-42
244510003	941490	1	axc2	1/21/2010 12:36:38	OM_1-21-2010_12-04-42
244510005	941490	1	axc2	1/21/2010 12:37:32	OM_1-21-2010_12-04-42
244521001	941490	1	axc2	1/21/2010 12:38:26	OM_1-21-2010_12-04-42
244521003	941490	1	axc2	1/21/2010 12:39:19	OM_1-21-2010_12-04-42
244602001	941490	1	axc2	1/21/2010 12:40:12	OM_1-21-2010_12-04-42
1202016398	941490	1	axc2	1/21/2010 12:41:06	OM_1-21-2010_12-04-42
1202016400	941490	1	axc2	1/21/2010 12:41:58	OM_1-21-2010_12-04-42
1202016402	941490	1	axc2	1/21/2010 12:42:51	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010 12:43:43	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010 12:45:34	OM_1-21-2010_12-04-42
244614001	941490	1	axc2	1/21/2010 12:47:23	OM_1-21-2010_12-04-42
244618001	941490	1	axc2	1/21/2010 12:48:16	OM_1-21-2010_12-04-42
244625001	941490	1	axc2	1/21/2010 12:49:08	OM_1-21-2010_12-04-42
244625002	941490	1	axc2	1/21/2010 12:50:01	OM_1-21-2010_12-04-42
244640001	941490	1	axc2	1/21/2010 12:50:53	OM_1-21-2010_12-04-42
1202015111	941490	1	axc2	1/21/2010 12:51:47	OM_1-21-2010_12-04-42
1202015113	941490	1	axc2	1/21/2010 12:52:42	OM_1-21-2010_12-04-42
1202015115	941490	1	axc2	1/21/2010 12:53:36	OM_1-21-2010_12-04-42
244640002	941490	1	axc2	1/21/2010 12:54:30	OM_1-21-2010_12-04-42
244640003	941490	1	axc2	1/21/2010 12:55:24	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010 12:56:17	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010 12:58:07	OM_1-21-2010_12-04-42
244695002	941490	1	axc2	1/21/2010 12:59:56	OM_1-21-2010_12-04-42
1202016399	941490	1	axc2	1/21/2010 13:00:50	OM_1-21-2010_12-04-42
1202016401	941490	1	axc2	1/21/2010 13:01:43	OM_1-21-2010_12-04-42
1202016403	941490	1	axc2	1/21/2010 13:02:36	OM_1-21-2010_12-04-42
244695004	941490	1	axc2	1/21/2010 13:03:29	OM_1-21-2010_12-04-42
244726001	941490	1	axc2	1/21/2010 13:04:22	OM_1-21-2010_12-04-42
244758001	941490	1	axc2	1/21/2010 13:05:15	OM_1-21-2010_12-04-42
244758002	941490	1	axc2	1/21/2010 13:06:08	OM_1-21-2010_12-04-42

1202017566	942468	1	axc2	1/21/2010	13:07:01	OM_1-21-2010_12-04-42
1202017576	942468	1	axc2	1/21/2010	13:07:52	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010	13:08:45	OM_1-21-2010_12-04-42
CCB		1	axc2	1/21/2010	13:10:35	OM_1-21-2010_12-04-42
244855001*	942468	1	axc2	1/21/2010	13:12:26	OM_1-21-2010_12-04-42
1202017567*	942468	1	axc2	1/21/2010	13:13:20	OM_1-21-2010_12-04-42
1202017570*	942468	1	axc2	1/21/2010	13:14:14	OM_1-21-2010_12-04-42
1202017573*	942468	1	axc2	1/21/2010	13:15:09	OM_1-21-2010_12-04-42
244855003*	942468	1	axc2	1/21/2010	13:16:03	OM_1-21-2010_12-04-42
244874001*	942468	1	axc2	1/21/2010	13:16:57	OM_1-21-2010_12-04-42
244879003*	942468	1	axc2	1/21/2010	13:17:51	OM_1-21-2010_12-04-42
1202017568*	942468	1	axc2	1/21/2010	13:18:45	OM_1-21-2010_12-04-42
1202017571*	942468	1	axc2	1/21/2010	13:19:38	OM_1-21-2010_12-04-42
1202017574*	942468	1	axc2	1/21/2010	13:20:31	OM_1-21-2010_12-04-42
CCV		1	axc2	1/21/2010	13:21:24	OM_1-21-2010_12-04-42

Original Run Filename: OM_1-21-2010_12-04-42.OMN created 1/21/2010 12:04:42
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-21-2010_12-04-42.OMN last modified 1/21/2010 13:22:29
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area (Vs)				
WCN100121-03	1	S3	99.6	3.39	1/21/2010@12:06:14			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	0.791	0.124	1/21/2010@12:08:05			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.791 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.791 > -5.00					
Message			CCB Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
244601009[941967]	1	41	-0.501	0.0818	1/21/2010@12:09:53			
244601010	1	42	-1.30	0.0554	1/21/2010@12:10:46			
244601011	1	43	-0.319	0.0878	1/21/2010@12:11:38			
244601012	1	44	-1.43	0.0511	1/21/2010@12:12:30			
244601013	1	45	-1.15	0.0602	1/21/2010@12:13:22			
244604001	1	46	-1.61	0.0450	1/21/2010@12:14:16			
244604002	1	47	-0.0842	0.0956	1/21/2010@12:15:10			
244628001	1	48	-0.762	0.0731	1/21/2010@12:16:04			
244628002	1	49	-1.20	0.0586	1/21/2010@12:16:57			
244628003	1	50	-1.34	0.0542	1/21/2010@12:17:51			
WCN100121-03	1	S3	99.7	3.39	1/21/2010@12:18:43			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.3 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.3 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100121-08	1	S7	0.209	0.105	1/21/2010@12:20:34			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.209 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.209 > -5.00					
Message			CCB Passed					
Action			Continue					
244628004	1	51	-0.821	0.0712	1/21/2010@12:22:23			
244628005	1	52	-1.38	0.0527	1/21/2010@12:23:16			
244628006	1	53	0.607	0.118	1/21/2010@12:24:09			
244628007	1	54	-1.69	0.0424	1/21/2010@12:25:02			
244628008	1	55	-2.98	0.00	1/21/2010@12:25:55			
244628009	1	56	0.0868	0.101	1/21/2010@12:26:48			

1202015109|941490|MB	1	57	-0.219	0.0911	1/21/2010@12:27:40		
1202015116|LCS	1	58	53.4	1.86	1/21/2010@12:28:32		
244510001	1	59	-0.767	0.0730	1/21/2010@12:29:25		
1202015110|DUP	1	60	-2.98	-2.84e-4	1/21/2010@12:30:17		
WCN100121-03	1	S3	96.1	3.27	1/21/2010@12:31:09		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			-3.9 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			-3.9 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100121-08	1	S7	1.10	0.135	1/21/2010@12:32:59		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			1.10 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.10 > -5.00				
Message			CCB Passed				
Action			Continue				
1202015112|MS	1	61	108	3.68	1/21/2010@12:34:50		
1202015114|MSD	1	62	111	3.77	1/21/2010@12:35:44		
244510003	1	63	0.439	0.113	1/21/2010@12:36:38		
244510005	1	64	3.23	0.205	1/21/2010@12:37:32		
244521001	1	65	-1.99	0.0325	1/21/2010@12:38:26		
244521003	1	66	1.19	0.138	1/21/2010@12:39:19		
244602001	1	67	-2.16	0.0268	1/21/2010@12:40:12		
1202016398|DUP	1	68	-2.98	-1.33e-4	1/21/2010@12:41:06		
1202016400|MS	1	69	111	3.78	1/21/2010@12:41:58		
1202016402|MSD	1	70	117	3.97	1/21/2010@12:42:51		
WCN100121-03	1	S3	101	3.45	1/21/2010@12:43:43		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.5 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			1.5 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100121-08	1	S7	1.18	0.137	1/21/2010@12:45:34		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			1.18 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.18 > -5.00				
Message			CCB Passed				
Action			Continue				
244614001	1	71	-2.30	0.0223	1/21/2010@12:47:23		
244618001	1	72	-2.25	0.0239	1/21/2010@12:48:16		
244625001	1	73	-3.13	-0.00504	1/21/2010@12:49:08		
244625002	1	74	-2.49	0.0159	1/21/2010@12:50:01		
244640001	1	75	-2.02	0.0316	1/21/2010@12:50:53		
1202015111|DUP	1	76	-2.17	0.0266	1/21/2010@12:51:47		
1202015113|MS	1	77	104	3.54	1/21/2010@12:52:42		
1202015115|MSD	1	78	114	3.85	1/21/2010@12:53:36		
244640002	1	79	0.712	0.122	1/21/2010@12:54:30		
244640003	1	80	-1.59	0.0457	1/21/2010@12:55:24		
WCN100121-03	1	S3	97.7	3.33	1/21/2010@12:56:17		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			-2.3 < 10.0				

		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	-2.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100121-08	1	S7	0.823	0.126	1/21/2010@12:58:07		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	0.823 > 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.823 > -5.00				
		Message	CCB Passed				
		Action	Continue				
244695002	1	81	-2.59	0.0126	1/21/2010@12:59:56		
1202016399||DUP	1	82	0.985	0.131	1/21/2010@13:00:50		
1202016401||MS	1	83	114	3.86	1/21/2010@13:01:43		
1202016403||MSD	1	84	119	4.02	1/21/2010@13:02:36		
244695004	1	85	-1.10	0.0618	1/21/2010@13:03:29		
244726001	1	86	26.8	0.985	1/21/2010@13:04:22		
244758001	1	87	-1.02	0.0645	1/21/2010@13:05:15		
244758002	1	88	-1.24	0.0575	1/21/2010@13:06:08		
1202017566|942468|MB	1	89	-1.04	0.0641	1/21/2010@13:07:01		
1202017576||LCS	1	90	49.7	1.74	1/21/2010@13:07:52		
WCN100121-03	1	S3	99.0	3.37	1/21/2010@13:08:45		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	-1.0 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	-1.0 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100121-08	1	S7	1.01	0.132	1/21/2010@13:10:35		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	1.01 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	1.01 > -5.00				
		Message	CCB Passed				
		Action	Continue				
244855001	1	91	-1.52	0.0483	1/21/2010@13:12:26		
1202017567||DUP	1	92	-1.16	0.0601	1/21/2010@13:13:20		
1202017570||MS	1	93	105	3.57	1/21/2010@13:14:14		
1202017573||MSD	1	94	113	3.82	1/21/2010@13:15:09		
244855003	1	95	2.70	0.188	1/21/2010@13:16:03		
244874001	1	96	6.26	0.305	1/21/2010@13:16:57		
244879003	1	97	0.509	0.115	1/21/2010@13:17:51		
1202017568||DUP	1	98	-0.0503	0.0967	1/21/2010@13:18:45		
1202017571||MS	1	99	113	3.83	1/21/2010@13:19:38		
1202017574||MSD	1	100	138	4.65	1/21/2010@13:20:31		
WCN100121-03	1	S3	-321	-10.5	1/21/2010@13:21:24		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	-420.7 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	-420.7 < 10.0				
		Message	CCV Failed				
		Action	Stop Run				

Analyte Properties Table for OM_1-21-2010_12-04-42.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/l
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

[illegible]

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	6.67	0.502	0.6	1/21/2010	10:28:46
2	150	1	5.08	0.383	-0.6	1/21/2010	10:29:38
3	100	1	3.41	0.258	-0.3	1/21/2010	10:30:30
4	50.0	1	1.78	0.135	-1.6	1/21/2010	10:31:23
5	10.0	1	0.469	0.0346	-9.1	1/21/2010	10:32:16
6	5.00	1	0.298	0.0213	-12.7	1/21/2010	10:33:10
7	0.00	1	-0.00455	-0.00192		1/21/2010	10:34:04

Figure 1: TCYANIDE

