Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Mike Franks
Severn Trent Laboraties, Inc., St. Louis
13715 Rider Trail N.
Earth City, MO 63045

These Samples are on:
LANL Request Number:10-2688
Per Agreement Number:126310021
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 4/7/2010
TURNAROUND/REPORT DUE: 4/17/2010
TURNAROUND REQ'D: 10 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS: 10 full data package

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:6850	1	RE12-10-15442	R	4/6/2010	

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:7470A	1	RE12-10-15449	W	4/6/2010	
	SW-846:7471A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846:9012A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	

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Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2688C

REQUEST NUMBER: 10-2688

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Mike Franks

Severn Trent Laboraties, Inc., St. Louis

13715 Rider Trail N.

Earth City, MO 63045

LAB REQUEST COMMENTS: 10 full data package

TURNAROUND/REPORT DUE: 4/17/2010

TURNAROUND REQ'D: 10

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15443	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15442	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15448	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15446	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15445	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15447	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15449	1	POLY	METALS+U-GEL	Nitric Acid	W
RE12-10-15449	1	POLY	SW-846:6850	Ice	W
RE12-10-15449	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
Printed Name	Signature			Printed Name	Signature		
		4/7/10	1400				
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: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15442 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	QBT3	Alluh
TIME COLLECTED (HH:MM)		0959	SUB-MEDIA:	TUFF 1	NA
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611939	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03.31.10	Ice	Y	↓
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC: Brown sandy silt

~~FD: RE12-10-15448~~ TLM 4/6/10

SAMPLE COMMENTS:

NA

LOCATION DESC:

6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

~~PID Ambient Reading = ppm~~ RS 03.31.10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Darrell Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martinez	4/6/10
(Signature) Tracy McFarland	1230	(Signature)	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15443 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1010	SUB-MEDIA:	TUFF 1	↓
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611939	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	12/4/6/10 ~~3.0~~ 2.5	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	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03-31-10	Ice	Y	↓
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC: Light brownish tan tuff (weathered) and brown sandy silt

SAMPLE COMMENTS:

Tuff at 2.2 ft

LOCATION DESC:

6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID ~~Ambient Reading~~ = ppm
RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martz	4/6/10
(Signature) Tracy Z	1230	(Signature)	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15444 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	OBT3	ok
TIME COLLECTED (HH:MM)		1039	SUB-MEDIA:	TUFF 1	↓
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611939	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	5.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	5.4	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	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03-31-10	Ice	Y	↓
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC: Orangey brown tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID ~~Ambient Reading~~ = ppm
RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Michael Martin	4/6/10
(Signature) Tracy [illegible]	1230	(Signature) [illegible]	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15445 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	QBT3	Air
TIME COLLECTED (HH:MM)		1044	SUB-MEDIA:	TUFF 1	NA
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611940		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / NO / NA

BOREHOLE: YES / NO / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03-31-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown sandy silt

FD RE12-10-15446

SAMPLE COMMENTS: NA

LOCATION DESC: 1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID ~~Ambient Reading~~ = ppm RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martyn	4/6/10
(Signature) Tracy McFarland	1230	(Signature)	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15446 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1059	SUB-MEDIA:	TUFF 1	↓
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611940	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	2.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	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	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03-31-10	Ice	Y	↓
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC: Orangey pink gray tuff

SAMPLE COMMENTS: Hit tuff at 1.5 ft

LOCATION DESC: 1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

~~PID Ambient Reading = ppm~~ RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Mata	4/6/10
(Signature) Tracy McFarland	1230	(Signature) [signature]	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15447 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1121	SUB-MEDIA:	TUFF 1	↓
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	12-611940	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	5.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	5.5	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	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS 03-31-10	Ice	Y	↓
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC: whitish gray tuff

FR RE12-10-15449

SAMPLE COMMENTS: NA

LOCATION DESC: 1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

~~PID Ambient Reading = ppm~~ RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martinez	4/6/10
(Signature) Tracy Z	1230	(Signature)	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15448 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	OBT3	Air
TIME COLLECTED (HH:MM)		73m 4/6/10 ~~0959~~ 1044	SUB-MEDIA:	TUFF 1	NA
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	UNK	12-611940 ~~12-611939~~ 73m 4/6/10	FIELD QC TYPE:	FD	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	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 73m 4/6/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	~~8082+~~ 8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+ CN	1 ~~GAL~~ Liter POLY RS ~~03-30~~ 03-31-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 12-10-~~15442~~ 15445 73m 4/6/10
Brown sandy silt

SAMPLE COMMENTS:
NA

LOCATION DESC: 1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

~~PID Ambient Reading = ppm~~
RS 03-31-10

Alpha ≤ 25 dpm
Beta/Gamma ≤ 796 dpm

COLLECTED BY (PRINT) TLMcFarland REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martin	4/6/10
(Signature) Tracy McFarland	1230	(Signature) [signature]	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728 **EVENT NAME:** 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15449 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		04/06/2010	MEDIA:	NA	ok
TIME COLLECTED (HH:MM)		1150	SUB-MEDIA:	OTHER	
PRS ID:	12-004(b)	ok	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	12-611940	FIELD QC TYPE:	FR	
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	UF	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	W		EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **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	10 day	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	10 day full data package
1	↓	SW-846:6850	250 ML POLY	Ice	Y	↓
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Y	↓

SAMPLE DESC: QC Sample of RE12-10-15447

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** Daniel Byers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Martin	4/6/10
(Signature) [signature]	1230	(Signature) [signature]	1230
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15442	ARS Sample ID:	ARS2-10-00101-001
Sample Collection Date:	04/06/10 09:59	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

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	4.28	14.05	31.34	14.06		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	22.36	13.08	18.71	13.36		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	30.58	0.10	30.58		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	22.42	7.58	1.05	7.61		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.03	0.06	0.07	0.06		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.50	0.27	0.06	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.29	0.35	0.27	0.35		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.41	0.44	0.11	0.44		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	1.95	0.87	0.26	0.87		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.59	0.67	0.37	0.67		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	6.58	2.75	0.98	3.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.28	0.33	0.13	0.33		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.66

Matthew J. Eden

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15443	ARS Sample ID:	ARS2-10-00101-002
Sample Collection Date:	04/06/10 10:10	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

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	8.63	15.90	29.20	15.93		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	20.98	12.48	17.50	12.74		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	33.20	0.11	33.20		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	1.39	5.45	2.56	5.45		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.17	0.14	0.08	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	-0.03	-0.06	0.31	-0.06		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.47	0.50	0.15	0.50		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	1.77	0.76	0.28	0.76		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	-0.30	-3.08	0.48	-3.08		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	0.19	1.79	1.11	1.79		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.01	-0.18	0.08	-0.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.58

Matthew L. Eden

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15444	ARS Sample ID:	ARS2-10-00101-003
Sample Collection Date:	04/06/10 10:39	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	9.42	16.61	29.97	16.65		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	21.83	13.39	18.87	13.66		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.04	36.60	0.12	36.60		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	32.97	10.06	1.26	10.10		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.08	0.13	0.17	0.13		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.13	0.15	0.07	0.15		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.12	0.16	0.32	0.16		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.17	0.51	0.19	0.51		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.36	0.89	0.31	0.89		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.13	0.18	0.49	0.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	2.37	3.08	1.42	3.12		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.55	0.54	0.19	0.54		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.60

Matthew J. Eden

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15445	ARS Sample ID:	ARS2-10-00101-004
Sample Collection Date:	04/06/10 10:44	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

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	15.71	20.38	32.12	20.47		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	33.88	14.27	17.61	14.86		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	33.85	0.11	33.85		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	19.26	8.74	1.96	8.76		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.18	0.24	0.08	0.24		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.01	0.03	0.07	0.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.21	0.23	0.29	0.23		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.55	0.49	0.13	0.50		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.27	0.87	0.28	0.88		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	1.35	0.70	0.42	0.70		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	4.98	3.76	1.43	3.93		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.32	0.28	0.11	0.28		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.43

Matthew L. Eden

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15446	ARS Sample ID:	ARS2-10-00101-005
Sample Collection Date:	04/06/10 10:59	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.18	19.65	31.34	19.73		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	26.74	13.80	18.71	14.18		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	30.38	0.10	30.38		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	21.00	7.31	1.05	7.34		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.04	0.10	0.14	0.10		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	-0.41	117.60	0.26	117.60		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.13	0.40	0.10	0.40		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	0.91	0.53	0.25	0.53		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.74	0.62	0.37	0.62		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	2.50	3.13	1.32	3.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.02	28.77	0.06	28.77		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 0.64

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15447	ARS Sample ID:	ARS2-10-00101-006
Sample Collection Date:	04/06/10 11:21	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

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	-0.61	9.45	29.20	9.45		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	38.07	14.39	17.50	15.13		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	35.39	0.11	35.39		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	28.17	9.14	1.22	9.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.07	0.14	0.12	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.19	0.25	0.11	0.25		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.08	0.12	0.07	0.12		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	-0.11	-0.24	0.31	-0.24		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.97	0.56	0.14	0.57		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.74	1.16	0.30	1.17		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.75	0.85	0.52	0.85		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	4.62	4.00	1.53	4.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.01	-0.19	0.09	-0.19		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 0.28

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00101	Request or PO Number:	
Client Sample ID:	RE12-10-15448	ARS Sample ID:	ARS2-10-00101-007
Sample Collection Date:	04/06/10 10:44	Date Received:	04/06/10 13:24
Sample Matrix:	Soil/Solid	Report Date:	04/06/10 19:37

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	19.07	21.33	29.97	21.46		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	57.17	17.67	18.87	19.01		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	29.54	0.09	29.54		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	17.95	6.67	1.02	6.69		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.30	0.27	0.10	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	-0.01	-0.03	0.09	-0.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.14	0.14	0.06	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.01	0.02	0.26	0.02		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.48	0.46	0.13	0.46		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.42	1.07	0.25	1.07		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.25	0.79	0.44	0.79		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	3.77	3.99	1.55	4.08		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.13	0.27	0.12	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 1.39										

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

Rad Screening Data Release Form

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

RE12-10-15442
15443
15444
15445
15446
15447
15448

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):

RE12-10-15449

Reason: Rinsate

Print Last Name McFarland Signature [illegible] Date 4/6/10

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

Section I.

REQUEST NUMBER: 10-2688 VALIDATION DATE: 04/30/10 LAB CODE: STSL

CONTRACT LABORATORY NAME: TestAmerica Laboratories, Inc. - St. Louis

VALIDATOR: Kevin A. Lambert ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO
- ☐ TPH-DRO
- ☐ GENERAL CHEMISTRY
- ☐ HIGH EXPLOSIVES
- ☐ METALS
- ☐ RADIOCHEMISTRY
- ☐ DIOXIN FURANS
- ☐ PCB CONGENERS
- ☐ LCMSMS HIGH EXPLOSIVES
- ☒ LCMSMS PERCHLORATES
- ☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
- ☐ OTHER (DESCRIBE):

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☒	☐	☐	8. QUANTITATION REPORTS
☒	☐	☐	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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 laboratory did not analyze an MSD. A laboratory duplicate was assessed for precision. Acceptance criteria were met and no sample data were qualified as a result. Also, it should be noted that the soil duplicate and soil MS analyses were performed on a LANL sample from another RN, and the parent sample raw data was not included in the data package. No sample data were qualified.

Reviewed by: Mary Donivan Level: I Date: 05/03/10

VALIDATOR'S SIGNATURE: Kevin A Lambert DATE: 04/30/10

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. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	1. The Internal Standard (IS) relativer retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
☐	☒	☐	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
☐	☐	☒	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
☐	☐	☒	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
☐	☐	☒	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
☐	☐	☒	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PREC1d	R, PERC1d
☐	☒	☐	7. The sample result is ≤ 5X the concentration of the related analyte in the method blank.	U, PERC4	N/A
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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

Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
☐	☒	☐	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
☐	☒	☐	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
☐	☐	☒	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
☐	☐	☒	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
☐	☒	☐	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
☐	☒	☐	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
☐	☒	☐	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
☐	☒	☐	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
☐	☒	☐	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
☐	☒	☐	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
☐	☒	☐	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
☐	☒	☐	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
☐	☒	☐	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	27. The MS/MSD relative percent difference was >20%.	UJ, PERC12g	J, PERC12g
☐	☐	☒	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
☐	☐	☒	29. The sample was diluted because target analytes were > the initial verification calibration.	UJ, PERC15a	J, PERC15a
☐	☐	☒	30. The Contract Required Detection Limit check standard (CRI) sample did not pass method-acceptance limits.	UJ, R, PERC16	J, PERC16
☐	☐	☒	31. The Interference Check Sample was not within ±20% of the known value.	UJ, PERC16a	J, PERC16a
☐	☐	☒	32. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, PERC16c	R, PERC16c
☐	☒	☐	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
☐	☒	☐	34. Duplicate, dilution, or reanalysis.	UJ, PERC88	J, PERC88

Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

HPLC - Mass. Spec.

Lot-Sample #...:	F0D080495-001	**Work Order #...:**	LXNKX1A6	**Matrix.....:**	SOLID
Date Sampled...:	04/06/10	**Date Received..:**	04/08/10		
Prep Date.....:	04/08/10	**Analysis Date..:**	04/14/10		
Prep Batch #...:	0098400	**Analysis Time..:**	12:15		
Dilution Factor:	1				
% Moisture.....:	17	**Method.....:**	SW846 6850		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	6.0	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

HPLC - Mass. Spec.

Lot-Sample #...:	F0D080495-002	**Work Order #...:**	LXNK61AH	**Matrix.....:**	SOLID
Date Sampled...:	04/06/10	**Date Received..:**	04/08/10		
Prep Date.....:	04/08/10	**Analysis Date..:**	04/14/10		
Prep Batch #...:	0098400	**Analysis Time..:**	12:38		
Dilution Factor:	1				
% Moisture.....:	16	**Method.....:**	SW846 6850		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.9	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-003 **Work Order #...:** LXNK81AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:45
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.8	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-004 **Work Order #...:** LXNLC1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:53
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.9	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-005 **Work Order #...:** LXNLE1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 13:00
Dilution Factor: 1
% Moisture.....: 6.2 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.3	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

HPLC - Mass. Spec.

Lot-Sample #...:	F0D080495-006	**Work Order #...:**	LXNLH1AH	**Matrix.....:**	SOLID
Date Sampled...:	04/06/10	**Date Received..:**	04/08/10		
Prep Date.....:	04/08/10	**Analysis Date..:**	04/14/10		
Prep Batch #...:	0098400	**Analysis Time..:**	13:08		
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 6850		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.8	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-007 **Work Order #...:** LXNLK1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 13:15
Dilution Factor: 1
% Moisture.....: 3.3 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.2	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15449

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-008 **Work Order #...:** LXNLM1A5 **Matrix.....:** WATER
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/12/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0102141 **Analysis Time..:** 13:46
Dilution Factor: 1
Method.....: SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

KAL
04/30/10

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

Section I.

REQUEST NUMBER: 10-2688 VALIDATION DATE: 04/30/10 LAB CODE: STSL

CONTRACT LABORATORY NAME: TestAmerica Laboratories, Inc. - St. Louis

VALIDATOR: Kevin A. Lambert ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO
- ☐ TPH-DRO
- ☐ GENERAL CHEMISTRY
- ☐ HIGH EXPLOSIVES
- ☒ METALS
- ☐ RADIOCHEMISTRY
- ☐ DIOXIN FURANS
- ☐ PCB CONGENERS
- ☐ LCMSMS HIGH EXPLOSIVES
- ☐ LCMSMS PERCHLORATES
- ☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
- ☐ OTHER (DESCRIBE):

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☐	☐	☒	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☐	☐	☒	8. QUANTITATION REPORTS
☐	☐	☒	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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 water MB, Fe, Na, and Tl were detected. The associated Na sample result was a detect >5X but ≤50X the MB concentration and, thus, was qualified J,I4a. The associated Tl result was a detect ≤5X the MB concentration and, thus, was qualified U,I4. The associated Fe was a ND and, thus, was not qualified.

   In the soil MB, Sb and Fe were detected. The Sb result for sample RE12-10-15444 was a detect >5X but ≤50X the MB concentration but was subsequently qualified ND and, thus was not qualified for the MB outlier. The other associated Sb sample results were detects ≤5X the MB concentration and, thus, were qualified U,I4. The associated Fe results were detects >50X the MB concentration and, based on professional judgment, were not qualified.

2. In the water ICB/CCB, Sb, Be, Cd, Co, Cu, Pb, Mg, K, Se, Tl, and U were detected. The associated Cu, Mg, and Tl results were detects ≤5X the greatest ICB/CCB concentrations and, thus, were qualified U,I4b. All other associated sample results were either NDs or detects >5X the greatest ICB/CCB concentrations and, thus, were not qualified.

   In the soil ICB/CCB, Sb was detected. The associated sample results were detects ≤5X the greatest ICB/CCB concentration and, thus, were qualified U,I4b.

3. In the FR blank, sample -15449, associated with all field samples, Al, K, and Na were detected. The Na results for samples -15442, -15448, and -15445 were detects ≤5X the FR blank concentration and, thus, were qualified U,I4d. All other associated sample results were detects >5X the FR blank concentration and, thus, were not qualified.

4. The soil MS %R for Mn and the low-level soil MS %R for Se were <75% but ≥10%, and the soil MS %R for Al was >125%. The associated Se results were > the RL and, thus, were not qualified. The associated Mn results

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

were detects and, thus, were qualified J-,I6a. The associated Al results were detects and, thus, were qualified J+,I6b.

5. It should be noted that the parent samples for the water matrix QC analyses, and soil matrix QC analyses except low-level ICP-MS analyses and ICP-MS Sb analysis were LANL samples from other RNs, and the parent sample raw data were not included in the data package. No sample data were qualified.

Reviewed by: Mary Donivan Level: I Date: 05/03/10

VALIDATOR'S SIGNATURE: Kevin A Lambert DATE: 04/30/10

Form 5118-1, Revision 0.0

LOS ALAMOS
Environmental Restoration Project

METALS ANALYTICAL DATA VALIDATION CHECKLIST

5118-2

Metals Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
☐	☐	☒	3. The instrument performance sample did not pass method acceptance criteria.	R, I16	R, I16
☐	☐	☒	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
☐	☐	☒	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, I16b
☐	☐	☒	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, I16c	R, I16c
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	9. The initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, I7c	J, I7c
☐	☒	☐	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
☐	☒	☐	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
☐	☒	☐	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

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	13. Metals interference check sample percent recovery value is ≥50% and <80%	UJ, I2a	J-, I2a
☐	☒	☐	14. Metals interference check sample percent recovery value is >120%.	N/A	J+, I2b
☐	☒	☐	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
☒	☐	☐	16. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, I4	N/A
☒	☐	☐	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
☒	☐	☐	18. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
☐	☒	☐	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
☒	☐	☐	20. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
☐	☒	☐	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
☐	☒	☐	22. The associated matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
☒	☐	☐	23. The associated matrix spike recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
☒	☐	☐	24. The associated matrix spike recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

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

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	**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**
☐	☒	☐	**26. The sample and the duplicate sample results were ≥5X the RL and the duplicate RPD was >20% for water samples and >35% for soil samples.**	**UJ, I10a**	**J, I10a**
☐	☒	☐	**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**
☐	☒	☐	**28. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.**	**R, I12**	**R, I12**
☐	☒	☐	**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**
☐	☒	☐	**30. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.**	**N/A**	**J+, I12b**
☐	☒	☐	**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**
☐	☐	☒	**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

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	37. Serial dilution sample was not analyzed with the samples.	UJ, I18a	J, I18
☐	☐	☒	38. The sample result was reported as detected between the IDL and the EDL.	N/A	J, I1
☐	☒	☐	39. Duplicate, dilution, or reanalysis.	UJ, I88	J, I88
☒	☐	☐	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
☐	☒	☐	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

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	3.0	6.0	14400	N	1	ICPMS	4/13/2010	21:06
Arsenic	75	0.37	1.2	3.8		1	ICPMS	4/13/2010	21:06
Barium	137	0.16	2.4	79.4		1	ICPMS	4/13/2010	21:06
Beryllium	9	0.018	0.12	1.6		1	ICPMS	4/13/2010	21:06
Cadmium	111	0.024	0.060	0.041	J	1	ICPMS	4/13/2010	21:06
Calcium	44	24.1	60.3	5490		1	ICPMS	4/13/2010	21:06
Chromium	52	0.77	1.2	13.7		1	ICPMS	4/13/2010	21:06
Cobalt	59	0.063	0.24	3.5		1	ICPMS	4/13/2010	21:06
Copper	63	0.24	1.2	18.0		1	ICPMS	4/13/2010	21:06
Iron	57	4.8	6.0	13500		1	ICPMS	4/13/2010	21:06
Lead	208	0.19	0.36	11.9		1	ICPMS	4/13/2010	21:06
Magnesium	24	3.8	60.3	3230		1	ICPMS	4/13/2010	21:06
Manganese J-,I6a	55	0.18	0.60	176	N	1	ICPMS	4/13/2010	21:06
Nickel	60	0.18	0.60	13.9	E	1	ICPMS	4/13/2010	21:06
Potassium	39	3.6	12.1	2300		1	ICPMS	4/13/2010	21:06
Selenium	78	0.096	0.60	1.3		1	ICPMS	4/13/2010	21:06
Silver	107	0.027	0.24	0.14	J	1	ICPMS	4/13/2010	21:06
Sodium	23	7.8	24.1	1470		1	ICPMS	4/13/2010	21:06
Thallium	205	0.18	0.24	0.18	U*	1	ICPMS	4/13/2010	21:06
Uranium	238	0.024	0.12	0.93	E	1	ICPMS	4/13/2010	21:06
Vanadium	51	0.89	1.2	21.2		1	ICPMS	4/13/2010	21:06
Zinc	66	2.3	2.4	35.8	E	1	ICPMS	4/13/2010	21:06

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	3.0	5.9	15200	N	1	ICPMS	4/13/2010	21:27
Arsenic	75	0.37	1.2	3.5		1	ICPMS	4/13/2010	21:27
Barium	137	0.16	2.4	190		1	ICPMS	4/13/2010	21:27
Beryllium	9	0.018	0.12	1.2		1	ICPMS	4/13/2010	21:27
Cadmium	111	0.024	0.059	0.046	J	1	ICPMS	4/13/2010	21:27
Calcium	44	23.7	59.2	2300		1	ICPMS	4/13/2010	21:27
Chromium	52	0.75	1.2	10.0		1	ICPMS	4/13/2010	21:27
Cobalt	59	0.062	0.24	5.7		1	ICPMS	4/13/2010	21:27
Copper	63	0.24	1.2	7.3		1	ICPMS	4/13/2010	21:27
Iron	57	4.7	5.9	12600		1	ICPMS	4/13/2010	21:27
Lead	208	0.18	0.36	16.2		1	ICPMS	4/13/2010	21:27
Magnesium	24	3.7	59.2	2210		1	ICPMS	4/13/2010	21:27
Manganese J-,I6a	55	0.18	0.59	278	N	1	ICPMS	4/13/2010	21:27
Nickel	60	0.18	0.59	8.3	E	1	ICPMS	4/13/2010	21:27
Potassium	39	3.6	11.8	1990		1	ICPMS	4/13/2010	21:27
Selenium	78	0.095	0.59	1.1		1	ICPMS	4/13/2010	21:27
Silver	107	0.026	0.24	0.068	J	1	ICPMS	4/13/2010	21:27
Sodium	23	7.7	23.7	365		1	ICPMS	4/13/2010	21:27
Thallium	205	0.18	0.24	0.24	*	1	ICPMS	4/13/2010	21:27
Uranium	238	0.024	0.12	0.67	E	1	ICPMS	4/13/2010	21:27
Vanadium	51	0.87	1.2	23.1		1	ICPMS	4/13/2010	21:27
Zinc	66	2.3	2.4	23.0	E	1	ICPMS	4/13/2010	21:27

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	2.9	5.8	8450	N	1	ICPMS	4/13/2010	21:42
Arsenic	75	0.36	1.2	2.9		1	ICPMS	4/13/2010	21:42
Barium	137	0.16	2.3	125		1	ICPMS	4/13/2010	21:42
Beryllium	9	0.018	0.12	0.71		1	ICPMS	4/13/2010	21:42
Cadmium	111	0.023	0.058	0.094		1	ICPMS	4/13/2010	21:42
Calcium	44	23.4	58.4	1870		1	ICPMS	4/13/2010	21:42
Chromium	52	0.74	1.2	8.0		1	ICPMS	4/13/2010	21:42
Cobalt	59	0.061	0.23	5.4		1	ICPMS	4/13/2010	21:42
Copper	63	0.23	1.2	6.6		1	ICPMS	4/13/2010	21:42
Iron	57	4.7	5.8	9880		1	ICPMS	4/13/2010	21:42
Lead	208	0.18	0.35	23.0		1	ICPMS	4/13/2010	21:42
Magnesium	24	3.7	58.4	1700		1	ICPMS	4/13/2010	21:42
Manganese J-,I6a	55	0.18	0.58	286	N	1	ICPMS	4/13/2010	21:42
Nickel	60	0.18	0.58	6.5	E	1	ICPMS	4/13/2010	21:42
Potassium	39	3.5	11.7	1860		1	ICPMS	4/13/2010	21:42
Selenium	78	0.093	0.58	0.86		1	ICPMS	4/13/2010	21:42
Silver	107	0.026	0.23	0.048	J	1	ICPMS	4/13/2010	21:42
Sodium U,I4d	23	7.6	23.4	58.8		1	ICPMS	4/13/2010	21:42
Thallium	205	0.18	0.23	0.24	*	1	ICPMS	4/13/2010	21:42
Uranium	238	0.023	0.12	5.8	E	1	ICPMS	4/13/2010	21:42
Vanadium	51	0.86	1.2	20.3		1	ICPMS	4/13/2010	21:42
Zinc	66	2.2	2.3	21.2	E	1	ICPMS	4/13/2010	21:42

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	2.9	5.9	7070	N	1	ICPMS	4/13/2010	21:49
Arsenic	75	0.36	1.2	2.4		1	ICPMS	4/13/2010	21:49
Barium	137	0.16	2.3	112		1	ICPMS	4/13/2010	21:49
Beryllium	9	0.018	0.12	0.60		1	ICPMS	4/13/2010	21:49
Cadmium	111	0.023	0.059	0.073		1	ICPMS	4/13/2010	21:49
Calcium	44	23.5	58.7	1410		1	ICPMS	4/13/2010	21:49
Chromium	52	0.75	1.2	7.2		1	ICPMS	4/13/2010	21:49
Cobalt	59	0.061	0.23	5.8		1	ICPMS	4/13/2010	21:49
Copper	63	0.23	1.2	5.0		1	ICPMS	4/13/2010	21:49
Iron	57	4.7	5.9	8790		1	ICPMS	4/13/2010	21:49
Lead	208	0.18	0.35	12.7		1	ICPMS	4/13/2010	21:49
Magnesium	24	3.7	58.7	1340		1	ICPMS	4/13/2010	21:49
Manganese J-,I6a	55	0.18	0.59	357	N	1	ICPMS	4/13/2010	21:49
Nickel	60	0.18	0.59	6.1	E	1	ICPMS	4/13/2010	21:49
Potassium	39	3.5	11.7	1580		1	ICPMS	4/13/2010	21:49
Selenium	78	0.094	0.59	0.76		1	ICPMS	4/13/2010	21:49
Silver	107	0.026	0.23	0.035	J	1	ICPMS	4/13/2010	21:49
Sodium U,I4d	23	7.6	23.5	52.5		1	ICPMS	4/13/2010	21:49
Thallium	205	0.18	0.23	0.18	U*	1	ICPMS	4/13/2010	21:49
Uranium	238	0.023	0.12	7.1	E	1	ICPMS	4/13/2010	21:49
Vanadium	51	0.86	1.2	18.5		1	ICPMS	4/13/2010	21:49
Zinc	66	2.3	2.3	17.5	E	1	ICPMS	4/13/2010	21:49

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	2.7	5.3	6220	N	1	ICPMS	4/13/2010	21:56
Arsenic	75	0.33	1.1	3.0		1	ICPMS	4/13/2010	21:56
Barium	137	0.14	2.1	140		1	ICPMS	4/13/2010	21:56
Beryllium	9	0.016	0.11	0.60		1	ICPMS	4/13/2010	21:56
Cadmium	111	0.021	0.053	0.029	J	1	ICPMS	4/13/2010	21:56
Calcium	44	21.3	53.3	2320		1	ICPMS	4/13/2010	21:56
Chromium	52	0.68	1.1	8.2		1	ICPMS	4/13/2010	21:56
Cobalt	59	0.055	0.21	6.4		1	ICPMS	4/13/2010	21:56
Copper	63	0.21	1.1	11.8		1	ICPMS	4/13/2010	21:56
Iron	57	4.3	5.3	8670		1	ICPMS	4/13/2010	21:56
Lead	208	0.16	0.32	10.4		1	ICPMS	4/13/2010	21:56
Magnesium	24	3.4	53.3	1560		1	ICPMS	4/13/2010	21:56
Manganese J-,I6a	55	0.16	0.53	301	N	1	ICPMS	4/13/2010	21:56
Nickel	60	0.16	0.53	8.5	E	1	ICPMS	4/13/2010	21:56
Potassium	39	3.2	10.7	1330		1	ICPMS	4/13/2010	21:56
Selenium	78	0.085	0.53	0.69		1	ICPMS	4/13/2010	21:56
Silver	107	0.023	0.21	0.036	J	1	ICPMS	4/13/2010	21:56
Sodium	23	6.9	21.3	336		1	ICPMS	4/13/2010	21:56
Thallium	205	0.16	0.21	0.21	J*	1	ICPMS	4/13/2010	21:56
Uranium	238	0.021	0.11	0.42	E	1	ICPMS	4/13/2010	21:56
Vanadium	51	0.78	1.1	17.8		1	ICPMS	4/13/2010	21:56
Zinc	66	2.0	2.1	24.4	E	1	ICPMS	4/13/2010	21:56

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	2.9	5.8	7230	N	1	ICPMS	4/13/2010	22:03
Arsenic	75	0.36	1.2	2.7		1	ICPMS	4/13/2010	22:03
Barium	137	0.16	2.3	113		1	ICPMS	4/13/2010	22:03
Beryllium	9	0.018	0.12	0.63		1	ICPMS	4/13/2010	22:03
Cadmium	111	0.023	0.058	0.062		1	ICPMS	4/13/2010	22:03
Calcium	44	23.3	58.1	1380		1	ICPMS	4/13/2010	22:03
Chromium	52	0.74	1.2	7.7		1	ICPMS	4/13/2010	22:03
Cobalt	59	0.060	0.23	6.0		1	ICPMS	4/13/2010	22:03
Copper	63	0.23	1.2	5.0		1	ICPMS	4/13/2010	22:03
Iron	57	4.7	5.8	9210		1	ICPMS	4/13/2010	22:03
Lead	208	0.18	0.35	13.1		1	ICPMS	4/13/2010	22:03
Magnesium	24	3.7	58.1	1370		1	ICPMS	4/13/2010	22:03
Manganese J-,I6a	55	0.17	0.58	341	N	1	ICPMS	4/13/2010	22:03
Nickel	60	0.17	0.58	6.2	E	1	ICPMS	4/13/2010	22:03
Potassium	39	3.5	11.6	1450		1	ICPMS	4/13/2010	22:03
Selenium	78	0.093	0.58	0.88		1	ICPMS	4/13/2010	22:03
Silver	107	0.026	0.23	0.037	J	1	ICPMS	4/13/2010	22:03
Sodium U,I4d	23	7.6	23.3	59.9		1	ICPMS	4/13/2010	22:03
Thallium	205	0.17	0.23	0.17	U*	1	ICPMS	4/13/2010	22:03
Uranium	238	0.023	0.12	1.5	E	1	ICPMS	4/13/2010	22:03
Vanadium	51	0.85	1.2	20.0		1	ICPMS	4/13/2010	22:03
Zinc	66	2.2	2.3	18.5	E	1	ICPMS	4/13/2010	22:03

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results SDG: Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum J+,I6b	27	2.6	5.2	3210	N	1	ICPMS	4/13/2010	22:10
Arsenic	75	0.32	1.0	1.2		1	ICPMS	4/13/2010	22:10
Barium	137	0.14	2.1	23.4		1	ICPMS	4/13/2010	22:10
Beryllium	9	0.016	0.10	0.39		1	ICPMS	4/13/2010	22:10
Cadmium	111	0.021	0.052	0.021	U	1	ICPMS	4/13/2010	22:10
Calcium	44	20.7	51.7	696		1	ICPMS	4/13/2010	22:10
Chromium	52	0.66	1.0	8.7		1	ICPMS	4/13/2010	22:10
Cobalt	59	0.054	0.21	1.1		1	ICPMS	4/13/2010	22:10
Copper	63	0.21	1.0	12.8		1	ICPMS	4/13/2010	22:10
Iron	57	4.1	5.2	4750		1	ICPMS	4/13/2010	22:10
Lead	208	0.16	0.31	3.0		1	ICPMS	4/13/2010	22:10
Magnesium	24	3.3	51.7	598		1	ICPMS	4/13/2010	22:10
Manganese J-,I6a	55	0.16	0.52	170	N	1	ICPMS	4/13/2010	22:10
Nickel	60	0.16	0.52	7.5	E	1	ICPMS	4/13/2010	22:10
Potassium	39	3.1	10.3	503		1	ICPMS	4/13/2010	22:10
Selenium	78	0.083	0.52	1.2		1	ICPMS	4/13/2010	22:10
Silver	107	0.023	0.21	0.037	J	1	ICPMS	4/13/2010	22:10
Sodium	23	6.7	20.7	323		1	ICPMS	4/13/2010	22:10
Thallium	205	0.16	0.21	0.16	U*	1	ICPMS	4/13/2010	22:10
Uranium	238	0.021	0.10	0.45	E	1	ICPMS	4/13/2010	22:10
Vanadium	51	0.76	1.0	4.2		1	ICPMS	4/13/2010	22:10
Zinc	66	2.0	2.1	24.0	E	1	ICPMS	4/13/2010	22:10

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 7

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.4	40.2	85.0		1	CVAA	4/16/2010	13:06

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.2	39.5	31.8	J	1	CVAA	4/16/2010	13:08

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.0	38.9	21.6	J	1	CVAA	4/16/2010	13:11

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.1	39.1	19.0	J	1	CVAA	4/16/2010	13:13

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	12.8	35.5	22.2	J	1	CVAA	4/16/2010	13:17

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results SDG: Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	13.9	38.8	19.4	J	1	CVAA	4/16/2010	13:19

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	12.4	34.5	14.3	J	1	CVAA	4/16/2010	13:23

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 7

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,l4b	123	0.078	0.60	0.49	J	1	ICPMS	4/15/2010	18:29

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.077	0.59	0.27	J	1	ICPMS	4/15/2010	18:45

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.076	0.58	0.29	J	1	ICPMS	4/15/2010	18:59

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.076	0.59	0.22	J	1	ICPMS	4/15/2010	19:02

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.069	0.53	0.25	J	1	ICPMS	4/15/2010	19:05

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.076	0.58	0.21	J	1	ICPMS	4/15/2010	19:09

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony U,I4	123	0.067	0.52	0.094	J	1	ICPMS	4/15/2010	19:12

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 7

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLM **Client ID:** RE12-10-15449

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**27**	**9.9**	**30.0**	**21.8**	**J**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Antimony	123	1.1	5.0	1.1	U	1	ICPMS	4/13/2010	1:45
Arsenic	75	1.6	10.0	1.6	U	1	ICPMS	4/13/2010	1:45
Barium	135	0.52	2.0	0.52	U	1	ICPMS	4/13/2010	1:45
Beryllium	9	0.13	0.50	0.13	U	1	ICPMS	4/13/2010	1:45
Cadmium	111	0.16	0.50	0.16	U	1	ICPMS	4/13/2010	1:45
Calcium	44	48.7	100	48.7	U	1	ICPMS	4/13/2010	23:50
Chromium	52	3.3	10.0	3.3	U	1	ICPMS	4/13/2010	1:45
Cobalt	59	0.24	2.0	0.24	U	1	ICPMS	4/13/2010	1:45
Copper U,I4b	**65**	**0.47**	**1.0**	**1.6**		**1**	**ICPMS**	**4/13/2010**	**1:45**
Iron	57	20.4	50.0	20.4	U	1	ICPMS	4/13/2010	1:45
Lead	208	0.49	3.0	0.49	U	1	ICPMS	4/13/2010	1:45
Magnesium U,I4b	**24**	**3.1**	**50.0**	**9.6**	**J**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Manganese	55	0.60	2.0	0.60	U	1	ICPMS	4/13/2010	1:45
Nickel	60	0.49	5.0	0.49	U	1	ICPMS	4/13/2010	1:45
Potassium	**39**	**11.6**	**100**	**265**	**E**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Selenium	82	0.48	5.0	0.48	U	1	ICPMS	4/13/2010	1:45
Silver	107	0.20	2.0	0.20	U	1	ICPMS	4/13/2010	1:45
Sodium J,I4a	**23**	**6.9**	**50.0**	**177**		**1**	**ICPMS**	**4/13/2010**	**1:45**
Thallium U,I4	**205**	**0.60**	**2.0**	**0.88**	**J**	**1**	**ICPMS**	**4/13/2010**	**23:50**
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	4/13/2010	1:45
Vanadium	51	3.0	10.0	3.0	U	1	ICPMS	4/13/2010	1:45
Zinc	66	3.7	10.0	3.7	U*	1	ICPMS	4/13/2010	23:50

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 8

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLM **Client ID:** RE12-10-15449

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.12	J	1	CVAA	4/14/2010	18:51

KAL
04/30/10

Comments: Lot #: F0D080495 Sample #: 8

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

Section I.

REQUEST NUMBER: 10-2688 VALIDATION DATE: 04/30/10 LAB CODE: STSL

CONTRACT LABORATORY NAME: TestAmerica Laboratories, Inc. - St. Louis

VALIDATOR: Kevin A. Lambert ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO
- ☐ TPH-DRO
- ☒ GENERAL CHEMISTRY
- ☐ HIGH EXPLOSIVES
- ☐ METALS
- ☐ RADIOCHEMISTRY
- ☐ DIOXIN FURANS
- ☐ PCB CONGENERS
- ☐ LCMSMS HIGH EXPLOSIVES
- ☐ LCMSMS PERCHLORATES
- ☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
- ☐ OTHER (DESCRIBE): total cyanide only

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☒	☐	☐	8. QUANTITATION REPORTS
☐	☐	☒	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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 water ICB/CCB, total cyanide was detected. The associated sample result was a ND and, thus, was not qualified.

Reviewed by: Mary Donivan Level: I Date: 05/03/10

VALIDATOR'S SIGNATURE: Kevin A Lambert DATE: 04/30/10

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST

5120-2

General Chemistry Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
☐	☐	☒	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, I9b	R, I9b
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	6. The ICV and/or CCV were recovered outside the method specific limits.	UJ, I7c	J, I7c
☐	☒	☐	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
☐	☒	☐	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
☐	☐	☒	9. The interference check sample percent recovery value is <50%.	R, I2	J-, I2
☐	☐	☒	10. The interference check sample percent recovery value is ≥50% and <80%.	UJ, I2a	J-, I2a
☐	☐	☒	11. The interference check sample percent recovery value is >120%.	N/A	J+, I2b
☐	☐	☒	12. The interference check sample was not analyzed with the samples.	R, I2c	R, I2c
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☒	☐	☐	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
☐	☒	☐	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	19. The associate matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
☐	☒	☐	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
☐	☒	☐	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
☐	☒	☐	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
☐	☒	☐	29. Duplicate, dilution, or reanalysis	UJ, I88	J, I88
☐	☒	☐	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
☒	☐	☐	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)

Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

General Chemistry

Lot-Sample #...: F0D080495-001 **Work Order #...:** LXNKX **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:12		
Percent Moisture	**17.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

General Chemistry

Lot-Sample #...: F0D080495-002 **Work Order #...:** LXNK6 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:13		
Percent Moisture	**15.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

General Chemistry

Lot-Sample #...: F0D080495-003 **Work Order #...:** LXNK8 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:17		
Percent Moisture	**14.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

General Chemistry

Lot-Sample #...: F0D080495-004 **Work Order #...:** LXNLC **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:18		
Percent Moisture	**14.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

General Chemistry

Lot-Sample #...: F0D080495-005 **Work Order #...:** LXNLE **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 6.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.53	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:19		
Percent Moisture	**6.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

General Chemistry

Lot-Sample #...: F0D080495-006 **Work Order #...:** LXNLH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:23		
Percent Moisture	**14.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

General Chemistry

Lot-Sample #...: F0D080495-007 **Work Order #...:** LXNLK **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 3.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.52	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:24		
Percent Moisture	**3.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KAL
04/30/10

Lot-Sample #...: F0D080495-008 **Work Order #...:** LXNLM **Matrix.....:** WATER
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	5.0	ug/L	SW846 9012A	04/16/10	0102167

Dilution Factor: 1 Analysis Time..: 14:33

KAL
04/30/10

Los Alamos National Laboratory

Client Sample ID: RE12-10-15449

General Chemistry

Hard Copy Required

Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2688C

REQUEST NUMBER: 10-2688

LOS ALAMOS

NATIONAL LABORATORY

CUR 93

ATTN: Mike Franks

Severn Trent Laboraties, Inc., St. Louis

13715 Rider Trail N.

Earth City, MO 63045

TURNAROUND/REPORT DUE: 4/17/2010

TURNAROUND REQ'D: 10

LAB REQUEST COMMENTS: 10 full data package

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	POLY 1P	Met+U+CLO4+CN	Ice	R
RE12-10-15443	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15442	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15448	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15446	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15445	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15447	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15449	1	POLY	METALS+U-GEL	Nitric Acid	W
RE12-10-15449	1	POLY 250 P	SW-846:6850	Ice	W
RE12-10-15449	1	POLY 500 P	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
Printed Name	Signature			Printed Name	Signature		
[illegible]	[illegible]	4/7/10	1400	NICHOLAS OWENS	[illegible]	4/8/10	0915
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By:	Date	Time	Remarks:
Printed Name	Signature		

Hard Copy Required

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Mike Franks
Severn Trent Laboraties, Inc., St. Louis
13715 Rider Trail N.
Earth City, MO 63045

These Samples are on:
LANL Request Number:10-2688
Per Agreement Number:126310021
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 4/7/2010
TURNAROUND/REPORT DUE: 4/17/2010
TURNAROUND REQ'D: 10 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS: 10 full data package

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:6850	1	RE12-10-15442	R	4/6/2010	

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:7470A	1	RE12-10-15449	W	4/6/2010	
	SW-846:7471A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846:9012A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	

Final Page of REQUEST NUMBER 10-2688

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 10-2688

Los Alamos National Lab

Lot #: F0D080495

Joylene Valdez or Keith Greene

Los Alamos National Laboratory
SMO TA-00 Bldg 1237
DP: 03U; MS: 707
Los Alamos, NM 87545

TESTAMERICA LABORATORIES, INC.

Jayna Pohl 'for'
Michael C. Franks
Project Manager

April 20, 2010

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testamericainc.com

TABLE OF CONTENTS - LOT # F0D080495

Case Narrative
LOT NUMBER: **F0D080495**
LANL Request Number: **10-2688**

This report contains the analytical results for the eight samples received under chain of custody number 10-2688 by TestAmerica St. Louis on April 8, 2010. These samples are associated with your Los Alamos National Lab project.

All applicable quality control procedures met method-specified acceptance criteria except as noted in the following case narrative.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

This report is incomplete without the case narrative. All chemical analysis results are based upon dry weight correction as required per the statement of work. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Sample Receiving

Samples were received at 3 °C. No problems were noted at the time of sample receipt.

Perchlorate Method 6850

QC Batch: 0098400
The Method Blank shows no contamination above the reporting limit.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0D070439-002 (request 10-2669). The Matrix Spike recovery is within stated limits. The Duplicate RPD value is within stated limits.

QC Batch: 0102141
The Method Blank shows no contamination above the reporting limit.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0D080498-008 (this request). The Matrix Spike recovery is within stated limits. The Duplicate RPD value is within stated limits.

Total Metals by ICP-MS Method 6020

QC Batch: 0099059
Iron was observed in the Method Blank above the reporting limit. Associated samples in which Iron is not detected above the reporting limit or exhibit concentrations greater than ten (10) times the concentrations observed in the Method Blank do not require re-analysis.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0C250548-001 (request 10-2577). The Matrix Spike recoveries are within stated limits except where noted. The Duplicate RPD values are within stated limits except where noted.

The MS recoveries for Aluminum and Manganese are outside the established QC limits. Matrix interference is physically evident in the sample. Method performance is demonstrated by acceptable LCS recovery.

The RPD is not within method acceptance criteria for Thallium indicating matrix interference. Method performance is demonstrated by acceptable LCS recovery.

The Low Level QC Matrix Spike was performed on F0C080495-002 (this request). The MS recovery for Selenium is outside the established QC limits. Matrix interference is physically evident in the sample. Method performance is demonstrated by acceptable LCS recovery.

The Serial Dilutions for Nickel, Uranium and Zinc are outside the established QC limits, indicating possible matrix interference. All associated samples are flagged accordingly.

Affected Samples:

F0D080495 (1): RE12-10-15444
F0D080495 (2): RE12-10-15443
F0D080495 (3): RE12-10-15442
F0D080495 (4): RE12-10-15448
F0D080495 (5): RE12-10-15446
F0D080495 (6): RE12-10-15445
F0D080495 (7): RE12-10-15447

QC Batch: 0103375

The Method Blank for Antimony shows no contamination above the reporting limit.

The LCS for Antimony is within stated limits.

The Batch QC Matrix Spike and Duplicate for Antimony were performed on F0D080495-001 (this request). The Matrix Spike recovery is within stated limits. The Duplicate RPD value is within stated limits.

The Low Level QC Matrix Spike was performed on F0D080495-002 (this request). Matrix Spike recovery is within stated limits.

QC Batch: 0099286

The Method Blank shows no contamination above the reporting limit.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0D030450-001 (request 10-2653). The Matrix Spike recoveries are within stated limits. The RPD for Zinc is not within method acceptance criteria. Spike recoveries are all within QC limits and method performance is demonstrated by acceptable LCS recovery.

The Low Level QC Matrix Spike was performed on F0D030451-004 (request 10-2655). Matrix Spike recoveries are within stated limits.

The Serial Dilution for Potassium is outside the established QC limits, indicating possible matrix interference. All associated samples are flagged accordingly.
Affected Samples:
F0D080495 (8): RE12-10-15449

Beryllium and Thallium were observed in the CCB above the reporting limit. Associated samples which are either non-detect for the contaminant or exhibit concentrations greater than ten (10) times the concentrations observed in the CCB, do not require re-analysis.
Affected Samples:
F0D080495 (8): RE12-10-15449

Mercury Method 7471A

QC Batch: 0104170
The Method Blank for Mercury shows no contamination above the reporting limit.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0C300511-002 (request 10-2609). The Matrix Spike recovery is within stated limits. The Duplicate RPD value is within stated limits.

Mercury Method 7470A

QC Batch: 0102136
The Method Blank for Mercury shows no contamination above the reporting limit.

The LCS is within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0C230560-005 (request 10-2546). The Matrix Spike recovery is within stated limits. The Duplicate RPD value is within stated limits.

Total Cyanide Method 9012A

QC Batch: 0102319
The Method Blank shows no contamination above the reporting limit.

The HLCS/LLCS are within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0D080495-002 (this request). The MS recovery is within stated limits. The Duplicate RPD value is within stated limits.

QC Batch: 0102167
The Method Blank shows no contamination above the reporting limit.

The HLCS/LLCS are within stated limits.

The Batch QC Matrix Spike and Duplicate were performed on F0D080495-008 (this request). The MS recovery is within stated limits. The Duplicate RPD value is within stated limits.

I certify that this data is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the signature on the front page, has authorized release of the data contained in this hardcopy.

F0D080495

CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Date Received: 2010-04-08 ✓

Analytical Due Date: 2010-04-16 ✓

Report Due Date: 2010-04-19 ✓

Project Manager: MCF

Quote #: 85705 ✓ SDG: F0D080495 ✓

Project: 10-2688 ✓

Los Alamos National Lab

PO#: 63639-001-10

Report to: Joylene Valdez or Keith

Client: 108581 Los Alamos National Laboratory

#SMPS in LOT: 0

Report Type: D Expanded Deliverable

EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp cific

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	RE12-10-15444 ✓			2010-04-06 / 0 ✓	LXNKX	SOLID ✓

SAMPLE COMMENTS:

	XX	9B	SW846	8850	SOLID, 8850, Perchlorate by LC/MS/MS ✓	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
	SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3 ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3 ✓	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	XX	ZV		RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
	XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total ✓	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Project Manager: MCF Quote #: 85705 SDG: F0D080495

Date Received: 2010-04-08

Project: 10-2688 Los Alamos National Lab

Analytical Due Date: 2010-04-16

PO#: 63639-001-10 Report to: Joylene Valdez or Keith

Report Due Date: 2010-04-19

Client: 108581 Los Alamos National Laboratory

Report Type: D Expanded Deliverable

#SMPS in LOT: 0 EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

S	SE	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	SB	MH	SW846 6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	PB	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	NI	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	NA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	MN	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	CA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	BE	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	KX	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	AG	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	BA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	AL	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	CD	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	CO	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	CR	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	CU	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	FE	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
S	HG	O9	SW846 7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	MN	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	NA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	PB	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	MG	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	SE	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	TL	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	UX	MH	SW846 6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	VX	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	NI	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	KX	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	ZN	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	AL	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	SB	MH	SW846 6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	AG	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	AS	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	BA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	BE	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	CA	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	CO	MH	SW846 6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

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Analytical Due Date: 2010-04-16

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Report Type: D Expanded Deliverable

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X	CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
2	RE12-10-15443 ✓			2010-04-06 / 0 ✓	LXNK6	SOLID ✓

SAMPLE COMMENTS:

	XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS ✓	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
	TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3 ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	XX	ZV		RAD SCREEN	SOLID, RAD SCREEN,	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
	XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
	XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
S	XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Project Manager: MCF | Quote #: 85705 | SDG: F0D080495

Date Received: 2010-04-08

Project: 10-2688 | Los Alamos National Lab

Analytical Due Date: 2010-04-16

PO#: 63639-001-10 | Report to: Joylene Valdez or Keith

Report Due Date: 2010-04-19

Client: 108581 Los Alamos National Laboratory

Report Type: D Expanded Deliverable

#SMPS in LOT: 0 EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

S	XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
X	XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
X	XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
3	RE12-10-15442 ✓			2010-04-06 / 0 ✓	LXNK8	SOLID ✓

SAMPLE COMMENTS:

XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS ✓	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3 ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total ✓	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
4	RE12-10-15448 ✓			2010-04-06 / 0 ✓	LXNLC	SOLID ✓

SAMPLE COMMENTS:

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Project Manager: MCF Quote #: 85705 SDG: F0D080495

Date Received: 2010-04-08

Project: 10-2688 Los Alamos National Lab

Analytical Due Date: 2010-04-16

PO#: 63639-001-10 Report to: Joylene Valdez or Keith

Report Due Date: 2010-04-19

Client: 108581 Los Alamos National Laboratory

Report Type: D Expanded Deliverable

#SMPS in LOT: 0 EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN,	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
5	RE12-10-15446 ✓			2010-04-06 / 0 ✓	LXNLE	SOLID ✓

SAMPLE COMMENTS:

XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS ✓	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3 ✓	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Date Received: 2010-04-08

Analytical Due Date: 2010-04-16

Report Due Date: 2010-04-19

Report Type: D Expanded Deliverable

EDD Code: 99

Project Manager: MCF Quote #: 85705 SDG: F0D080495

Project: 10-2688 Los Alamos National Lab

PO#: 63639-001-10 Report to: Joylene Valdez or Keith

Client: 108581 Los Alamos National Laboratory

#SMPS in LOT: 0

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

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Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN,	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	WM	MCAWW	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
6	RE12-10-15445 ✓			2010-04-06 / 0 ✓	LXNLH	SOLID ✓

SAMPLE COMMENTS:

XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59
Date Received: 2010-04-08
Analytical Due Date: 2010-04-16
Report Due Date: 2010-04-19
Report Type: D Expanded Deliverable
EDD Code: 99

Project Manager: MCF Quote #: 85705 SDG: F0D080495
Project: 10-2688 Los Alamos National Lab
PO#: 63639-001-10 Report to: Joylene Valdez or Keith
Client: 108581 Los Alamos National Laboratory
#SMPS in LOT: 0

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"
LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp
Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb
Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN,	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
7	RE12-10-15447 ✓			2010-04-06 / 0 ✓	LXNLK	SOLID ✓

SAMPLE COMMENTS:

XX	9B	SW846	6850	SOLID, 6850, Perchlorate by LC/MS/MS	82	LEACHATE, DI (Routine)	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: I	WRK LOC	06
KX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
UX	MH	SW846	6020	SOLID, 6020 - URANIUM ONLY	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	SOLID, 6020 Antimony only 3of3	NI	Antimony - Method 3050B, hot acid digestion	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
FE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Project Manager: MCF Quote #: 85705 SDG: F0D080495

Date Received: 2010-04-08

Project: 10-2688 Los Alamos National Lab

Analytical Due Date: 2010-04-16

PO#: 63639-001-10 Report to: Joylene Valdez or Keith

Report Due Date: 2010-04-19

Client: 108581 Los Alamos National Laboratory

Report Type: D Expanded Deliverable

#SMPS in LOT: 0 EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

BE	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AS	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	SOLID, 6020, TAL Metals (Metal-GEL) 1of3	GK	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
HG	O9	SW846	7471A	SOLID, 7471, TAL Metals (Metal-GEL) 2of3	70	METALS, TOTAL (Method Exclusive) - Solids	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN,	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	SOLID, 9012A, Cyanide, Total	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	WM	MCAW W	160.3 MOD	SOLID, 160.3 MOD, Percent Moisture	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
8	RE12-10-15449 ✓			2010-04-06 / 0 ✓	LXNLM	WATER ✓

SAMPLE COMMENTS:

XX	9B	SW846	6850	WATER, 6850, Perchlorate by LC/MS/MS ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	9Q	ORG FLAGS FOR INORG, STANDARD	PROT: I	WRK LOC	06
MG	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2 ✓	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
VX	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
UX	MH	SW846	6020	WATER, ICPMS - URANIUM ONLY ✓	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
TL	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SE	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
SB	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BE	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
PB	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NI	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
NA	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
MN	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
KX	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
FE	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CU	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CR	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CO	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CA	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
BA	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AS	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AL	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
AG	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
ZN	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
CD	MH	SW846	6020	WATER, 6020, TAL Metals (Metal-GEL) 1of2	GJ	METALS, TOTAL - 2% HCL	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

F0D080495

CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59,METS

Project Manager: MCF Quote #: 85705 SDG: F0D080495

Date Received: 2010-04-08

Analytical Due Date: 2010-04-16

Project: 10-2688 Los Alamos National Lab

Report Due Date: 2010-04-19

PO#: 63639-001-10 Report to: Joylene Valdez or Keith

Report Type: D Expanded Deliverable

Client: 108581 Los Alamos National Laboratory #SMPS in LOT: 0 EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD ********** METALS AND WETCHEMISTRY ********** Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

HG	O8	SW846	7470A	WATER, 7470, TAL Metals (Metal-GEL) 2of2 ✓	19	METALS, TOTAL (Method exclusive) - Waters	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06
XX	ZV		RAD SCREEN	WATER, RAD SCREEN ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	QP	SW846	9012A	WATER, 9012A, Cyanide, Total ✓	06	DISTILLATION, MICRO/MIDI - Acid	9A	ORG FLAGS FOR INORG, FORMS	PROT: I	WRK LOC	06

Hard Copy Required

Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2688C

REQUEST NUMBER: 10-2688

LOS ALAMOS

NATIONAL LABORATORY

CUR 93

ATTN: Mike Franks

Severn Trent Laboratles, Inc., St. Louis

13715 Rider Trail N.

Earth City, MO 63045

TURNAROUND/REPORT DUE: 4/17/2010

TURNAROUND REQ'D: 10

LAB REQUEST COMMENTS: 10 full data package

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	POLY LP	Met+U+CLO4+CN	Ice	R
RE12-10-15443	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15442	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15448	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15446	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15445	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15447	1	POLY	Met+U+CLO4+CN	Ice	R
RE12-10-15449	1	POLY	METALS+U-GEL	Nitric Acid	W
RE12-10-15449	1	POLY 250 P	SW-846:6850	Ice	W
RE12-10-15449	1	POLY 500 P	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
Printed Name	Signature			Printed Name	Signature		
[illegible]	[illegible]	4/7/10	1400	NICHOLAS OWENS	[illegible]	4/8/10	0915
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By:		Date	Time	Remarks:
Printed Name	Signature			

Hard Copy Required

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Mike Franks
Severn Trent Laboraties, Inc., St. Louis
13715 Rider Trail N.
Earth City, MO 63045

These Samples are on:
LANL Request Number:10-2688
Per Agreement Number:126310021
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 4/7/2010
TURNAROUND/REPORT DUE: 4/17/2010
TURNAROUND REQ'D: 10 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS: 10 full data package

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:6850	1	RE12-10-15442	R	4/6/2010	

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2688

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	
	SW-846:7470A	1	RE12-10-15449	W	4/6/2010	
	SW-846:7471A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846:9012A	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
		1	RE12-10-15449	W	4/6/2010	

Final Page of REQUEST NUMBER 10-2688

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F0D080487
489
495
501

93

CONDITION UPON RECEIPT FORM

Client: LANL
Quote No: 85724/85705
COC/RFA No: SEE BELOW

Initiated By: NVO Date: 4/8/10 Time: 0915

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7209 7850 6840	6.	1. 3	6.
2. 7209 7850 6830	7.	2. AMBIENT	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N	Sample received in proper containers?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y N	Was sample received broken?	13.	Y N N/A	Was Internal COC/Workshare received?
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was pH taken by original TestAmerica lab?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:
10-2684 - TAT STD per MF
10-2687 - TAT 4/16 - 4/19 per MF
10-2689
10-2688

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: Jaynak Pohl Date: 4/9/10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

METHODS SUMMARY

F0D080495

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Cyanide, Total	SW846 9012A	SW846 9012A
ICP-MS (6020)	SW846 6020	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Perchlorate by 6850	SW846 6850	

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F0D080495

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LXNKX	001	RE12-10-15444	04/06/10	
LXNK6	002	RE12-10-15443	04/06/10	
LXNK8	003	RE12-10-15442	04/06/10	
LXNLC	004	RE12-10-15448	04/06/10	
LXNLE	005	RE12-10-15446	04/06/10	
LXNLH	006	RE12-10-15445	04/06/10	
LXNLK	007	RE12-10-15447	04/06/10	
LXNLM	008	RE12-10-15449	04/06/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

F0D080495

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
002	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
003	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
004	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
005	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
006	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

F0D080495

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	SOLID	SW846 6020		0099059	0099047
	SOLID	SW846 6020		0103375	0103223
	SOLID	SW846 7471A		0104170	0104106
	SOLID	SW846 9012A		0102319	0106230
	SOLID	MCAWW 160.3 MOD		0102368	0102226
	SOLID	SW846 6850		0098400	0098225
008	WATER	SW846 6020		0099286	0099226
	WATER	SW846 7470A		0102136	0102092
	WATER	SW846 9012A		0102167	0106248
	WATER	SW846 6850		0102141	0102073

Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-001 **Work Order #...:** LXNKX1A6 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:15
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	6.0	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-002 **Work Order #...:** LXNK61AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:38
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.9	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-003 **Work Order #...:** LXNK81AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:45
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.8	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-004 **Work Order #...:** LXNLC1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:53
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.9	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-005 **Work Order #...:** LXNLE1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 13:00
Dilution Factor: 1
% Moisture.....: 6.2 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.3	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-006 **Work Order #...:** LXNLH1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 13:08
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.8	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-007 **Work Order #...:** LXNLK1AH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 13:15
Dilution Factor: 1
% Moisture.....: 3.3 **Method.....:** SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	5.2	ug/kg

NOTE(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15449

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495-008 **Work Order #...:** LXNLM1A5 **Matrix.....:** WATER
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/12/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0102141 **Analysis Time..:** 13:46
Dilution Factor: 1

Method.....: SW846 6850

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

METHOD BLANK REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXN9L1AA **Matrix.....:** SOLID
MB Lot-Sample #: F0D080000-400
Prep Date.....: 04/08/10 **Analysis Time..:** 11:37
Analysis Date..: 04/14/10 **Prep Batch #...:** 0098400
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Perchlorate	ND	5.0	ug/kg	SW846 6850

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXTTK1AA **Matrix.....:** WATER
MB Lot-Sample #: F0D120000-141
Prep Date.....: 04/12/10 **Analysis Time..:** 13:31
Analysis Date..: 04/14/10 **Prep Batch #...:** 0102141
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Perchlorate	ND	0.50	ug/L	SW846 6850

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXN9L1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F0D080000-400
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 11:45
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Perchlorate	**114**	**(80 - 120)**	**SW846 6850**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXTTK1AC **Matrix.....:** WATER
LCS Lot-Sample#: F0D120000-141
Prep Date.....: 04/12/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0102141 **Analysis Time..:** 13:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Perchlorate	**111**	**(80 - 120)**	**SW846 6850**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495 **Work Order #...:** LXLR41EW **Matrix.....:** SOLID
MS Lot-Sample #: F0D070439-002
Date Sampled...: 04/01/10 **Date Received..:** 04/07/10
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400
Dilution Factor: 1 **Percnt Moisture:** 9.4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Perchlorate	**114**	**(70 - 130)**	**SW846 6850**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results or reporting limits flagged with a ** have not been corrected for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC - Mass. Spec.

Lot-Sample #...: F0D080495 **Work Order #...:** LXNLM1A7 **Matrix.....:** WATER
MS Lot-Sample #: F0D080495-008
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
Prep Date.....: 04/12/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0102141
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Perchlorate	**113**	**(80 - 120)**	**SW846 6850**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXLR41A5 -SMP **Matrix.....:** SOLID
SD Lot-Sample #: F0D070439-002 LXLR41E0 -DUP
Date Sampled...: 04/01/10 **Date Received..:** 04/07/10 **MS Run #.....:**
Prep Date.....: 04/08/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0098400 **Analysis Time..:** 12:00
Dilution Factor: 1
% Moisture.....: 9.4

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
Perchlorate	ND	ND	ug/kg	0	(0-15)	SW846 6850

SAMPLE DUPLICATE EVALUATION REPORT

HPLC - Mass. Spec.

Client Lot #...: F0D080495 **Work Order #...:** LXNLM1A5 -SMP **Matrix.....:** WATER
SD Lot-Sample #: F0D080495-008 LXNLM1A8 -DUP
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10 **MS Run #.....:**
Prep Date.....: 04/12/10 **Analysis Date..:** 04/14/10
Prep Batch #...: 0102141 **Analysis Time..:** 13:53
Dilution Factor: 1

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
Perchlorate	ND	0.043 J	ug/L	200	(0-15)	SW846 6850

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

General Chemistry

Lot-Sample #...: F0D080495-001 **Work Order #...:** LXNKX **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:12		
Percent Moisture	**17.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

General Chemistry

Lot-Sample #...: F0D080495-002 **Work Order #...:** LXNK6 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:13		
Percent Moisture	**15.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

General Chemistry

Lot-Sample #...: F0D080495-003 **Work Order #...:** LXNK8 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:17		
Percent Moisture	**14.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

General Chemistry

Lot-Sample #...: F0D080495-004 **Work Order #...:** LXNLC **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:18		
Percent Moisture	**14.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

General Chemistry

Lot-Sample #...: F0D080495-005 **Work Order #...:** LXNLE **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 6.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.53	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:19		
Percent Moisture	**6.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

General Chemistry

Lot-Sample #...: F0D080495-006 **Work Order #...:** LXNLH **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:23		
Percent Moisture	**14.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

General Chemistry

Lot-Sample #...: F0D080495-007 **Work Order #...:** LXNLK **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 3.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.52	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1		Analysis Time..: 18:24		
Percent Moisture	**3.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/10**	**0102368**
		Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Los Alamos National Laboratory

Client Sample ID: RE12-10-15449

General Chemistry

Lot-Sample #...: F0D080495-008 **Work Order #...:** LXNLM **Matrix.....:** WATER
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	5.0	ug/L	SW846 9012A	04/16/10	0102167
		Dilution Factor: 1		Analysis Time..: 14:33		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: LX4C51AA		MB Lot-Sample #:	F0D120000-167	
	ND	5.0	ug/L	SW846 9012A	04/16/10	0102167
		Dilution Factor: 1				
		Analysis Time..: 14:30				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: LX3151AA		MB Lot-Sample #:	F0D120000-319	
	ND	0.50	mg/kg	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1				
		Analysis Time..: 18:08				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: LX3151AC	LCS Lot-Sample#: F0D120000-319		
	97	(80 - 120)	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1	Analysis Time..: 18:09		
Cyanide, Total		Work Order #: LX3151AD	LCS Lot-Sample#: F0D120000-319		
	90	(80 - 120)	SW846 9012A	04/13-04/15/10	0102319
		Dilution Factor: 1	Analysis Time..: 18:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: LX4C51AC	LCS Lot-Sample#: F0D120000-167		
	95	(80 - 120)	SW846 9012A	04/16/10	0102167
		Dilution Factor: 1	Analysis Time..: 14:31		
Cyanide, Total		Work Order #: LX4C51AD	LCS Lot-Sample#: F0D120000-167		
	94	(80 - 120)	SW846 9012A	04/16/10	0102167
		Dilution Factor: 1	Analysis Time..: 14:32		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** SOLID
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

Percnt Moisture: 17

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #...: LXNK61A9		MS Lot-Sample #: F0D080495-002	
	84	(75 - 125)	SW846 9012A	04/13-04/15/10	0102319

Dilution Factor: 1 Analysis Time..: 18:13

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Matrix.....:** WATER
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #...: LXNLM1A9		MS Lot-Sample #: F0D080495-008	
	98	(75 - 125)	SW846 9012A	04/16/10	0102167

Dilution Factor: 1 Analysis Time..: 14:33

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Work Order #...:** LXNK6-SMP **Matrix.....:** SOLID
LXNK6-DUP
Date Sampled...: 04/06/10 **Date Received..:** 04/08/10
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total						SD Lot-Sample #:	F0D080495-002	
	ND	ND	mg/kg	0	(0-20)	SW846 9012A	04/13-04/15/10	0102319

Dilution Factor: 1 Analysis Time..: 18:13

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Work Order #...:** LXNLM-SMP LXNLM-DUP **Matrix.....:** WATER

Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total						SD Lot-Sample #:	F0D080495-008	
	ND	ND	ug/L	0	(0-20)	SW846 9012A	04/16/10	0102167

Dilution Factor: 1 Analysis Time..: 14:33

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0D080495 **Work Order #...:** LXNJ9-SMP LXNJ9-DUP **Matrix.....:** SOLID

Date Sampled...: 04/06/10 **Date Received..:** 04/08/10

% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F0D080489-001	
	17.1	17.6	%	3.2	(0-30)	MCAWW 160.3 MOD	04/13-04/14/10	0102368

Dilution Factor: 1 Analysis Time..: 00:00

LC/MS/MS SAMPLE AND QC DATA

Form I (s)

Perchlorates

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D070439 002
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/07/10
Work Order: LXLR41A5 Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:9.4

QC Batch: 0098400

Client Sample Id: INTRA-LAB QC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.5	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 001
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNKX1A6 Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:17

QC Batch: 0098400

Client Sample Id: RE12-10-15444

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	6.0	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 002
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNK61AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:16

QC Batch: 0098400

Client Sample Id: RE12-10-15443

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.9	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 003
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNK81AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:14

QC Batch: 0098400

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.8	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 004
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNLC1AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:15

QC Batch: 0098400

Client Sample Id: RE12-10-15448

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.9	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 005
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNLE1AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:6.2

QC Batch: 0098400

Client Sample Id: RE12-10-15446

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.3	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 006
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNLH1AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:14

QC Batch: 0098400

Client Sample Id: RE12-10-15445

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.8	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080495 007
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/08/10
Work Order: LXNLK1AH Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:3.3

QC Batch: 0098400

Client Sample Id: RE12-10-15447

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.2	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) WATER Lab Sample ID:F0D080495 008
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 10 / mL Date Received: 04/08/10
Work Order: LXNLM1A5 Date Extracted:04/12/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0102141

Client Sample Id: RE12-10-15449

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
14797-73-0	Perchlorate	0.50	U

Los Alamos National Laboratory
METHOD BLANK COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080000 400
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/07/10
Work Order: LXN9L1AA Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0098400

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.0	U

Los Alamos National Laboratory
METHOD BLANK COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) WATER Lab Sample ID:F0D120000 141
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 10 / mL Date Received: 04/08/10
Work Order: LXTTK1AA Date Extracted:04/12/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0102141

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
14797-73-0	Perchlorate	0.50	U

Los Alamos National Laboratory
CHECK SAMPLE COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D080000 400
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/07/10
Work Order: LXN9L1AC Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0098400

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	114	

Los Alamos National Laboratory
CHECK SAMPLE COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) WATER Lab Sample ID:F0D120000 141
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 10 / mL Date Received: 04/08/10
Work Order: LXTTK1AC Date Extracted:04/12/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0102141

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
14797-73-0	Perchlorate	11.1	

Los Alamos National Laboratory
MATRIX SPIKE COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D070439 002
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/07/10
Work Order: LXLR41EW Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:9.4

QC Batch: 0098400

Client Sample Id: LAB MS/MSD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	126	

Los Alamos National Laboratory
MATRIX SPIKE COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) WATER Lab Sample ID:F0D080495 008
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 10 / mL Date Received: 04/08/10
Work Order: LXNLM1A7 Date Extracted:04/12/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0102141

Client Sample Id: RE12-10-15449

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
14797-73-0	Perchlorate	11.3	

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) SOLID Lab Sample ID:F0D070439 002
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 2 / g Date Received: 04/07/10
Work Order: LXLR41E0 Date Extracted:04/08/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:9.4

QC Batch: 0098400

Client Sample Id: INTRA-LAB QC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
14797-73-0	Perchlorate	5.5	U

Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080495

Matrix: (soil/water) WATER Lab Sample ID:F0D080495 008
Method: SW846 6850
6850, Perchlorate by LC/MS/MS

Sample WT/Vol: 10 / mL Date Received: 04/08/10
Work Order: LXNLM1A8 Date Extracted:04/12/10
Dilution factor: 1 Date Analyzed: 04/14/10
Moisture %:NA

QC Batch: 0102141

Client Sample Id: RE12-10-15449 DUP

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
14797-73-0	Perchlorate	0.043	J

FORM I

LC/MS/MS ADDITIONAL FORMS

SW846 6850 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Los Alamos National Laboratory

Lab Code: TALSTL SDG No: F0D080495

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: F0D070439 WO #: LXLR41EW
BATCH: 0098400

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Perchlorate	110	ND	126	114	70- 130	

NOTES(S):

Results or reporting limits flagged with a ** have not been corrected for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

SW846 6850 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Los Alamos National Laboratory

Lab Code: TALSTL SDG No: F0D080495

Matrix Spike ID: RE12-10-15449

Lot #: F0D080495 WO #: LXNLM1A7
BATCH: 0102141

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Perchlorate	10.0	ND	11.3	113	80- 120	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

SW846 6850 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Los Alamos National Laboratory

Lab Code: TALSTL SDG No: F0D080495

Lot #: F0D080000 WO #: LXN9L1AC
BATCH: 0098400

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Perchlorate	100	114	114	80- 120	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

SW846 6850 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Los Alamos National Laboratory

Lab Code: TALSTL SDG No: F0D080495

Lot #: F0D120000 WO #: LXTTK1AC
BATCH: 0102141

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Perchlorate	10.0	11.1	111	80- 120	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

LXN9L1AA

SW846 6850 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number:F0D080495

Lab File ID: T04141029

Lot Number: F0D080495

Date Analyzed: 04/14/10

Time Analyzed: 11:37

Matrix: SOLID

Date Extracted:04/08/10

GC Column: IONPACAG16 ID: 2.00

Extraction Method:

Instrument ID: LCMSMST

Level:(low/med)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	LXLR41A5	T04141031	04/14/10	11:52
02	LAB MS/MSD	LXLR41EW S	T04141033	04/14/10	12:07
03	INTRA-LAB QC	LXLR41E0 X	T04141032	04/14/10	12:00
04	RE12-10-15444	LXNKX1A6	T04141034	04/14/10	12:15
05	RE12-10-15443	LXNK61AH	T04141037	04/14/10	12:38
06	RE12-10-15442	LXNK81AH	T04141038	04/14/10	12:45
07	RE12-10-15448	LXNLC1AH	T04141039	04/14/10	12:53
08	RE12-10-15446	LXNLE1AH	T04141040	04/14/10	13:00
09	RE12-10-15445	LXNLH1AH	T04141041	04/14/10	13:08
10	RE12-10-15447	LXNLK1AH	T04141042	04/14/10	13:15
11	CHECK SAMPLE	LXN9L1AC C	T04141030	04/14/10	11:45
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

BLANK WORKORDER NO.

LXTTK1AA

SW846 6850 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number:F0D080495

Lab File ID: T04141051

Lot Number: F0D080495

Date Analyzed: 04/14/10

Time Analyzed: 13:31

Matrix: WATER

Date Extracted:04/12/10

GC Column: IONPACAG16 ID: 2.00

Extraction Method:

Instrument ID: LCMSMST

Level:(low/med)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RE12-10-15449	LXNLM1A5	T04141053	04/14/10	13:46
02	RE12-10-15449	LXNLM1A7 S	T04141055	04/14/10	14:01
03	RE12-10-15449 DUP	LXNLM1A8 X	T04141054	04/14/10	13:53
04	CHECK SAMPLE	LXTTK1AC C	T04141052	04/14/10	13:38
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

LC/MS/MS STANDARDS DATA

INITIAL CALIBRATION DATA

CALIBRATION VERIFICATION DATA

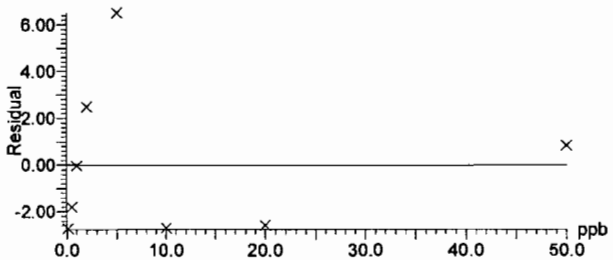
Quantify Calibration Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

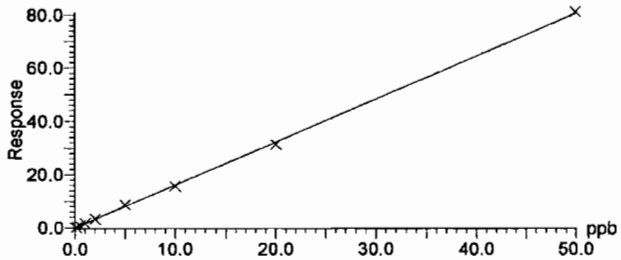
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

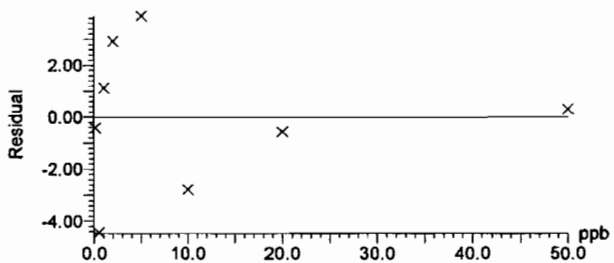
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.pro\Curvedb\TPER_100414.cdb 14 Apr 2010 09:37:27

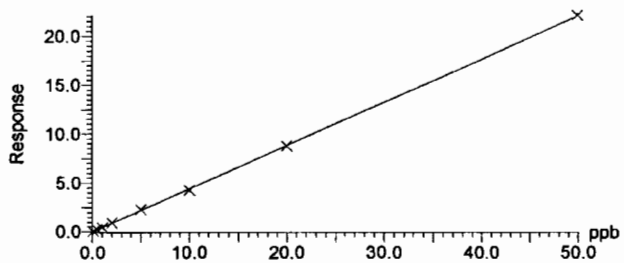
Compound name: Perchlorate
Correlation coefficient: r = 0.999721, r^2 = 0.999443
Calibration curve: 1.60893 * x + -0.0607228
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None





Compound name: Perchlorate (Qualifier)
Correlation coefficient: r = 0.999886, r^2 = 0.999772
Calibration curve: 0.441187 * x + -0.0223117
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None





JL
4/15/10

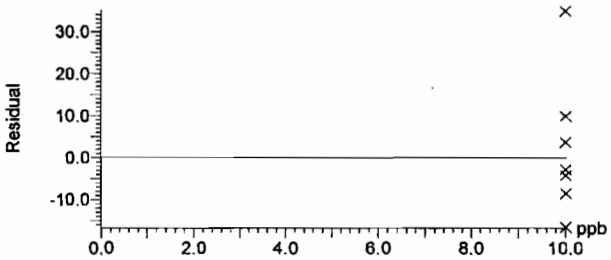
METHOD 6850 PERCHLORATE BY LCMSMS

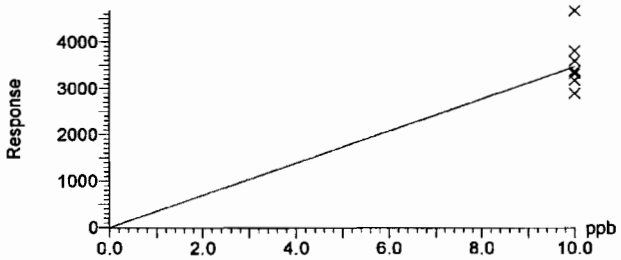
Quantify Calibration Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Compound name: Perchlorate (Cl18O4-)
Response Factor: 345.802
RRF SD: 58.1495, % Relative SD: 16.8158
Response type: External Std, Area
Curve type: RF





Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

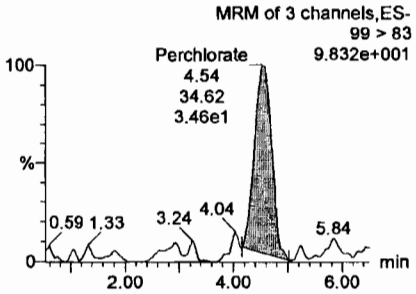
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

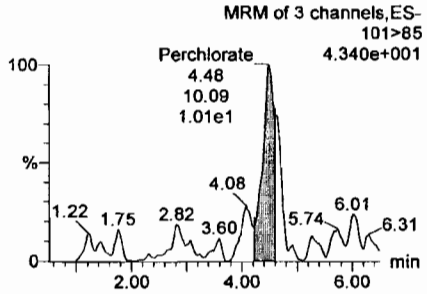
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.pro\Curvedb\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141003
Date: 14-Apr-2010
Time: 08:19:23
ID: LCMS0088-0095/10
Description: ICAL-1 0.1
Vial: 1:3

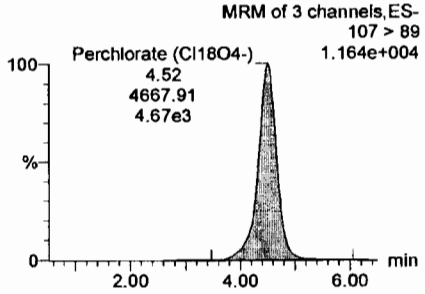
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc.	Area	IS Area	Response	Det. Flags	ppb	%Rec.	%Dev
1	1	Perchlorate	ICAL-1 0.1	LCMS0088-0095/10	4.54	0.100	34.617	4667.910	0.096	bb	0.0973	97.3	-2.7
2	3	Perchlorate (Cl18O4-)	ICAL-1 0.1	LCMS0088-0095/10	4.52	0.100	4667.910		4667.910	bd	13.4988	135.0	35.0

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	11.751	1.0	1.0	1.0	3.430	3.080	NO
2	107 > 89		1931.312	1.0	1.0	1.0			

nam
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

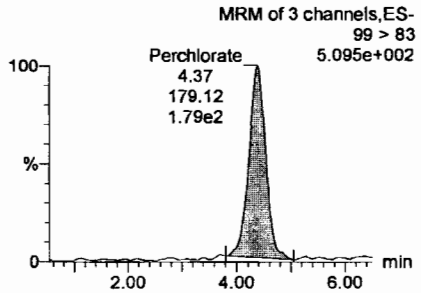
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

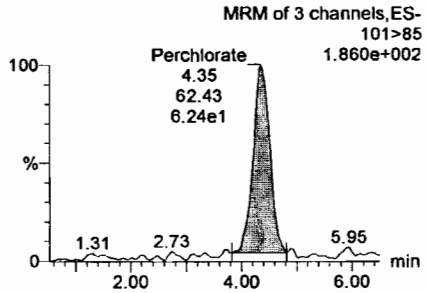
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141004
Date: 14-Apr-2010
Time: 08:26:51
ID: LCMS0088-0095/10
Description: ICAL-2 0.5
Vial: 1:4

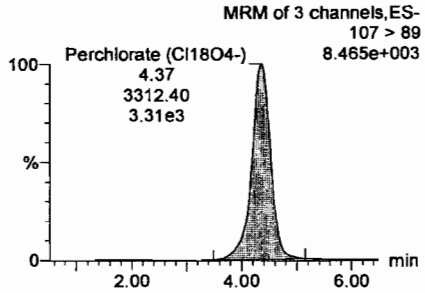
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-2 0.5	LCMS0088-0095/10	4.37	0.500	179.116	3312.400	0.729	bb	0.4910	98.2	-1.8
2	3	Perchlorate (Cl18O4-)	ICAL-2 0.5	LCMS0088-0095/10	4.37	0.500	3312.400		3312.400	bb	9.5789	95.8	-4.2

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	122.072	1.0	1.0	1.0	2.869	3.080	NO
2	107 > 89		1248.108	1.0	1.0	1.0			

MPM
4/15/10

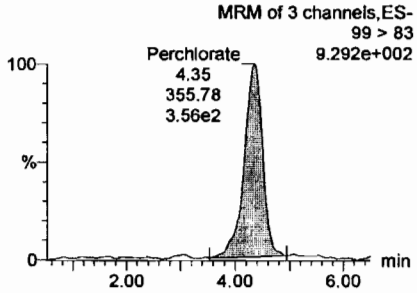
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

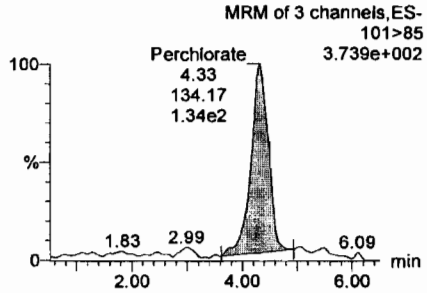
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141005
Date: 14-Apr-2010
Time: 08:34:24
ID: LCMS0088-0095/10
Description: ICAL-3 1.0
Vial: 1:5

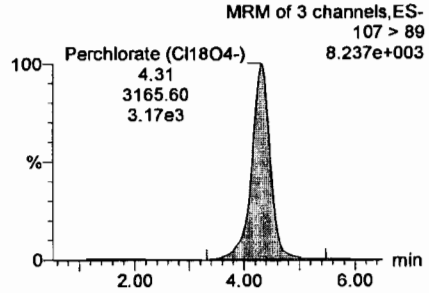
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-3 1.0	LCMS0088-0095/10	4.35	1.000	355.777	3165.603	1.548	bb	0.9997	100.0	-0.0
2	3	Perchlorate (Cl18O4-)	ICAL-3 1.0	LCMS0088-0095/10	4.31	1.000	3165.603		3165.603	bb	9.1544	91.5	-8.5

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	34.709	1.0	1.0	1.0	2.652	3.080	NO
2	107 > 89		857.436	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

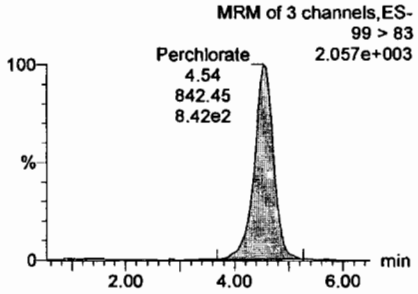
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

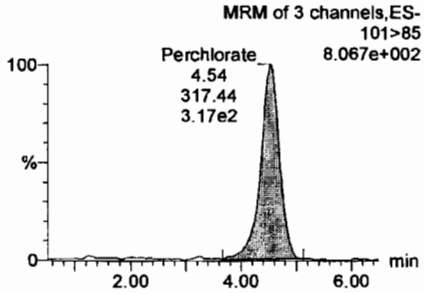
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141006
Date: 14-Apr-2010
Time: 08:41:57
ID: LCMS0088-0095/10
Description: ICAL-4 2.0
Vial: 1:6

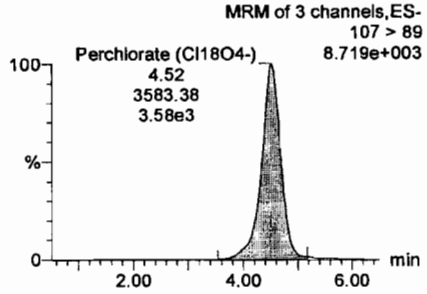
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-4 2.0	LCMS0088-0095/10	4.54	2.000	842.447	3583.379	3.237	bb	2.0495	102.5	2.5
2	3	Perchlorate (Cl18O4-)	ICAL-4 2.0	LCMS0088-0095/10	4.52	2.000	3583.379		3583.379	bd	10.3625	103.6	3.6

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	552.050	1.0	1.0	1.0	2.654	3.080	NO
2	107 > 89		1480.856	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

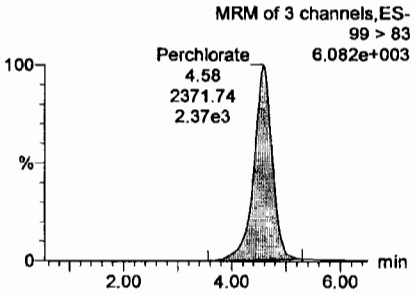
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

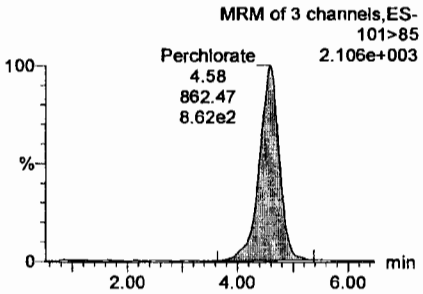
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141007
Date: 14-Apr-2010
Time: 08:49:31
ID: LCMS0088-0095/10
Description: ICAL-5 5.0
Vial: 1:7

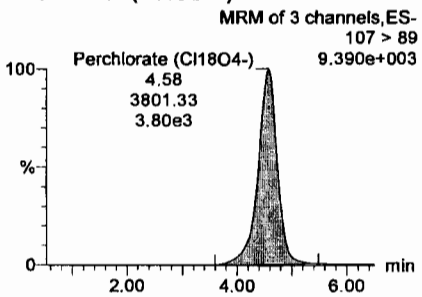
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-5 5.0	LCMS0088-0095/10	4.58	5.000	2371.745	3801.327	8.508	bb	5.3258	106.5	6.5
2	3	Perchlorate (Cl18O4-)	ICAL-5 5.0	LCMS0088-0095/10	4.58	5.000	3801.327		3801.327	bb	10.9928	109.9	9.9

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	539.404	1.0	1.0	1.0	2.750	3.080	NO
2	107 > 89		1467.728	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

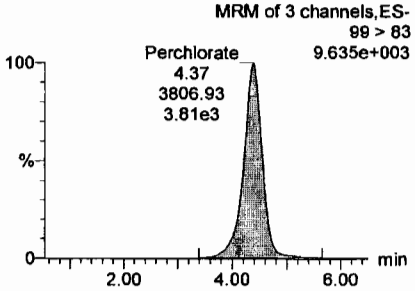
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

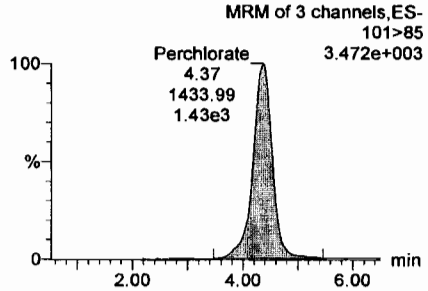
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141008
Date: 14-Apr-2010
Time: 08:57:04
ID: LCMS0088-0095/10
Description: ICAL-6 10.0
Vial: 1:8

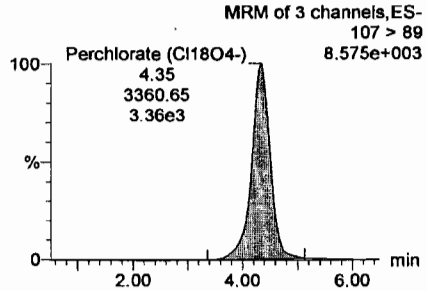
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-6 10.0	LCMS0088-0095/10	4.37	10.000	3806.932	3360.648	15.595	bb	9.7305	97.3	-2.7
2	3	Perchlorate (Cl18O4-)	ICAL-6 10.0	LCMS0088-0095/10	4.35	10.000	3360.648		3360.648	bb	9.7184	97.2	-2.8

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	821.988	1.0	1.0	1.0	2.655	3.080	NO
2	107 > 89		1358.537	1.0	1.0	1.0			

4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

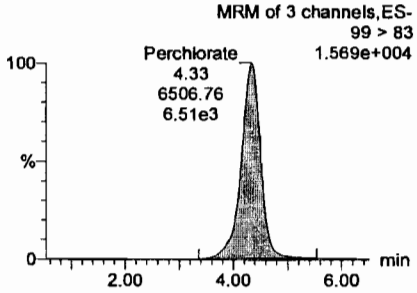
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

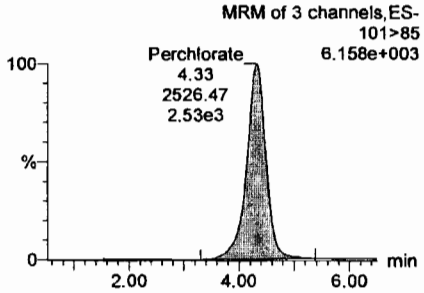
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141009
Date: 14-Apr-2010
Time: 09:04:37
ID: LCMS0088-0095/10
Description: ICAL-7 20.0
Vial: 1:9

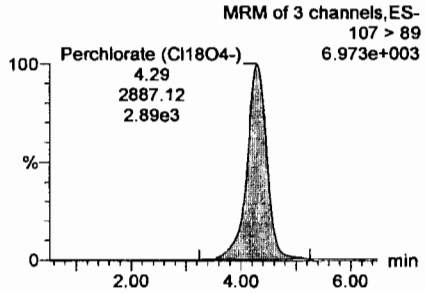
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-7 20.0	LCMS0088-0095/10	4.33	20.000	6506.755	2887.118	31.288	bb	19.4842	97.4	-2.6
2	3	Perchlorate (Cl18O4-)	ICAL-7 20.0	LCMS0088-0095/10	4.29	20.000	2887.118		2887.118	bb	8.3490	83.5	-16.5

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1226.456	1.0	1.0	1.0	2.575	3.080	NO
2	107 > 89		839.107	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

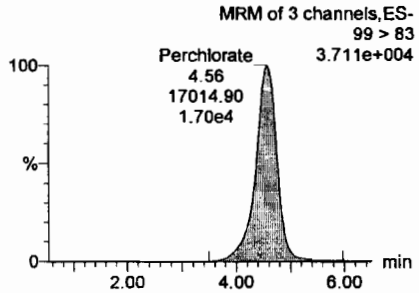
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CURVE.qld

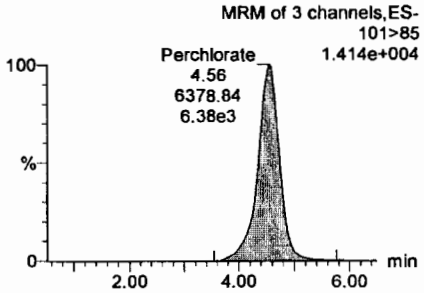
Last Altered: Wednesday, April 14, 2010 09:37:27 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:44 Central Daylight Time

Name: T04141010
Date: 14-Apr-2010
Time: 09:12:10
ID: LCMS0088-0095/10
Description: ICAL-8 50.0
Vial: 1:10

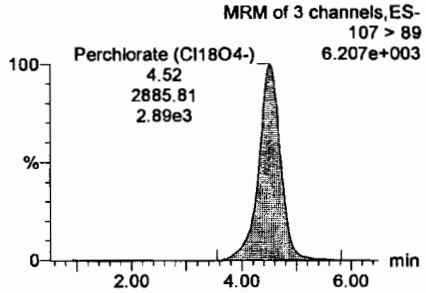
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICAL-8 50.0	LCMS0088-0095/10	4.56	50.000	17014.898	2885.814	81.065	bb	50.4219	100.8	0.8
2	3	Perchlorate (Cl18O4-)	ICAL-8 50.0	LCMS0088-0095/10	4.52	50.000	2885.814		2885.814	bb	8.3453	83.5	-16.5

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	176.516	1.0	1.0	1.0	2.667	3.080	NO
2	107 > 89		449.376	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

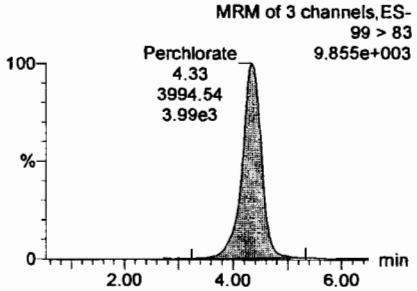
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_ICVDSS.qld

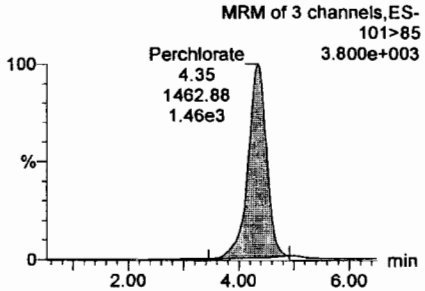
Last Altered: Wednesday, April 14, 2010 09:43:36 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:55:10 Central Daylight Time

Name: T04141012
Date: 14-Apr-2010
Time: 09:27:17
ID: LCMS0067/10
Description: ICV 10
Vial: 1:12

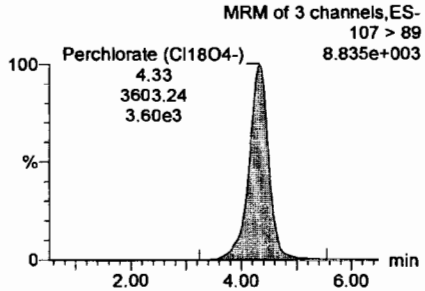
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std Conc	Area	IS Area	Response	Det Flags	ppb	%Rec	%Dev
1	1	Perchlorate	ICV 10	LCMS0067/10	4.33	10.000	3994.544	3603.235	15.146	bb	9.4514	94.5	-5.5
2	3	Perchlorate (Cl18O4-)	ICV 10	LCMS0067/10	4.33	10.000	3603.235		3603.235	bb	10.4199	104.2	4.2

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1028.820	1.0	1.0	1.0	2.731	3.080	NO
2	107 > 89		1291.014	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

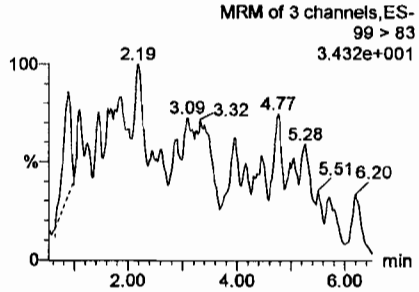
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_ICVDSS.qld

Last Altered: Wednesday, April 14, 2010 09:43:36 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:55:10 Central Daylight Time

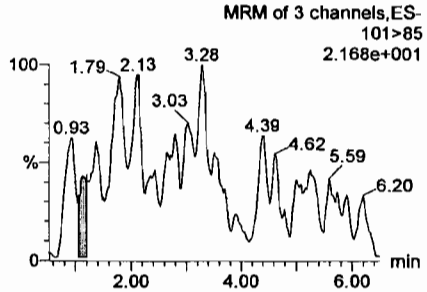
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141011
Date: 14-Apr-2010
Time: 09:19:47
ID:
Description: INST BLK
Vial: 1:1

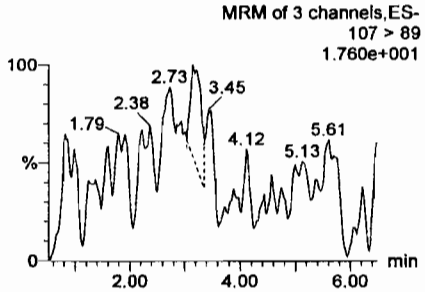
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	INST BLK							MM-			
2	3	Perchlorate (Cl18O4-)	INST BLK							MM-			

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 63	101>85		1.0	1.0	1.0	0.000	3.080	YES
2	107 > 89			1.0	1.0	1.0			

4/15/10

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

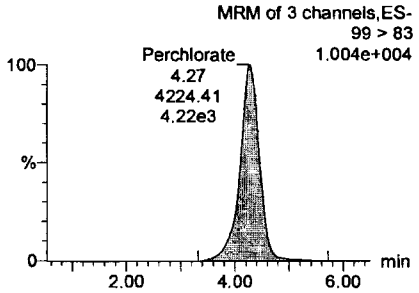
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCV.qld

Last Altered: Wednesday, April 14, 2010 12:42:13 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:55:22 Central Daylight Time

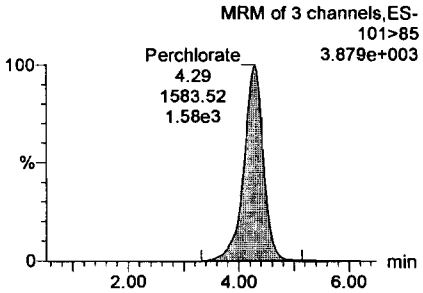
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141024
Date: 14-Apr-2010
Time: 11:00:00
ID: LCMS0067/10
Description: CCV 10.0
Vial: 1:8

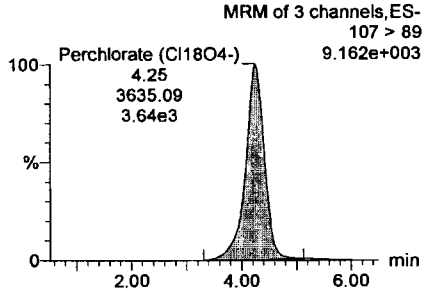
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	CCV 10.0	LCMS0067/10	4.27	10.000	4224.406	3635.094	15.977	bd	9.9682	99.7	-0.3
2	3	Perchlorate (Cl18O4-)	CCV 10.0	LCMS0067/10	4.25	10.000	3635.094		3635.094	bd	10.5121	105.1	5.1

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1379.609	1.0	1.0	1.0	2.668	3.080	NO
2	107 > 89		175.637	1.0	1.0	1.0			

4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

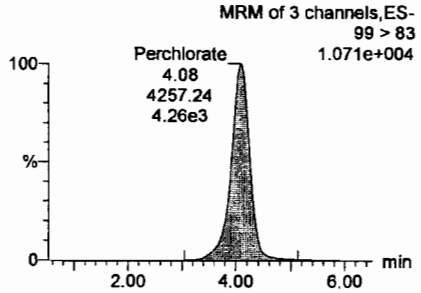
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCVDSS.qld

Last Altered: Wednesday, April 14, 2010 12:47:44 Central Daylight Time
Printed: Thursday, April 15, 2010 06:56:02 Central Daylight Time

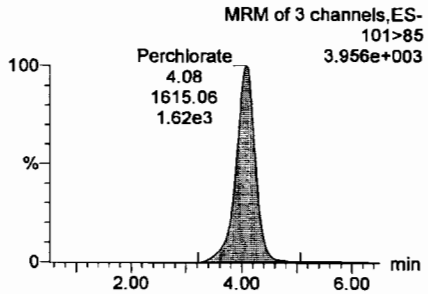
Method: C:\MassLynx\perchlorate.pro\Methdb\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141035
Date: 14-Apr-2010
Time: 12:23:06
ID: LCMS0067/10
Description: CCV 10.0
Vial: 1:8

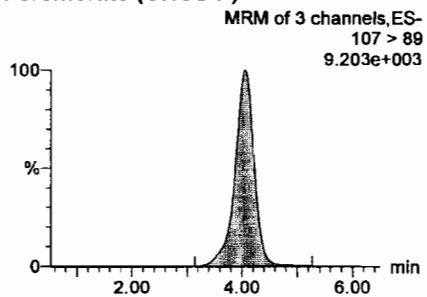
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	CCV 10.0	LCMS0067/10	4.08	10.000	4257.238	3709.977	15.828	bd	9.8756	98.8	-1.2
2	3	Perchlorate (Cl18O4-)	CCV 10.0	LCMS0067/10	4.06	10.000	3709.977		3709.977	bb	10.7286	107.3	7.3

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	128.858	1.0	1.0	1.0	2.636	3.080	NO
2	107 > 89		922.331	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

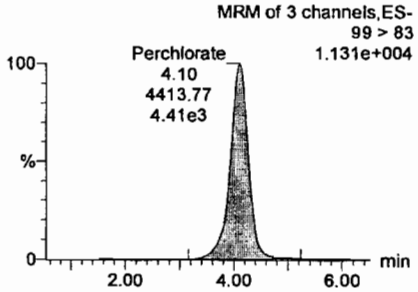
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCV2.qld

Last Altered: Wednesday, April 14, 2010 14:02:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:55:58 Central Daylight Time

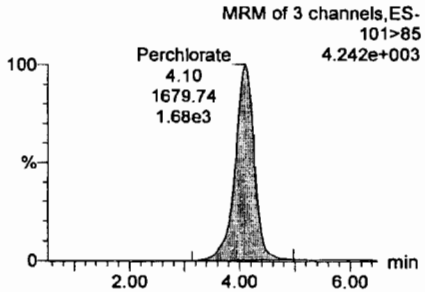
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141050
Date: 14-Apr-2010
Time: 13:23:33
ID: LCMS0067/10
Description: CCV 10.0
Vial: 1:8

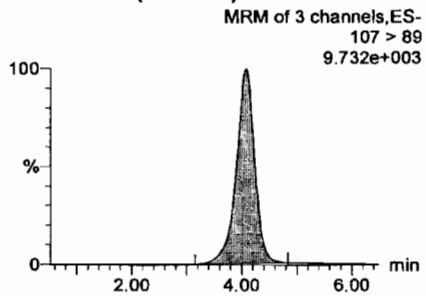
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	CCV 10.0	LCMS0067/10	4.10	10.000	4413.767	3706.531	16.440	bb	10.2557	102.6	2.6
2	3	Perchlorate (Cl18O4-)	CCV 10.0	LCMS0067/10	4.08	10.000	3706.531		3706.531	bb	10.7186	107.2	7.2

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	808.286	1.0	1.0	1.0	2.628	3.080	NO
2	107 > 89		118.696	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

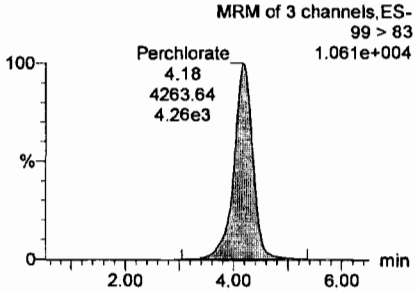
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCV2DSS2.qld

Last Altered: Wednesday, April 14, 2010 14:24:54 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:56:14 Central Daylight Time

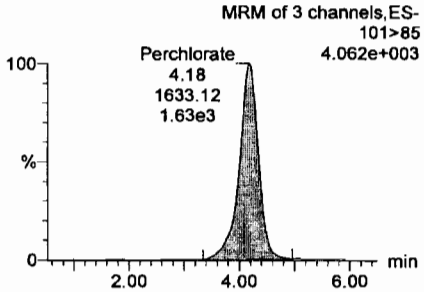
Method: C:\MassLynx\perchlorate.pro\Methdb\PerchlorateMRMCurve.mdb 25 Aug 2009 09:07:56
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141057
Date: 14-Apr-2010
Time: 14:08:53
ID: LCMS0067/10
Description: CCV 10.0
Vial: 1:8

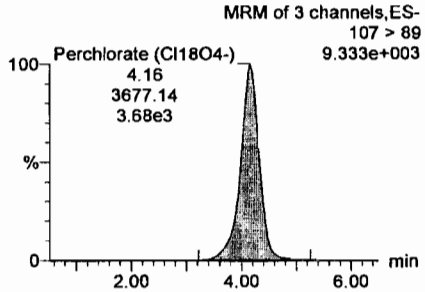
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc.	Area	IS Area	Response	Det. Flags	ppb	%Rec.	%Dev
1	1	Perchlorate	CCV 10.0	LCMS0067/10	4.18	10.000	4263.635	3677.139	16.036	bb	10.0048	100.0	0.0
2	3	Perchlorate (Cl18O4-)	CCV 10.0	LCMS0067/10	4.16	10.000	3677.139		3677.139	bb	10.6336	106.3	6.3

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	157.507	1.0	1.0	1.0	2.611	3.080	NO
2	107 > 89		931.229	1.0	1.0	1.0			

MRM 4/15/16

METHOD 6850 PERCHLORATE BY LCMSMS

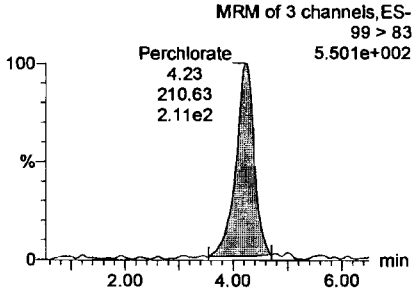
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_ICVDSS.qld

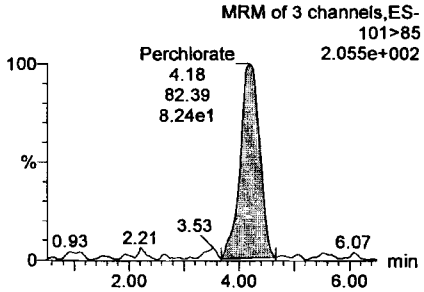
Last Altered: Wednesday, April 14, 2010 09:43:36 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:55:10 Central Daylight Time

Name: T04141013
Date: 14-Apr-2010
Time: 09:34:50
ID: DSS 1000/0.5
Description: DSS
Vial: 1:11

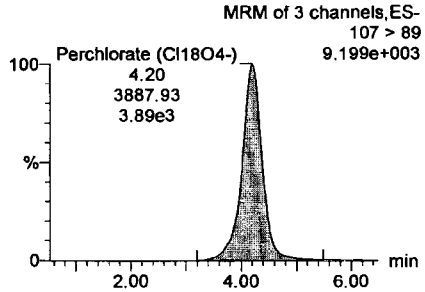
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std Conc	Area	IS Area	Response	Det Flags	ppb	%Rec	%Dev
1	1	Perchlorate	DSS	DSS 1000/0.5	4.23	0.500	210.626	3887.926	0.754	bb	0.5062	101.2	1.2
2	3	Perchlorate (Cl18O4-)	DSS	DSS 1000/0.5	4.20	0.500	3887.926		3887.926	bd	11.2432	112.4	12.4

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	67.427	10.0	10.0	1.0	2.556	3.080	NO
2	107 > 89		886.095	10.0	10.0	1.0			

mfm
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

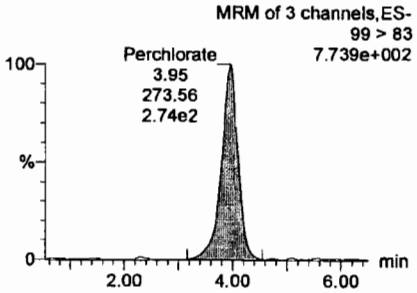
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCVDSS.qld

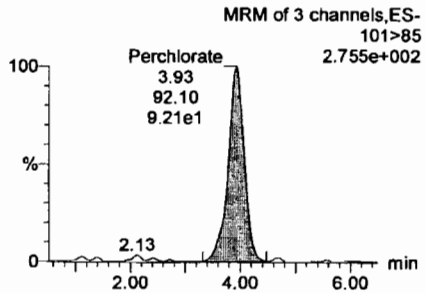
Last Altered: Wednesday, April 14, 2010 12:47:44 Central Daylight Time
Printed: Thursday, April 15, 2010 06:56:02 Central Daylight Time

Name: T04141036
Date: 14-Apr-2010
Time: 12:30:36
ID: DSS 1000/0.5
Description: DSS
Vial: 1:11

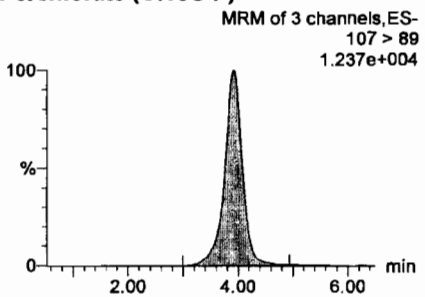
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	DSS	DSS 1000/0.5	3.95	0.500	273.555	4653.857	0.786	bb	5.2608	105.2	952.2
2	3	Perchlorate (Cl18O4-)	DSS	DSS 1000/0.5	3.91	0.500	4653.857		4653.857	bd	134.5814	134.6	1245.8

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	144.019	2.0	20.0	1.0	2.970	3.080	NO
2	107 > 89		1744.400	2.0	20.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

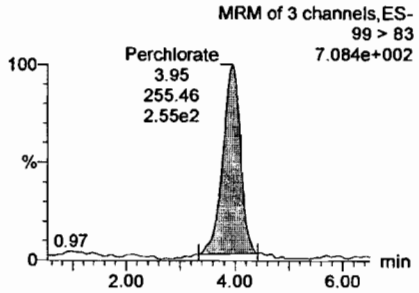
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_CCV2DSS2.qld

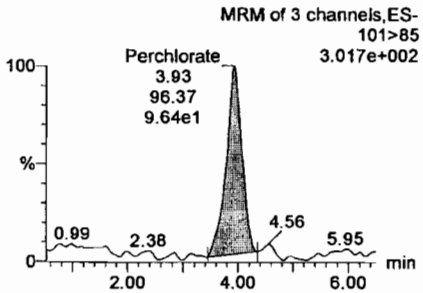
Last Altered: Wednesday, April 14, 2010 14:24:54 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:56:14 Central Daylight Time

Name: T04141058
Date: 14-Apr-2010
Time: 14:16:23
ID: DSS 1000/0.5
Description: DSS
Vial: 1:11

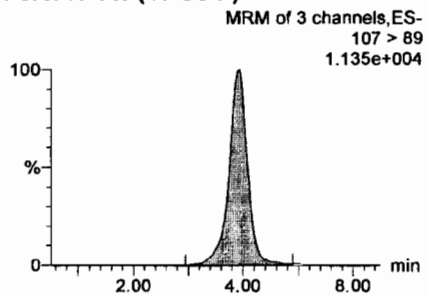
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ppb	%Rec	%Dev
1	1	Perchlorate	DSS	DSS 1000/0.5	3.95	0.500	255.461	4384.571	0.802	bb	5.3647	107.3	972.9
2	3	Perchlorate (Cl18O4-)	DSS	DSS 1000/0.5	3.93	0.500	4384.571		4384.571	bd	126.7941	126.8	1167.9

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	32.006	2.0	20.0	1.0	2.651	3.080	NO
2	107 > 89		1976.321	2.0	20.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

LC/MS/MS RAW SAMPLE DATA

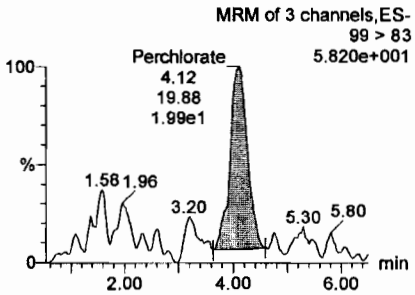
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

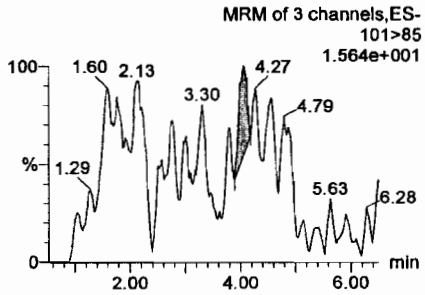
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141031
Date: 14-Apr-2010
Time: 11:52:51
ID: LXLR41A5
Description: F0D070439-002
Vial: 1:29

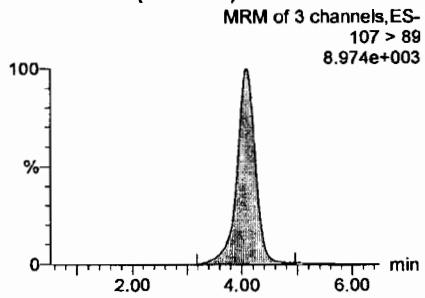
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D070439-002	LXLR41A5	4.12		19.884	3430.056	0.061	MM	0.7595		
2	2	Perchlorate (Cl18O4-)	F0D070439-002	LXLR41A5	4.10		3430.056		3430.056	bd	9.9191	99.2	-0.8

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	6.290	2.0	20.0	1.0	16.570	3.080	YES
2	107 > 89		1313.950	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

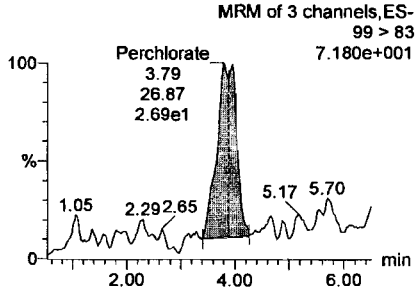
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

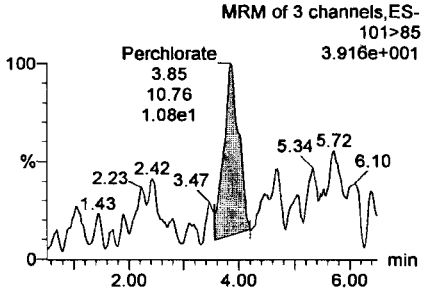
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141034
Date: 14-Apr-2010
Time: 12:15:30
ID: LXNKX1A6
Description: F0D080495-001
Vial: 1:32

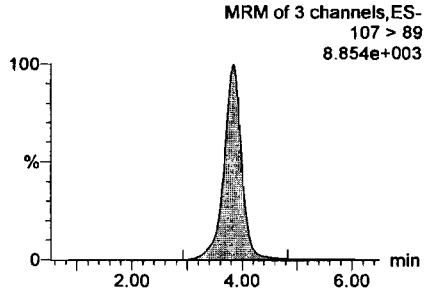
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-001	LXNKX1A6	3.79		26.873	3279.309	0.115	MM	1.0907		
2	2	Perchlorate (Cl18O4-)	F0D080495-001	LXNKX1A6	3.85		3279.309		3279.309	bb	9.4832	94.8	-5.2

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	11.810	2.0	20.0	1.0	2.497	3.080	NO
2	107 > 89		125.123	1.0	1.0	1.0			

MFM 4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

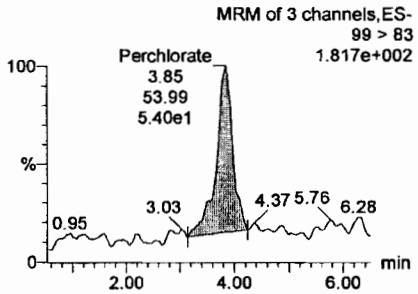
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

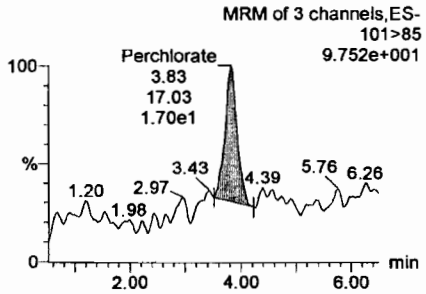
Method: C:\MassLynx\perchlorate.pro\Methdb\PerchlorateMRMSoil.mdb 17 Oct 2007 11:59:07
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141037
Date: 14-Apr-2010
Time: 12:38:14
ID: LXNK61AH
Description: F0D080495-002
Vial: 1:33

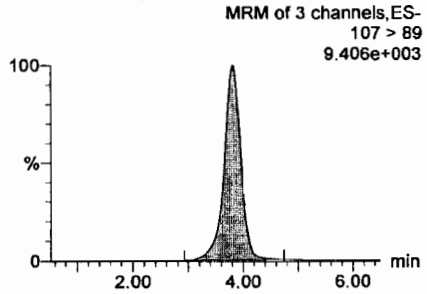
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-002	LXNK61AH	3.85		53.994	3302.579	0.215	bb	1.7140		
2	2	Perchlorate (Cl18O4-)	F0D080495-002	LXNK61AH	3.81		3302.579		3302.579	bb	9.5505	95.5	-4.5

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	18.971	2.0	20.0	1.0	3.171	3.080	NO
2	107 > 89		957.919	1.0	1.0	1.0			

MPM 4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

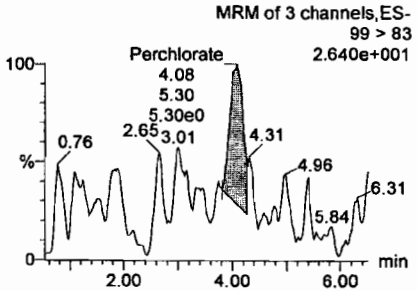
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

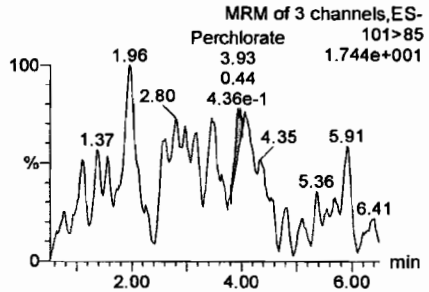
Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

Name: T04141038
Date: 14-Apr-2010
Time: 12:45:43
ID: LXNK81AH
Description: F0D080495-003
Vial: 1:34

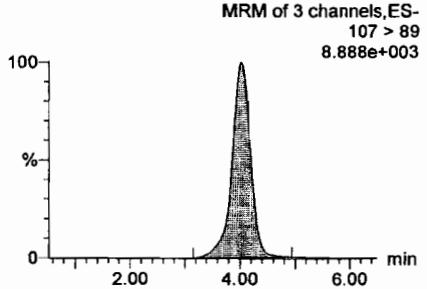
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-003	LXNK81AH	4.08		5.296	3404.267	0.017	bd	0.4821		
2	2	Perchlorate (Cl18O4-)	F0D080495-003	LXNK81AH	4.02		3404.267		3404.267	bb	9.8445	98.4	-1.6

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol. (mL)	Dilution Factor	Ion Ratio (act.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	3.024	2.0	20.0	1.0	12.147	3.080	YES
2	107 > 89		2075.490	1.0	1.0	1.0			

MEM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

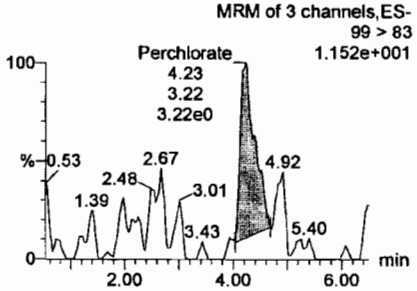
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

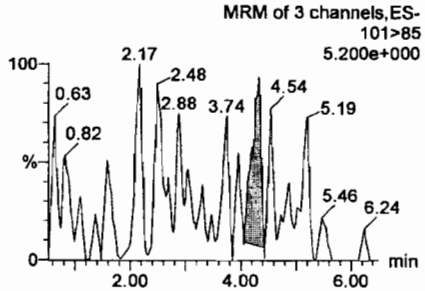
Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

Name: T04141039
Date: 14-Apr-2010
Time: 12:53:16
ID: LXNLC1AH
Description: F0D080495-004
Vial: 1:35

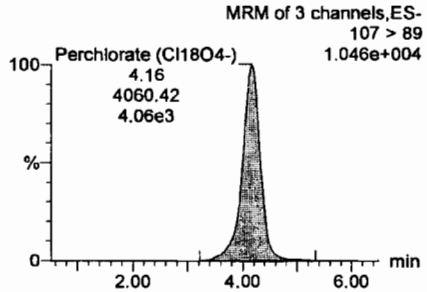
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-004	LXNLC1AH	4.23		3.219	4060.416	0.010	bb	0.4403		
2	2	Perchlorate (Cl18O4-)	F0D080495-004	LXNLC1AH	4.16		4060.416		4060.416	bb	11.7420	117.4	17.4

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	3.743	2.0	20.0	1.0	3.609	3.080	NO
2	107 > 89		1778.296	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

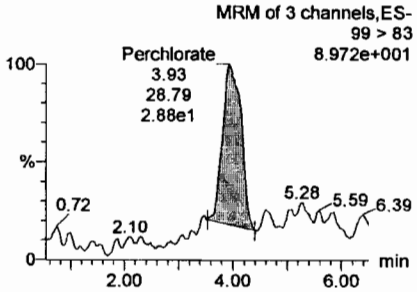
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

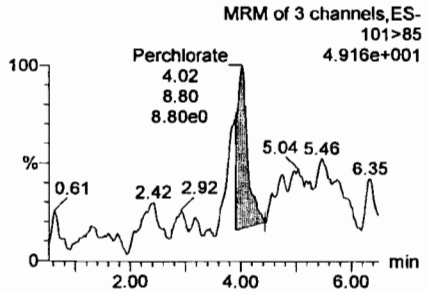
Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

Name: T04141040
Date: 14-Apr-2010
Time: 13:00:49
ID: LXNLE1AH
Description: F0D080495-005
Vial: 1:36

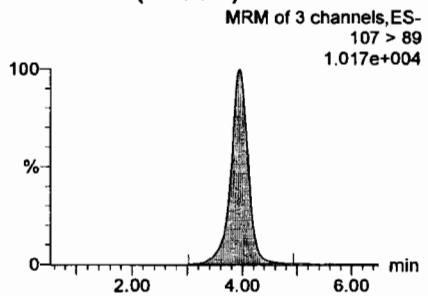
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-005	LXNLE1AH	3.93		28.785	3700.123	0.102	bb	1.0087		
2	2	Perchlorate (Cl18O4-)	F0D080495-005	LXNLE1AH	3.95		3700.123		3700.123	bb	10.7001	107.0	7.0

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	14.097	2.0	20.0	1.0	3.271	3.080	NO
2	107 > 89		1599.217	1.0	1.0	1.0			

MGM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

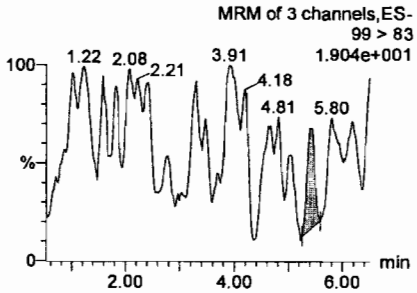
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

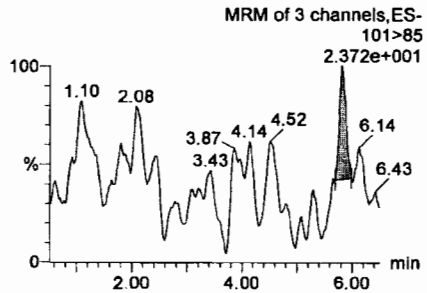
Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

Name: T04141041
Date: 14-Apr-2010
Time: 13:08:24
ID: LXNLH1AH
Description: F0D080495-006
Vial: 1:37

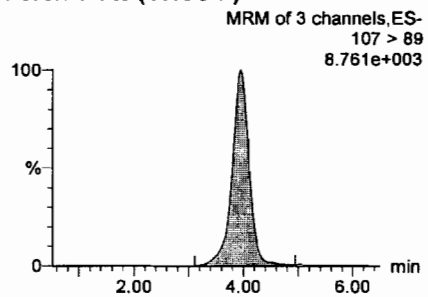
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-006	LXNLH1AH	5.40		1.632	3189.807	0.011	bb	0.4454		
2	2	Perchlorate (Cl18O4-)	F0D080495-006	LXNLH1AH	3.95		3189.807		3189.807	bd	9.2244	92.2	-7.8

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	2.040	2.0	20.0	1.0	0.878	3.080	YES
2	107 > 89		655.106	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

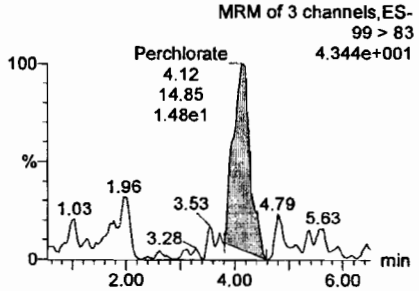
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP3.qld

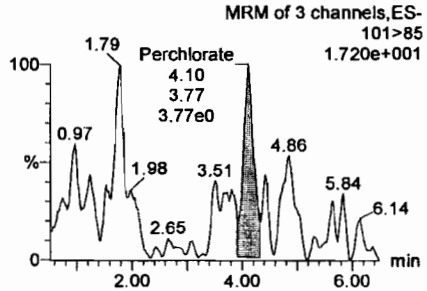
Last Altered: Wednesday, April 14, 2010 14:04:11 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:29 Central Daylight Time

Name: T04141042
Date: 14-Apr-2010
Time: 13:15:57
ID: LXNLK1AH
Description: F0D080495-007
Vial: 1:38

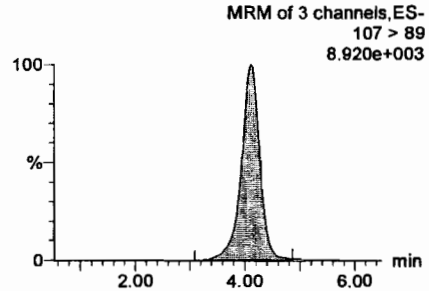
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080495-007	LXNLK1AH	4.12		14.845	3429.251	0.054	bb	0.7148		
2	2	Perchlorate (Cl18O4-)	F0D080495-007	LXNLK1AH	4.10		3429.251		3429.251	bd	9.9168	99.2	-0.8

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	8.533	2.0	20.0	1.0	3.940	3.080	YES
2	107 > 89		1588.306	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

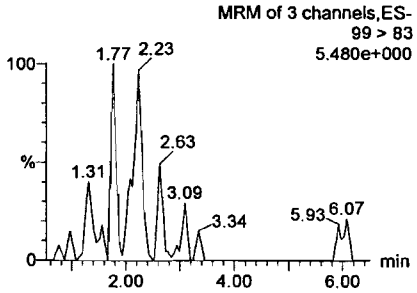
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP4.qld

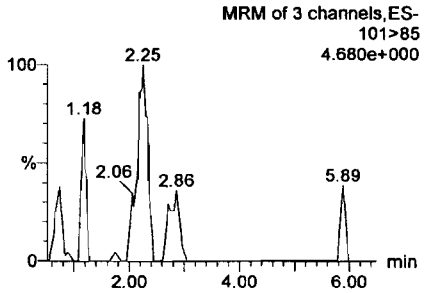
Last Altered: Wednesday, April 14, 2010 15:59:03 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:22 Central Daylight Time

Name: T04141053
Date: 14-Apr-2010
Time: 13:46:09
ID: LXNLM1A5
Description: F0D080495-008
Vial: 1:41

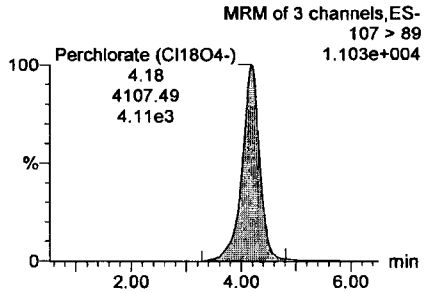
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/L	%Rec	%Dev
1	1	Perchlorate	F0D080495-008	LXNLM1A5				4107.494					
2	3	Perchlorate (Cl18O4-)	F0D080495-008	LXNLM1A5	4.18		4107.494		4107.494	bd	11.8782	118.8	18.8

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83			10.0	10.0	1.0			
2	107 > 89		1256.616	10.0	10.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

LC/MS/MS RAW QC DATA

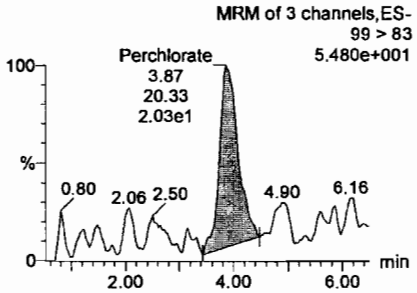
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

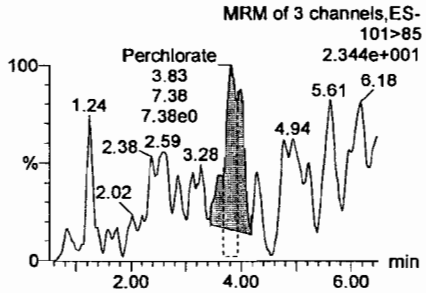
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141029
Date: 14-Apr-2010
Time: 11:37:44
ID: LXN9L1AA
Description: F0D080000-400B
Vial: 1:27

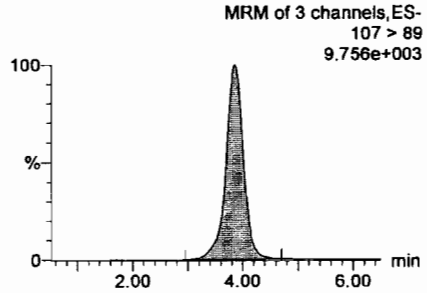
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	µg/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080000-400B	LXN9L1AA	3.87		20.328	3617.540	0.077	bb	0.8534		
2	2	Perchlorate (Cl18O4-)	F0D080000-400B	LXN9L1AA	3.67		3617.540		3617.540	bb	10.4613	104.6	4.6

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	14.448	2.0	20.0	1.0	2.755	3.080	NO
2	107 > 89		1560.055	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

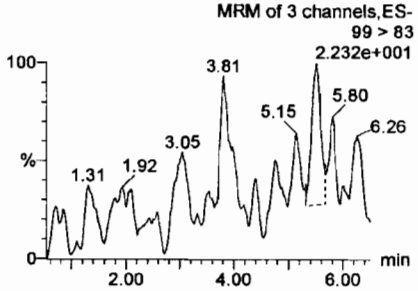
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP4.qld

Last Altered: Wednesday, April 14, 2010 15:59:03 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:22 Central Daylight Time

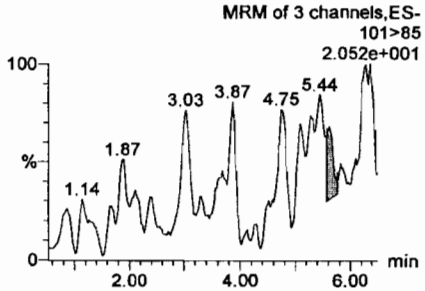
Method: C:\MassLynx\perchlorate.pro\Methdb\PerchlorateMRMWater.mdb 09 Sep 2009 12:42:32
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141051
Date: 14-Apr-2010
Time: 13:31:05
ID: LXTTK1AA
Description: F0D120000-141B
Vial: 1:39

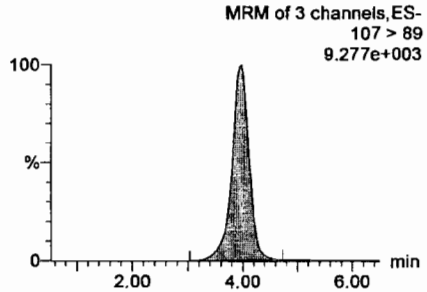
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/L	%Rec	%Dev
1	1	Perchlorate	F0D120000-141B	LXTTK1AA				3357.741		MM-			
2	3	Perchlorate (Cl18O4-)	F0D120000-141B	LXTTK1AA	3.97		3357.741		3357.741	bb	9.7100	97.1	-2.9

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85		10.0	10.0	1.0	0.000	3.080	YES
2	107 > 89		1440.072	10.0	10.0	1.0			

4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

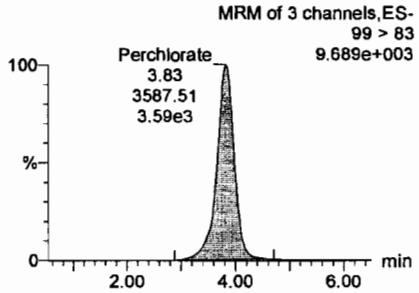
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

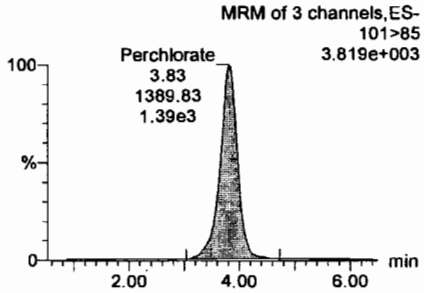
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141030
Date: 14-Apr-2010
Time: 11:45:18
ID: LXN9L1AC
Description: F0D080000-400C
Vial: 1:28

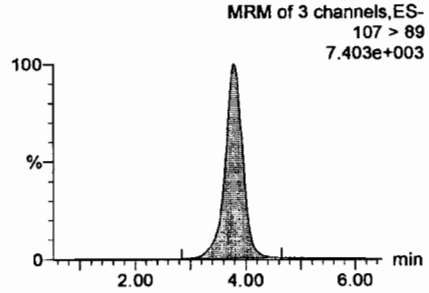
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D080000-400C	LXN9L1AC	3.83	10.000	3587.510	2720.775	18.294	bb	114.0792	114.1	1040.8
2	2	Perchlorate (Cl18O4-)	F0D080000-400C	LXN9L1AC	3.79	10.000	2720.775		2720.775	bb	7.8680	78.7	-21.3

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1470.094	2.0	20.0	1.0	2.581	3.080	NO
2	107 > 89		844.395	1.0	1.0	1.0			

4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

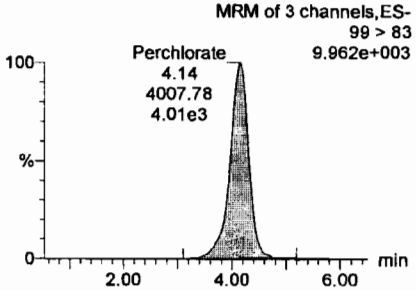
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP4.qld

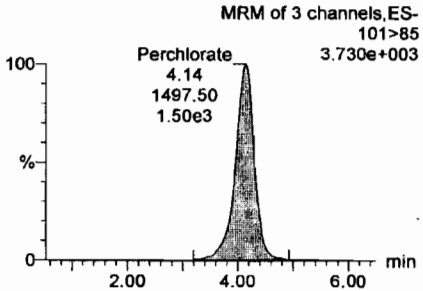
Last Altered: Wednesday, April 14, 2010 15:59:03 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:22 Central Daylight Time

Name: T04141052
Date: 14-Apr-2010
Time: 13:38:37
ID: LXTTK1AC
Description: F0D120000-141C
Vial: 1:40

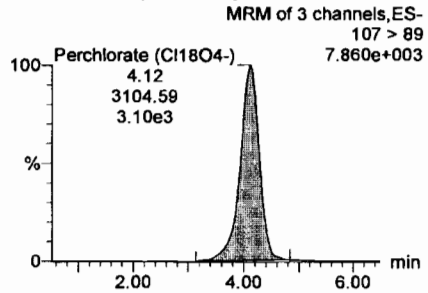
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/L	%Rec	%Dev
1	1	Perchlorate	F0D120000-141C	LXTTK1AC	4.14	10.000	4007.785	3104.592	17.733	bb	11.0592	110.6	10.6
2	3	Perchlorate (Cl18O4-)	F0D120000-141C	LXTTK1AC	4.12	10.000	3104.592		3104.592	bb	8.9779	89.8	-10.2

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	272.525	10.0	10.0	1.0	2.676	3.080	NO
2	107 > 89		1082.815	10.0	10.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

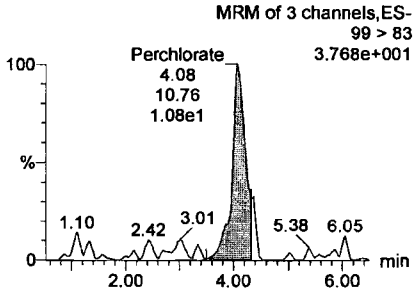
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

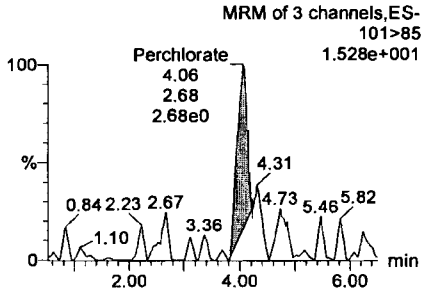
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141032
Date: 14-Apr-2010
Time: 12:00:23
ID: LXLR41E0
Description: F0D070439-002X
Vial: 1:30

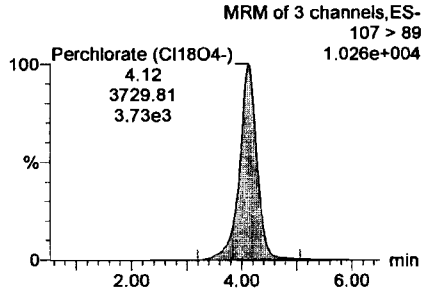
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D070439-002X	LXLR41E0	4.08		10.763	3729.812	0.036	bd	0.6015		
2	2	Perchlorate (Cl18O4-)	F0D070439-002X	LXLR41E0	4.12		3729.812		3729.812	bb	10.7860	107.9	7.9

	Trace:	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	3.584	2.0	20.0	1.0	4.012	3.080	YES
2	107 > 89		1960.238	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

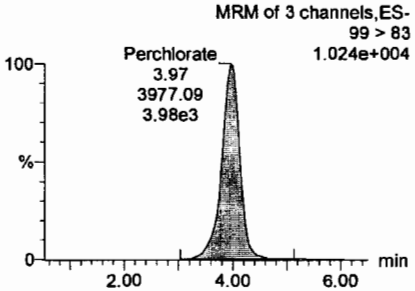
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP2.qld

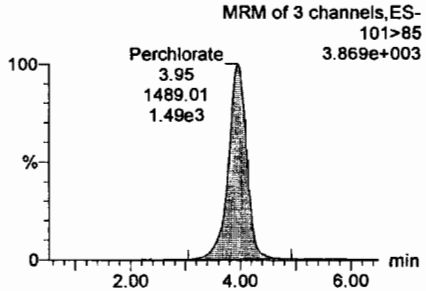
Last Altered: Wednesday, April 14, 2010 12:47:06 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:58:03 Central Daylight Time

Name: T04141033
Date: 14-Apr-2010
Time: 12:07:58
ID: LXLR41EW
Description: F0D070439-002S
Vial: 1:31

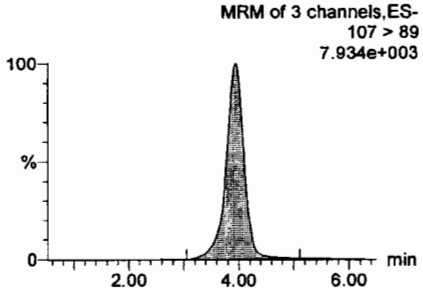
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec	%Dev
1	1	Perchlorate	F0D070439-002S	LXLR41EW	3.97	10.000	3977.094	2980.083	18.342	bb	114.3795	114.4	1043.8
2	2	Perchlorate (Cl18O4-)	F0D070439-002S	LXLR41EW	3.95	10.000	2980.083		2980.083	bb	8.6179	86.2	-13.8

	Trace	Sec.Trace	S/N	Initial Wt/Vol.(g/mL)	Final Vol.(mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1366.560	2.0	20.0	1.0	2.671	3.080	NO
2	107 > 89		881.816	1.0	1.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

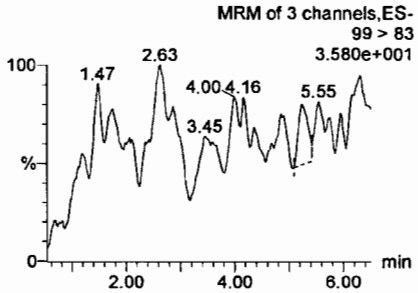
Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP4.qld

Last Altered: Thursday, April 15, 2010 16:27:23 Central Daylight Time
Printed: Thursday, April 15, 2010 16:27:53 Central Daylight Time

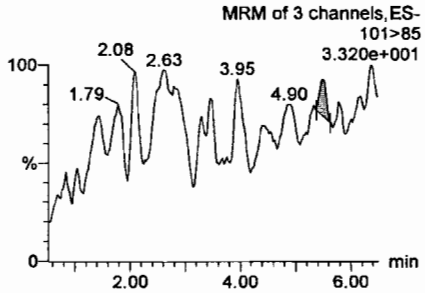
Method: C:\MassLynx\perchlorate.PRO\MethDB\PerchlorateMRMWater.mdb 09 Sep 2009 12:42:32
Calibration: C:\MassLynx\perchlorate.PRO\CurveDB\TPER_100414.cdb 14 Apr 2010 09:37:27

Name: T04141054
Date: 14-Apr-2010
Time: 13:53:43
ID: LXNLM1A8
Description: F0D080495-008X
Vial: 1:42

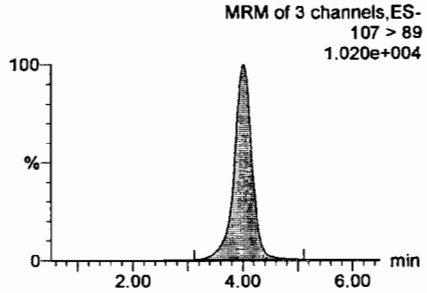
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std. Conc	Area	IS Area	Response	Det. Flags	ug/L	%Rec	%Dev
1	1	Perchlorate	F0D080495-008X	LXNLM1A8				3811.571		MM-			
2	3	Perchlorate (Cl18O4-)	F0D080495-008X	LXNLM1A8	4.02		3811.571		3811.571	bb	11.0224	110.2	10.2

	Trace	Sec Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85		10.0	10.0	1.0	0.000	3.080	YES
2	107 > 89		886.179	10.0	10.0	1.0			

1. Peak Not Found
2. Incomplete Integration
3. Assign Peak
4. Wrong Peak
5. Baseline Smoothing
6. Split Peak
7. Other_____

4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

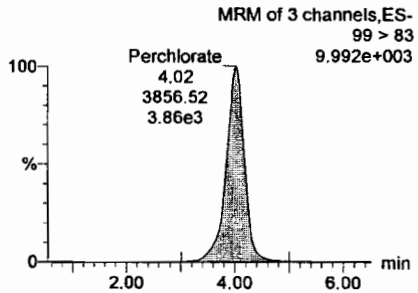
Quantify Sample Report **MassLynx 4.1**
TESTAMERICA ST. LOUIS

Dataset: C:\MassLynx\perchlorate.pro\DataSetSaved\T100414_LANLSW\TPER100414_SMP4.qld

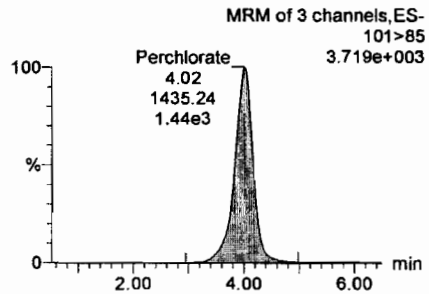
Last Altered: Wednesday, April 14, 2010 15:59:03 Central Daylight Time
Printed: Wednesday, April 14, 2010 15:59:22 Central Daylight Time

Name: T04141055
Date: 14-Apr-2010
Time: 14:01:16
ID: LXNLM1A7
Description: F0D080495-008S
Vial: 1:43

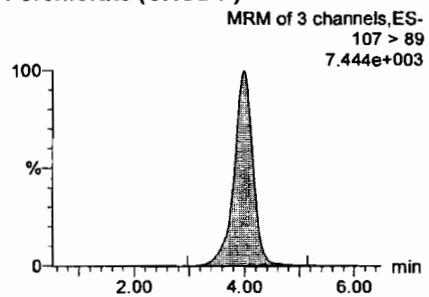
Perchlorate



Perchlorate



Perchlorate (Cl18O4-)



	#	Name	Sample Lot#	Sample/STD ID	RT (min)	Std Conc	Area	IS Area	Response	Det. Flags	ug/L	%Rec	%Dev
1	1	Perchlorate	F0D080495-008S	LXNLM1A7	4.02	10.000	3856.521	2926.882	18.080	bd	11.2749	112.7	12.7
2	3	Perchlorate (Cl18O4-)	F0D080495-008S	LXNLM1A7	3.99	10.000	2926.882		2926.882	bb	8.4640	84.6	-15.4

	Trace	Sec.Trace	S/N	Initial Wt/Vol (g/mL)	Final Vol (mL)	Dilution Factor	Ion Ratio (acct.)	Ion Ratio (pred.)	Ratio Flag
1	99 > 83	101>85	1820.506	10.0	10.0	1.0	2.687	3.080	NO
2	107 > 89		887.187	10.0	10.0	1.0			

MFM
4/15/10

METHOD 6850 PERCHLORATE BY LCMSMS

LC/MS/MS MISCELLANEOUS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Organic Prep Report for Batch # 0098400

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

SOP Number: ST-LC-0004

Prep Method: SW-846 6850

Matrix: SOLID

Prep Description: LEACHATE, DI (Routine)

Extraction Date: 4/8/2010

			Initials: MFM				Initials: MFM		Initials:		Initials:	
							Concentration 1		*Cleanup 1*		*Cleanup 2*	
Lot Number	WorkOrder No	AnalDueDate	Wt/Vol	pH 1	pH 2	Extr Unit	Volume	Date	Method	Date	Method	Date
F 0D070439 - 002	LXLR41A5	04/16/2010	2 g				20 mL					
F 0D070439 - 002S	LXLR41EW	04/16/2010	2 g				20 mL					
F 0D070439 - 002X	LXLR41E0	04/16/2010	2 g				20 mL					
F 0D080000 - 400B	LXN9L1AA		2 g				20 mL					
F 0D080000 - 400C	LXN9L1AC		2 g				20 mL					
F 0D080495 - 001	LXNKX1A6	04/16/2010	2 g				20 mL					
F 0D080495 - 002	LXNK61AH	04/16/2010	2 g				20 mL					
F 0D080495 - 003	LXNK81AH	04/16/2010	2 g				20 mL					
F 0D080495 - 004	LXNLC1AH	04/16/2010	2 g				20 mL					
F 0D080495 - 005	LXNLE1AH	04/16/2010	2 g				20 mL					
F 0D080495 - 006	LXNLH1AH	04/16/2010	2 g				20 mL					
F 0D080495 - 007	LXNLK1AH	04/16/2010	2 g				20 mL					

Spike Information

Name	Standard ID	Exp Date	Vol Added
Perchlorate Spike	OP0014-10	7/11/2010	200 uL
Perchlorate IS/Surr	LCMS0033-1	6/11/2010	200 uL

Spiking verified by: [signature]

Miscellaneous Information

Start: Stop:

Extr 1:

Extr 2:

Conc Method:

Conc Temp C:

Comments: DSS → 200 uL OP0015-10 Perchlorate spike 0.5ppm exp 7/11/10

Custody Information

Relinquished By: [signature] Review/Received By: [signature] Date of Transfer: 4/9/10

LOT F0D080495

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Organic Prep Report for Batch # 0102141

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

SOP Number: ST-LC-0004

Prep Method: SW-846 6850

Matrix: WATER

Prep Description: NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

Extraction Date: 4/12/2010

			Initials: MFM				Initials: MFM		Initials:		Initials:	
							Concentration 1		Cleanup 1		Cleanup 2	
Lot Number	WorkOrder No	AnalDueDate	Wt/Vol	pH 1	pH 2	Extr Unit	Volume	Date	Method	Date	Method	Date
F0D080495 - 008	LXNLM1A5	04/16/2010	10 mL				10 mL	4/12/2010				
F0D080495 - 008S	LXNLM1A7	04/16/2010	10 mL				10 mL	4/12/2010				
F0D080495 - 008X	LXNLM1A8	04/16/2010	10 mL				10 mL	4/12/2010				
F0D120000 - 141B	LXTTK1AA		10 mL				10 mL	4/12/2010				
F0D120000 - 141C	LXTTK1AC		10 mL				10 mL	4/12/2010				

Spike Information

Name	Standard ID	Exp Date	Vol Added
Perchlorate Spike	OP0014-10	7/11/2010	100 uL
Perchlorate IS/Surr	LCMS0033-1	6/11/2010	100 uL

Spiking verified by: JBH

Miscellaneous Information

Start: Stop:

Extr 1:

Extr 2:

Conc Method:

Conc Temp C:

Comments: DSS → 100uL OP0015-10 Perchlorate Spike 0.05ppm exp. 7/11/2010

Custody Information

Relinquished By: MFM Review/Received By: MFM Date of Transfer: 4/12/10

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

PrepSheet Generator 1.26, updated 11/14/2008

123 1038

TestAmerica St. Louis

Logbook No.: 3327 | Instrument ID No.: LCMSMS T

TestAmerica St. Louis

LC/MS/MS Runlog

Data File	Lab I.D.	Dil.	STD#	Matrix S / W	Date	Oper.	Method
T04101238	LW5AK1AD			S	4/12/10	MPM	6850
39	CCV 10.0 10.0		LCMS0067-10				
40	DSS 1000/0.5						
T04101241	LXATP1AA B			S	4/12/10	MPM	6850
42	P1AC C						
43	LW48H1A5						
44	8P1AG						
45	8R1AG						
46	8T1AG						
47	8W1AG						
48	801AG						
49	901AG						
50	CCV 10 10.0		LCMS0067-10				
51	LW5AX1A5			S			
52	A11AG						
53	CM1A5						
54	CM1E2 X						
55	CM1CR S						
56	CP1AG						
57	CCV 10 10.0		LCMS0067-10				
58	DSS 1000/0.5						
59	LXMXX1AA B			W			
60	X1AC C						
61	LXLH41AG						
62	41CP X						
63	41CN S						
64	CCV 10 10.0		LCMS0067-10				
65	DSS 1000/0.5						
T04141001	Inst Blk				4/14/10	MPM	6850
002	Inst Blk						
003	I-CAL-1 0.1		LCMS00835/10				
004	-2 0.5						
005	-3 1.0						
006	-4 2.0						
007	-5 5.0						

Form: SL-ORG-0028, Rev. 09/21/07

QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; D=Matrix Spike Duplicate. SOP Referances: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

Logbook No.: 3327 | Instrument ID No.: LCMSMS T

TestAmerica St. Louis

LC/MS/MS Runlog

Batch #	Comments		#
0089384	FOC250552-006	OK	1
	CCV good (+/-15%)	OK	2
		OK	3
0089391	FOC300000-391B	OK	4
	-391C	OK	5
	FOC250548-001	OK	6
	-002	OK	7
	-003	OK	8
	-004	OK	9
	-005	OK	10
	-006	OK	11
	-009	OK	12
	CCV good (+/-15%)	OK	13
0089391	FOC250555-001	OK	14
	-002	OK	15
	FOC250559-001	OK	16
	-001X	OK	17
	-001S	OK	18
	-002	OK	19
	CCV good (+/-15%)	OK	20
MPM 4/13/10		OK	21
~~0089387~~	FOD080000-058B Batch# 0098058	OK	22
	-058C	OK	23
	FOC260531-002	OK	24
	-002X	OK	25
	-002S	OK	26
	CCV good (+/-15%	OK	27
		OK	28
		OK	29
		OK	30
		OK	31
	Curve good 0.1 → 50.0	OK	32
		OK	33
		OK	34
		OK	35

Reviewed by: Denise Smyth 4/13/10 [illegible] 4/15/10 Alicia Hoker 4/12/10

Form: SL-ORG-0028, Rev. 09/21/07

QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; D=Matrix Spike Duplicate. SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

Logbook No.: 3327 | Instrument ID No.: LCMSMS T

TestAmerica St. Louis

LC/MS/MS Runlog

Data File		Lab I.D.	Dil.	STD#	Matrix S / W	Date	Oper.	Method	Batch #	Comments	#
7	141008	I-CAL-6 10.0				4-15-10	MFM	6850		ok	1
	009	-7 20.0								Curve good 0.1 → 50.0 ok	2
	010	-8 50.0								ok	3
	011	Inst. BLK								ok	4
	012	ICV-10 10.0		LCMS0067-10						ICV good (+/- 15%) ok	5
	013	DSS 1000/0.5								ok	6
	014	LW47V1AA B			S				0084289	FOC250000-289B ok	7
	015	V1AC C								-289C ok	8
	016	LW10G1A5								FOC230560-001 ok	9
	017	OL1AG								-002 ok	10
	018	OL1A7 X								-002X ok	11
	019	OL1AG S								-002S ok	12
	020	ON1AG								-003 ok	13
	021	OT1AG								-004 ok	14
	022	OH1AG								-006 ok	15
	023	6A1A5								FOC230593-001 ok	16
	024	CCV-10 10.0		LCMS0067-10						CCV good (+/-15%) ok	17
	025	LW16C1AG			S				0084289	FOC230593-002 ok	18
	026	D1AG								-003 ok	19
	027	E1AG								-004 ok	20
	028	H1AG								-007 ok	21
	029	LXN9L1AA B							0098400	FOD080000-400B ok	22
	030	L1AC C							0098400	-400C ok	23
	031	LXLR41A5								FOD0370439-002 ok	24
	032	41E0 X								-002X ok	25
	033	41EW S								-002S ok	26
	034	LXNKX1AG								FOD080495-001 ok	27
	035	CCV-10 10.0		LCMS0067-10						CCV good (+/- 15%) ok	28
	036	DSS 1000/0.5								ok	29
	037	LXNKG1AH			S				0098400	FOD080495-002 ok	30
	038	K81AH								-003 ok	31
	039	LC1AH								-004 ok	32
	040	LE1AH								-005 ok	33
	041	LH1AH								-006 ok	34
	042	LK1AH								-007 ok	35

Reviewed by: [signature] 4/15/10

Form: SL-ORG-0028, Rev. 09/21/07

QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; D=Matrix Spike Duplicate. SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

Logbook No.: 3327

Instrument ID No.: LCMSMS T

TestAmerica St. Louis

LC/MS/MS Runlog

#	Data File	Lab I.D.	Dil.	STD#	Matrix S / W	Date	Oper.	Method
1	T04141050	CCV-10 10.0		LCMS0067-10		4/14/10	MFM	6856
2	051	LXTTKIAA B			W			
3	052	L KIAC C						
4	053	LXNLMIA5						
5	054	MIA8 X						
6	055	MIA7 S						
7	057	CCV-10 10.0		LCMS0067-10				
8	058	DSS 1000/0.5						
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Logbook No.: 3327

Instrument ID No.: LCMSMS T

TestAmerica St. Louis

LC/MS/MS Runlog

Batch #	Comments	#
	CCV good (+/- 15%) sequence T04141043 → T04141090	1
0102141	FOD126000-141B cut before running, does not ok	2
	L -141C exist. ok	3
	FOD080495-008 ok	4
	L -008X ok	5
	L -008S sequence T04141056 cut before ok	6
	CCV good (+/- 15%) running, does not exist ok	7
	ok	8
		9
		10
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METALS SAMPLE AND QC SUMMARY RESULTS

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	3.0	6.0	14400	N	1	ICPMS	4/13/2010	21:06
Arsenic	75	0.37	1.2	3.8		1	ICPMS	4/13/2010	21:06
Barium	137	0.16	2.4	79.4		1	ICPMS	4/13/2010	21:06
Beryllium	9	0.018	0.12	1.6		1	ICPMS	4/13/2010	21:06
Cadmium	111	0.024	0.060	0.041	J	1	ICPMS	4/13/2010	21:06
Calcium	44	24.1	60.3	5490		1	ICPMS	4/13/2010	21:06
Chromium	52	0.77	1.2	13.7		1	ICPMS	4/13/2010	21:06
Cobalt	59	0.063	0.24	3.5		1	ICPMS	4/13/2010	21:06
Copper	63	0.24	1.2	18.0		1	ICPMS	4/13/2010	21:06
Iron	57	4.8	6.0	13500		1	ICPMS	4/13/2010	21:06
Lead	208	0.19	0.36	11.9		1	ICPMS	4/13/2010	21:06
Magnesium	24	3.8	60.3	3230		1	ICPMS	4/13/2010	21:06
Manganese	55	0.18	0.60	176	N	1	ICPMS	4/13/2010	21:06
Nickel	60	0.18	0.60	13.9	E	1	ICPMS	4/13/2010	21:06
Potassium	39	3.6	12.1	2300		1	ICPMS	4/13/2010	21:06
Selenium	78	0.096	0.60	1.3		1	ICPMS	4/13/2010	21:06
Silver	107	0.027	0.24	0.14	J	1	ICPMS	4/13/2010	21:06
Sodium	23	7.8	24.1	1470		1	ICPMS	4/13/2010	21:06
Thallium	205	0.18	0.24	0.18	U*	1	ICPMS	4/13/2010	21:06
Uranium	238	0.024	0.12	0.93	E	1	ICPMS	4/13/2010	21:06
Vanadium	51	0.89	1.2	21.2		1	ICPMS	4/13/2010	21:06
Zinc	66	2.3	2.4	35.8	E	1	ICPMS	4/13/2010	21:06

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	3.0	5.9	15200	N	1	ICPMS	4/13/2010	21:27
Arsenic	75	0.37	1.2	3.5		1	ICPMS	4/13/2010	21:27
Barium	137	0.16	2.4	190		1	ICPMS	4/13/2010	21:27
Beryllium	9	0.018	0.12	1.2		1	ICPMS	4/13/2010	21:27
Cadmium	111	0.024	0.059	0.046	J	1	ICPMS	4/13/2010	21:27
Calcium	44	23.7	59.2	2300		1	ICPMS	4/13/2010	21:27
Chromium	52	0.75	1.2	10.0		1	ICPMS	4/13/2010	21:27
Cobalt	59	0.062	0.24	5.7		1	ICPMS	4/13/2010	21:27
Copper	63	0.24	1.2	7.3		1	ICPMS	4/13/2010	21:27
Iron	57	4.7	5.9	12600		1	ICPMS	4/13/2010	21:27
Lead	208	0.18	0.36	16.2		1	ICPMS	4/13/2010	21:27
Magnesium	24	3.7	59.2	2210		1	ICPMS	4/13/2010	21:27
Manganese	55	0.18	0.59	278	N	1	ICPMS	4/13/2010	21:27
Nickel	60	0.18	0.59	8.3	E	1	ICPMS	4/13/2010	21:27
Potassium	39	3.6	11.8	1990		1	ICPMS	4/13/2010	21:27
Selenium	78	0.095	0.59	1.1		1	ICPMS	4/13/2010	21:27
Silver	107	0.026	0.24	0.068	J	1	ICPMS	4/13/2010	21:27
Sodium	23	7.7	23.7	365		1	ICPMS	4/13/2010	21:27
Thallium	205	0.18	0.24	0.24	*	1	ICPMS	4/13/2010	21:27
Uranium	238	0.024	0.12	0.67	E	1	ICPMS	4/13/2010	21:27
Vanadium	51	0.87	1.2	23.1		1	ICPMS	4/13/2010	21:27
Zinc	66	2.3	2.4	23.0	E	1	ICPMS	4/13/2010	21:27

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.9	5.8	8450	N	1	ICPMS	4/13/2010	21:42
Arsenic	75	0.36	1.2	2.9		1	ICPMS	4/13/2010	21:42
Barium	137	0.16	2.3	125		1	ICPMS	4/13/2010	21:42
Beryllium	9	0.018	0.12	0.71		1	ICPMS	4/13/2010	21:42
Cadmium	111	0.023	0.058	0.094		1	ICPMS	4/13/2010	21:42
Calcium	44	23.4	58.4	1870		1	ICPMS	4/13/2010	21:42
Chromium	52	0.74	1.2	8.0		1	ICPMS	4/13/2010	21:42
Cobalt	59	0.061	0.23	5.4		1	ICPMS	4/13/2010	21:42
Copper	63	0.23	1.2	6.6		1	ICPMS	4/13/2010	21:42
Iron	57	4.7	5.8	9880		1	ICPMS	4/13/2010	21:42
Lead	208	0.18	0.35	23.0		1	ICPMS	4/13/2010	21:42
Magnesium	24	3.7	58.4	1700		1	ICPMS	4/13/2010	21:42
Manganese	55	0.18	0.58	286	N	1	ICPMS	4/13/2010	21:42
Nickel	60	0.18	0.58	6.5	E	1	ICPMS	4/13/2010	21:42
Potassium	39	3.5	11.7	1860		1	ICPMS	4/13/2010	21:42
Selenium	78	0.093	0.58	0.86		1	ICPMS	4/13/2010	21:42
Silver	107	0.026	0.23	0.048	J	1	ICPMS	4/13/2010	21:42
Sodium	23	7.6	23.4	58.8		1	ICPMS	4/13/2010	21:42
Thallium	205	0.18	0.23	0.24	*	1	ICPMS	4/13/2010	21:42
Uranium	238	0.023	0.12	5.8	E	1	ICPMS	4/13/2010	21:42
Vanadium	51	0.86	1.2	20.3		1	ICPMS	4/13/2010	21:42
Zinc	66	2.2	2.3	21.2	E	1	ICPMS	4/13/2010	21:42

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.9	5.9	7070	N	1	ICPMS	4/13/2010	21:49
Arsenic	75	0.36	1.2	2.4		1	ICPMS	4/13/2010	21:49
Barium	137	0.16	2.3	112		1	ICPMS	4/13/2010	21:49
Beryllium	9	0.018	0.12	0.60		1	ICPMS	4/13/2010	21:49
Cadmium	111	0.023	0.059	0.073		1	ICPMS	4/13/2010	21:49
Calcium	44	23.5	58.7	1410		1	ICPMS	4/13/2010	21:49
Chromium	52	0.75	1.2	7.2		1	ICPMS	4/13/2010	21:49
Cobalt	59	0.061	0.23	5.8		1	ICPMS	4/13/2010	21:49
Copper	63	0.23	1.2	5.0		1	ICPMS	4/13/2010	21:49
Iron	57	4.7	5.9	8790		1	ICPMS	4/13/2010	21:49
Lead	208	0.18	0.35	12.7		1	ICPMS	4/13/2010	21:49
Magnesium	24	3.7	58.7	1340		1	ICPMS	4/13/2010	21:49
Manganese	55	0.18	0.59	357	N	1	ICPMS	4/13/2010	21:49
Nickel	60	0.18	0.59	6.1	E	1	ICPMS	4/13/2010	21:49
Potassium	39	3.5	11.7	1580		1	ICPMS	4/13/2010	21:49
Selenium	78	0.094	0.59	0.76		1	ICPMS	4/13/2010	21:49
Silver	107	0.026	0.23	0.035	J	1	ICPMS	4/13/2010	21:49
Sodium	23	7.6	23.5	52.5		1	ICPMS	4/13/2010	21:49
Thallium	205	0.18	0.23	0.18	U*	1	ICPMS	4/13/2010	21:49
Uranium	238	0.023	0.12	7.1	E	1	ICPMS	4/13/2010	21:49
Vanadium	51	0.86	1.2	18.5		1	ICPMS	4/13/2010	21:49
Zinc	66	2.3	2.3	17.5	E	1	ICPMS	4/13/2010	21:49

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.7	5.3	6220	N	1	ICPMS	4/13/2010	21:56
Arsenic	75	0.33	1.1	3.0		1	ICPMS	4/13/2010	21:56
Barium	137	0.14	2.1	140		1	ICPMS	4/13/2010	21:56
Beryllium	9	0.016	0.11	0.60		1	ICPMS	4/13/2010	21:56
Cadmium	111	0.021	0.053	0.029	J	1	ICPMS	4/13/2010	21:56
Calcium	44	21.3	53.3	2320		1	ICPMS	4/13/2010	21:56
Chromium	52	0.68	1.1	8.2		1	ICPMS	4/13/2010	21:56
Cobalt	59	0.055	0.21	6.4		1	ICPMS	4/13/2010	21:56
Copper	63	0.21	1.1	11.8		1	ICPMS	4/13/2010	21:56
Iron	57	4.3	5.3	8670		1	ICPMS	4/13/2010	21:56
Lead	208	0.16	0.32	10.4		1	ICPMS	4/13/2010	21:56
Magnesium	24	3.4	53.3	1560		1	ICPMS	4/13/2010	21:56
Manganese	55	0.16	0.53	301	N	1	ICPMS	4/13/2010	21:56
Nickel	60	0.16	0.53	8.5	E	1	ICPMS	4/13/2010	21:56
Potassium	39	3.2	10.7	1330		1	ICPMS	4/13/2010	21:56
Selenium	78	0.085	0.53	0.69		1	ICPMS	4/13/2010	21:56
Silver	107	0.023	0.21	0.036	J	1	ICPMS	4/13/2010	21:56
Sodium	23	6.9	21.3	336		1	ICPMS	4/13/2010	21:56
Thallium	205	0.16	0.21	0.21	J*	1	ICPMS	4/13/2010	21:56
Uranium	238	0.021	0.11	0.42	E	1	ICPMS	4/13/2010	21:56
Vanadium	51	0.78	1.1	17.8		1	ICPMS	4/13/2010	21:56
Zinc	66	2.0	2.1	24.4	E	1	ICPMS	4/13/2010	21:56

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.9	5.8	7230	N	1	ICPMS	4/13/2010	22:03
Arsenic	75	0.36	1.2	2.7		1	ICPMS	4/13/2010	22:03
Barium	137	0.16	2.3	113		1	ICPMS	4/13/2010	22:03
Beryllium	9	0.018	0.12	0.63		1	ICPMS	4/13/2010	22:03
Cadmium	111	0.023	0.058	0.062		1	ICPMS	4/13/2010	22:03
Calcium	44	23.3	58.1	1380		1	ICPMS	4/13/2010	22:03
Chromium	52	0.74	1.2	7.7		1	ICPMS	4/13/2010	22:03
Cobalt	59	0.060	0.23	6.0		1	ICPMS	4/13/2010	22:03
Copper	63	0.23	1.2	5.0		1	ICPMS	4/13/2010	22:03
Iron	57	4.7	5.8	9210		1	ICPMS	4/13/2010	22:03
Lead	208	0.18	0.35	13.1		1	ICPMS	4/13/2010	22:03
Magnesium	24	3.7	58.1	1370		1	ICPMS	4/13/2010	22:03
Manganese	55	0.17	0.58	341	N	1	ICPMS	4/13/2010	22:03
Nickel	60	0.17	0.58	6.2	E	1	ICPMS	4/13/2010	22:03
Potassium	39	3.5	11.6	1450		1	ICPMS	4/13/2010	22:03
Selenium	78	0.093	0.58	0.88		1	ICPMS	4/13/2010	22:03
Silver	107	0.026	0.23	0.037	J	1	ICPMS	4/13/2010	22:03
Sodium	23	7.6	23.3	59.9		1	ICPMS	4/13/2010	22:03
Thallium	205	0.17	0.23	0.17	U*	1	ICPMS	4/13/2010	22:03
Uranium	238	0.023	0.12	1.5	E	1	ICPMS	4/13/2010	22:03
Vanadium	51	0.85	1.2	20.0		1	ICPMS	4/13/2010	22:03
Zinc	66	2.2	2.3	18.5	E	1	ICPMS	4/13/2010	22:03

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.6	5.2	3210	N	1	ICPMS	4/13/2010	22:10
Arsenic	75	0.32	1.0	1.2		1	ICPMS	4/13/2010	22:10
Barium	137	0.14	2.1	23.4		1	ICPMS	4/13/2010	22:10
Beryllium	9	0.016	0.10	0.39		1	ICPMS	4/13/2010	22:10
Cadmium	111	0.021	0.052	0.021	U	1	ICPMS	4/13/2010	22:10
Calcium	44	20.7	51.7	696		1	ICPMS	4/13/2010	22:10
Chromium	52	0.66	1.0	8.7		1	ICPMS	4/13/2010	22:10
Cobalt	59	0.054	0.21	1.1		1	ICPMS	4/13/2010	22:10
Copper	63	0.21	1.0	12.8		1	ICPMS	4/13/2010	22:10
Iron	57	4.1	5.2	4750		1	ICPMS	4/13/2010	22:10
Lead	208	0.16	0.31	3.0		1	ICPMS	4/13/2010	22:10
Magnesium	24	3.3	51.7	598		1	ICPMS	4/13/2010	22:10
Manganese	55	0.16	0.52	170	N	1	ICPMS	4/13/2010	22:10
Nickel	60	0.16	0.52	7.5	E	1	ICPMS	4/13/2010	22:10
Potassium	39	3.1	10.3	503		1	ICPMS	4/13/2010	22:10
Selenium	78	0.083	0.52	1.2		1	ICPMS	4/13/2010	22:10
Silver	107	0.023	0.21	0.037	J	1	ICPMS	4/13/2010	22:10
Sodium	23	6.7	20.7	323		1	ICPMS	4/13/2010	22:10
Thallium	205	0.16	0.21	0.16	U*	1	ICPMS	4/13/2010	22:10
Uranium	238	0.021	0.10	0.45	E	1	ICPMS	4/13/2010	22:10
Vanadium	51	0.76	1.0	4.2		1	ICPMS	4/13/2010	22:10
Zinc	66	2.0	2.1	24.0	E	1	ICPMS	4/13/2010	22:10

Comments: Lot #: F0D080495 Sample #: 7

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.4	40.2	85.0		1	CVAA	4/16/2010	13:06

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.2	39.5	31.8	J	1	CVAA	4/16/2010	13:08

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.0	38.9	21.6	J	1	CVAA	4/16/2010	13:11

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	14.1	39.1	19.0	J	1	CVAA	4/16/2010	13:13

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	12.8	35.5	22.2	J	1	CVAA	4/16/2010	13:17

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	13.9	38.8	19.4	J	1	CVAA	4/16/2010	13:19

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	12.4	34.5	14.3	J	1	CVAA	4/16/2010	13:23

Comments: Lot #: F0D080495 Sample #: 7

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: CVAA

Units: ug/L

Chart Number: AA0415C.PRN

Acceptable Range: 90% - 110%

Standard Source: Leeman

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/15/2010 5:54 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Mercury	253.7	2.5	2.46		98.4												

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310A2.csv

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/13/2010 1:55 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	400.0	411.40		**102.8**												
Arsenic	75	100.0	100.00		**100.0**												
Barium	137	100.0	95.57		**95.6**												
Beryllium	9	100.0	96.66		**96.7**												
Cadmium	111	100.0	97.61		**97.6**												
Calcium	44	400.0	415.90		**104.0**												
Chromium	52	100.0	104.70		**104.7**												
Cobalt	59	100.0	105.80		**105.8**												
Copper	63	100.0	104.20		**104.2**												
Iron	57	400.0	420.90		**105.2**												
Lead	208	100.0	100.30		**100.3**												
Magnesium	24	400.0	421.20		**105.3**												
Manganese	55	100.0	101.60		**101.6**												
Nickel	60	100.0	101.40		**101.4**												
Potassium	39	400.0	417.00		**104.3**												
Selenium	78	100.0	102.90		**102.9**												
Silver	107	20.0	19.88		**99.4**												
Sodium	23	400.0	420.50		**105.1**												
Thallium	205	100.0	104.50		**104.5**												
Uranium	238	100.0	99.92		**99.9**												
Vanadium	51	100.0	103.80		**103.8**												
Zinc	66	100.0	104.30		**104.3**												

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: CVAA

Units: ug/L

Chart Number: AA0415C.PRN

Acceptable Range: 80% - 120%

Standard Source: Leeman

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/15/2010 6:20 PM			CCV 4/15/2010 6:52 PM			CCV 4/15/2010 7:24 PM			CCV 4/15/2010 7:58 PM			CCV 4/15/2010 8:29 PM		
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Mercury	253.7	5.0	4.89		97.8	4.86		97.2	5.03		100.6	4.88		97.6	4.80		96.0

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: CVAA

Units: ug/L

Chart Number: AA0415C.PRN

Acceptable Range: 80% - 120%

Standard Source: Leeman

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/16/2010 12:23 PM			CCV 4/16/2010 12:56 PM			CCV 4/16/2010 1:29 PM								
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Mercury	253.7	5.0	4.32		86.4	4.63		92.6	4.60		92.0						

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310A2.csv

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/13/2010 2:31 PM			CCV 4/13/2010 3:29 PM			CCV 4/13/2010 4:55 PM			CCV 4/13/2010 6:21 PM			CCV 4/13/2010 7:47 PM		
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	1250.0	1277.00		**102.2**	1271.00		**101.7**	1194.00		**95.5**	1190.00		**95.2**	1196.00		**95.7**
Arsenic	75	100.0	100.30		**100.3**	100.00		**100.0**	99.39		**99.4**	99.62		**99.6**	100.10		**100.1**
Barium	137	100.0	100.40		**100.4**	95.28		**95.3**	97.51		**97.5**	98.34		**98.3**	97.85		**97.8**
Beryllium	9	100.0	98.95		**99.0**	93.51		**93.5**	91.02		**91.0**	91.09		**91.1**	90.65		**90.7**
Cadmium	111	100.0	100.00		**100.0**	96.36		**96.4**	96.69		**96.7**	97.17		**97.2**	96.81		**96.8**
Calcium	44	2500.0	2597.00		**103.9**	2549.00		**102.0**	2507.00		**100.3**	2516.00		**100.6**	2489.00		**99.6**
Chromium	52	100.0	101.60		**101.6**	100.60		**100.6**	100.10		**100.1**	99.46		**99.5**	99.34		**99.3**
Cobalt	59	100.0	101.30		**101.3**	100.70		**100.7**	100.60		**100.6**	99.01		**99.0**	98.56		**98.6**
Copper	63	100.0	101.50		**101.5**	99.61		**99.6**	98.10		**98.1**	98.55		**98.5**	98.74		**98.7**
Iron	57	2500.0	2534.00		**101.4**	2562.00		**102.5**	2419.00		**96.8**	2405.00		**96.2**	2422.00		**96.9**
Lead	208	100.0	102.30		**102.3**	100.80		**100.8**	103.00		**103.0**	105.30		**105.3**	104.90		**104.9**
Magnesium	24	2500.0	2570.00		**102.8**	2576.00		**103.0**	2519.00		**100.8**	2541.00		**101.6**	2522.00		**100.9**
Manganese	55	100.0	101.60		**101.6**	99.97		**100.0**	95.16		**95.2**	95.37		**95.4**	95.75		**95.8**
Nickel	60	100.0	99.76		**99.8**	98.69		**98.7**	97.58		**97.6**	97.18		**97.2**	97.43		**97.4**
Potassium	39	1250.0	1293.00		**103.4**	1308.00		**104.6**	1255.00		**100.4**	1285.00		**102.8**	1270.00		**101.6**
Selenium	78	100.0	100.60		**100.6**	99.95		**100.0**	93.92		**93.9**	92.92		**92.9**	94.35		**94.3**
Silver	107	20.0	20.45		**102.3**	19.80		**99.0**	19.44		**97.2**	19.70		**98.5**	19.70		**98.5**
Sodium	23	1250.0	1287.00		**103.0**	1304.00		**104.3**	1304.00		**104.3**	1303.00		**104.2**	1293.00		**103.4**
Thallium	205	100.0	102.90		**102.9**	101.20		**101.2**	102.50		**102.5**	103.80		**103.8**	104.40		**104.4**
Uranium	238	100.0	101.90		**101.9**	101.00		**101.0**	103.10		**103.1**	102.50		**102.5**	103.60		**103.6**
Vanadium	51	100.0	103.10		**103.1**	103.10		**103.1**	102.80		**102.8**	103.50		**103.5**	103.10		**103.1**
Zinc	66	100.0	99.70		**99.7**	98.31		**98.3**	95.76		**95.8**	95.76		**95.8**	96.29		**96.3**

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310A2.csv

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/13/2010 9:13 PM Found	Q	% Rec	CCV 4/13/2010 10:17 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	1250.0	1196.00		**95.7**	1185.00		**94.8**									
Arsenic	75	100.0	99.95		**100.0**	99.06		**99.1**									
Barium	137	100.0	95.95		**96.0**	95.73		**95.7**									
Beryllium	9	100.0	92.53		**92.5**	90.58		**90.6**									
Cadmium	111	100.0	96.96		**97.0**	94.38		**94.4**									
Calcium	44	2500.0	2487.00		**99.5**	2469.00		**98.8**									
Chromium	52	100.0	99.11		**99.1**	97.57		**97.6**									
Cobalt	59	100.0	100.30		**100.3**	98.00		**98.0**									
Copper	63	100.0	98.37		**98.4**	97.34		**97.3**									
Iron	57	2500.0	2396.00		**95.8**	2366.00		**94.6**									
Lead	208	100.0	100.90		**100.9**	100.50		**100.5**									
Magnesium	24	2500.0	2526.00		**101.0**	2503.00		**100.1**									
Manganese	55	100.0	95.12		**95.1**	93.51		**93.5**									
Nickel	60	100.0	96.98		**97.0**	96.20		**96.2**									
Potassium	39	1250.0	1273.00		**101.8**	1255.00		**100.4**									
Selenium	78	100.0	93.87		**93.9**	92.33		**92.3**									
Silver	107	20.0	19.74		**98.7**	19.13		**95.6**									
Sodium	23	1250.0	1286.00		**102.9**	1277.00		**102.2**									
Thallium	205	100.0	100.80		**100.8**	99.72		**99.7**									
Uranium	238	100.0	98.39		**98.4**	99.66		**99.7**									
Vanadium	51	100.0	103.20		**103.2**	101.10		**101.1**									
Zinc	66	100.0	95.56		**95.6**	95.36		**95.4**									

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310A2.csv **Acceptable Range:** 70% - 130%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CRI 4/13/2010 2:10 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	30.0	31.89		**106.3**												
Arsenic	75	10.0	10.14		**101.4**												
Barium	137	2.0	2.01		**100.7**												
Beryllium	9	0.5	0.47		**93.5**												
Cadmium	111	0.5	0.50		**99.3**												
Calcium	44	100.0	107.30		**107.3**												
Chromium	52	10.0	10.76		**107.6**												
Cobalt	59	2.0	2.17		**108.5**												
Copper	63	1.0	0.87		**87.4**												
Iron	57	50.0	53.66		**107.3**												
Lead	208	3.0	3.01		**100.4**												
Magnesium	24	50.0	54.98		**110.0**												
Manganese	55	2.0	2.47		**123.6**												
Nickel	60	5.0	5.31		**106.1**												
Potassium	39	100.0	109.70		**109.7**												
Selenium	78	5.0	5.25		**105.1**												
Silver	107	2.0	2.01		**100.4**												
Sodium	23	50.0	58.08		**116.2**												
Thallium	205	2.0	2.00		**100.2**												
Uranium	238	1.0	1.03		**102.7**												
Vanadium	51	10.0	10.81		**108.1**												
Zinc	66	5.0	5.58		**111.6**												

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: CVAA **Units:** ug/L

Chart Number: AA0415C.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/15/2010 5:57 PM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U								

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310A2.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/13/2010 2:02 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	25	12.5	U								
Arsenic	75	5	1.5	U								
Barium	137	10	0.67	U								
Beryllium	9	0.5	0.076	U								
Cadmium	111	0.25	0.1	U								
Calcium	44	250	100	U								
Chromium	52	5	3.2	U								
Cobalt	59	1	0.26	U								
Copper	63	5	1	U								
Iron	57	25	20	U								
Lead	208	1.5	0.77	U								
Magnesium	24	250	15.7	U								
Manganese	55	2.5	0.75	U								
Nickel	60	2.5	0.75	U								
Potassium	39	50	15	U								
Selenium	78	2.5	0.4	U								
Silver	107	1	0.11	U								
Sodium	23	100	32.5	U								
Thallium	205	1	0.75	U								
Uranium	238	0.5	0.1	U								
Vanadium	51	5	3.7	U								
Zinc	66	10	9.6	U								

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: CVAA **Units:** ug/L

Chart Number: AA0415C.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/15/2010 6:23 PM		CCB 4/15/2010 6:54 PM		CCB 4/15/2010 7:27 PM		CCB 4/15/2010 8:00 PM		CCB 4/15/2010 8:32 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: CVAA **Units:** ug/L

Chart Number: AA0415C.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/16/2010 12:27 PM		CCB 4/16/2010 12:58 PM		CCB 4/16/2010 1:32 PM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U				

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310A2.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/13/2010 2:39 PM		CCB 4/13/2010 3:36 PM		CCB 4/13/2010 5:02 PM		CCB 4/13/2010 6:28 PM		CCB 4/13/2010 7:54 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	25	12.5	U	12.5	U	12.5	U	12.5	U	12.5	U
Arsenic	75	5	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Barium	137	10	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
Beryllium	9	0.5	0.076	U	0.076	U	0.076	U	0.076	U	0.076	U
Cadmium	111	0.25	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Calcium	44	250	100	U	100	U	100	U	100	U	100	U
Chromium	52	5	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Cobalt	59	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Copper	63	5	1	U	1	U	1	U	1	U	1	U
Iron	57	25	20	U	20	U	20	U	20	U	20	U
Lead	208	1.5	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U
Magnesium	24	250	15.7	U	15.7	U	15.7	U	15.7	U	15.7	U
Manganese	55	2.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Nickel	60	2.5	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Potassium	39	50	15	U	15	U	15	U	15	U	15	U
Selenium	78	2.5	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Silver	107	1	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Sodium	23	100	32.5	U	32.5	U	32.5	U	32.5	U	32.5	U
Thallium	205	1	0.75	U	0.75	U	0.75	U	0.75	U	**0.86**	**J**
Uranium	238	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Vanadium	51	5	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
Zinc	66	10	9.6	U	9.6	U	9.6	U	9.6	U	9.6	U

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310A2.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/13/2010 9:20 PM		CCB 4/13/2010 10:25 PM							
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	25	12.5	U	12.5	U						
Arsenic	75	5	1.5	U	1.5	U						
Barium	137	10	0.67	U	0.67	U						
Beryllium	9	0.5	0.076	U	0.076	U						
Cadmium	111	0.25	0.1	U	0.1	U						
Calcium	44	250	100	U	100	U						
Chromium	52	5	3.2	U	3.2	U						
Cobalt	59	1	0.26	U	0.26	U						
Copper	63	5	1	U	1	U						
Iron	57	25	20	U	20	U						
Lead	208	1.5	0.77	U	0.77	U						
Magnesium	24	250	15.7	U	15.7	U						
Manganese	55	2.5	0.75	U	0.75	U						
Nickel	60	2.5	0.75	U	0.75	U						
Potassium	39	50	15	U	15	U						
Selenium	78	2.5	0.4	U	0.4	U						
Silver	107	1	0.11	U	0.11	U						
Sodium	23	100	32.5	U	32.5	U						
Thallium	205	1	0.75	U	0.75	U						
Uranium	238	0.5	0.1	U	0.1	U						
Vanadium	51	5	3.7	U	3.7	U						
Zinc	66	10	9.6	U	9.6	U						

U Result is less than the IDL
J Result is between IDL and RL

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Blank Results **SDG:** Test

Lab Sample ID: LXPT9B

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	2.5	5.0	2.5	U	1	ICPMS	4/13/2010	18:57
Arsenic	75	0.31	1.0	0.31	U	1	ICPMS	4/13/2010	18:57
Barium	137	0.13	2.0	0.13	U	1	ICPMS	4/13/2010	18:57
Beryllium	9	0.015	0.10	0.015	U	1	ICPMS	4/13/2010	18:57
Cadmium	111	0.020	0.050	0.020	U	1	ICPMS	4/13/2010	18:57
Calcium	44	20.0	50.0	20.0	U	1	ICPMS	4/13/2010	18:57
Chromium	52	0.64	1.0	0.64	U	1	ICPMS	4/13/2010	18:57
Cobalt	59	0.052	0.20	0.052	U	1	ICPMS	4/13/2010	18:57
Copper	63	0.20	1.0	0.20	U	1	ICPMS	4/13/2010	18:57
Iron	**57**	**4.0**	**5.0**	**5.6**		**1**	**ICPMS**	**4/13/2010**	**18:57**
Lead	208	0.15	0.30	0.15	U	1	ICPMS	4/13/2010	18:57
Magnesium	24	3.1	50.0	3.1	U	1	ICPMS	4/13/2010	18:57
Manganese	55	0.15	0.50	0.15	U	1	ICPMS	4/13/2010	18:57
Nickel	60	0.15	0.50	0.15	U	1	ICPMS	4/13/2010	18:57
Potassium	39	3.0	10.0	3.0	U	1	ICPMS	4/13/2010	18:57
Selenium	78	0.080	0.50	0.080	U	1	ICPMS	4/13/2010	18:57
Silver	107	0.022	0.20	0.022	U	1	ICPMS	4/13/2010	18:57
Sodium	23	6.5	20.0	6.5	U	1	ICPMS	4/13/2010	18:57
Thallium	205	0.15	0.20	0.15	U	1	ICPMS	4/13/2010	18:57
Uranium	238	0.020	0.10	0.020	U	1	ICPMS	4/13/2010	18:57
Vanadium	51	0.74	1.0	0.74	U	1	ICPMS	4/13/2010	18:57
Zinc	66	1.9	2.0	1.9	U	1	ICPMS	4/13/2010	18:57

Comments: Lot #: F0C250548

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Blank Results **SDG:** Test

Lab Sample ID: LXXKCB

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	12.0	33.3	12.0	U	1	CVAA	4/16/2010	12:32

Comments: Lot #: F0C300511

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Interference Check Standard A

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310A2.csv

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	Rpting Limit	True Conc	ICSA 4/13/2010 2:17 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27		10000	9810									
Arsenic	75	5		-0.095	U								
Barium	137	10		0.036	U								
Beryllium	9	0.5		-0.006	U								
Cadmium	111	0.25		0.120	J								
Calcium	44		10000	9790									
Chromium	52	5		0.140	U								
Cobalt	59	1		0.002	U								
Copper	63	5		-0.210	U								
Iron	57		10000	10300									
Lead	208	1.5		0.022	U								
Magnesium	24		10000	9780									
Manganese	55	2.5		0.072	U								
Nickel	60	2.5		0.100	U								
Potassium	39		10000	9570									
Selenium	78	2.5		0.021	U								
Silver	107	1		0.013	U								
Sodium	23		10000	9730									
Thallium	205	1		0.011	U								
Uranium	238	0.5		-0.009	U								
Vanadium	51	5		-0.013	U								
Zinc	66	10		3	U								

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Interference Check Standard AB

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310A2.csv

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 4/13/2010 2:24 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	10000.0	9978.0		**99.8**												
Arsenic	75	100.0	101.1		**101.1**												
Barium	137	100.0	96.2		**96.2**												
Beryllium	9	100.0	99.0		**99.0**												
Cadmium	111	100.0	94.7		**94.7**												
Calcium	44	10000.0	9714.0		**97.1**												
Chromium	52	100.0	102.1		**102.1**												
Cobalt	59	100.0	99.5		**99.5**												
Copper	63	100.0	99.0		**99.0**												
Iron	57	10000.0	10130.0		**101.3**												
Lead	208	100.0	98.9		**98.9**												
Magnesium	24	10000.0	10080.0		**100.8**												
Manganese	55	100.0	100.9		**100.9**												
Nickel	60	100.0	98.1		**98.1**												
Potassium	39	10000.0	9853.0		**98.5**												
Selenium	78	100.0	101.3		**101.3**												
Silver	107	20.0	19.2		**95.9**												
Sodium	23	10000.0	10010.0		**100.1**												
Thallium	205	100.0	99.7		**99.7**												
Uranium	238	100.0	100.2		**100.2**												
Vanadium	51	100.0	104.9		**104.9**												
Zinc	66	100.0	102.1		**102.1**												

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed

Form 4 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

SDG: Test

Spike Sample ID: LW48HS

Original Sample ID: LW48H **Client ID:** RE46-10-13355 S

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 24.72

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	27	2570		6510	N	1328.4	296.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Arsenic	75	1.5		130		132.84	96.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Barium	137	37.0		167		132.84	97.8	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Beryllium	9	0.34		121		132.84	91.1	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Cadmium	111	0.074		130		132.84	97.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Calcium	44	993		2290		1328.4	97.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Chromium	52	2.0		132		132.84	98.2	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Cobalt	59	1.3		132		132.84	98.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Copper	63	3.0		126		132.84	92.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Iron	57	4810		6240		1328.4	107.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Lead	208	6.1		150		132.84	108.3	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Magnesium	24	610		2100		1328.4	112.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Manganese	55	192		266	N	132.84	56.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Nickel	60	2.9		129		132.84	95.3	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Potassium	39	647		2240		1328.4	120.1	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Selenium	78	1.1		122		132.84	91.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Silver	107	0.035	J	13.0		13.284	98.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Sodium	23	45.4		1460		1328.4	106.2	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Thallium	205	0.40		149		132.84	112.2	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Uranium	238	0.45		157		132.84	118.2	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Vanadium	51	5.1		139		132.84	100.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40
Zinc	66	21.5		145		132.84	92.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:40

Comments: Lot #: F0C250548 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

SDG: Test

Spike Sample ID: LXNK6S

Original Sample ID: LXNK6 **Client ID:** RE12-10-15443 S

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	75	3.5		7.5		4.7354	84.4	1	1	ICPMS	4/13/2010	21:27	4/13/2010	21:35
Cadmium	111	0.046	J	0.61		0.5919	95.8	1	1	ICPMS	4/13/2010	21:27	4/13/2010	21:35
Lead	208	16.2		25.5		11.839	78.8	1	1	ICPMS	4/13/2010	21:27	4/13/2010	21:35
Selenium	78	1.1		1.9	N	1.1839	69.3	1	1	ICPMS	4/13/2010	21:27	4/13/2010	21:35
Thallium	205	0.24		6.9		5.9193	112.0	1	1	ICPMS	4/13/2010	21:27	4/13/2010	21:35

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

SDG: Test

Spike Sample ID: LXAHWS

Original Sample ID: LXAHW **Client ID:** RE16-10-3669 S

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 11.92

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	13.6	U	187		189.22	98.7	1	1	CVAA	4/16/2010	12:38	4/16/2010	12:45

Comments: Lot #: F0C300511 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** Test

Duplicate Sample ID: LW48HX

Original Sample ID: LW48H **Client ID:** RE46-10-13355 X

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 24.72

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Aluminum	27	2570	N	2360		8.6	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Arsenic	75	1.5		1.4		12.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Barium	137	37.0		33.4		10.3	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Beryllium	9	0.34		0.34		0.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Cadmium	111	0.074		0.063	J	15.8	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Calcium	44	993		902		9.6	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Chromium	52	2.0		1.7		17.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Cobalt	59	1.3		0.99		25.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Copper	63	3.0		2.8		8.3	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Iron	57	4810		4810			1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Lead	208	6.1		5.1		17.9	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Magnesium	24	610		506		18.5	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Manganese	55	192	N	174		9.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Nickel	60	2.9	E	2.6		10.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Potassium	39	647		568		13.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Selenium	78	1.1		1.0		12.6	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Silver	107	0.035	J	0.035	J	0.4	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Sodium	23	45.4		42.3		6.9	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Thallium	205	0.40		0.20	U*	200.0	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Uranium	238	0.45	E	0.41		9.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Vanadium	51	5.1		4.5		11.1	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33
Zinc	66	21.5	E	20.3		5.7	1	1	ICPMS	4/13/2010	19:18	4/13/2010	19:33

U Result is less than the IDL
J Result is between IDL and RL
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** Test

Duplicate Sample ID: LXAHWX

Original Sample ID: LXAHW **Client ID:** RE16-10-3669 X

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 11.92

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Mercury	253.7	13.6	U	13.6	U		1	1	CVAA	4/16/2010	12:38	4/16/2010	12:43

U Result is less than the IDL
J Result is between IDL and RL
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** Test

Lab Sample ID: LXPT9C

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	27	11000	10300	93.7		42.8-144.5	2.5	ICPMS	4/13/2010	19:04
Arsenic	75	158	188	118.7		0.2-129.1	2.5	ICPMS	4/13/2010	19:04
Barium	137	348	386	111.0		74.1-125.8	2.5	ICPMS	4/13/2010	19:04
Beryllium	9	106	108	102.0		4.9-125.4	2.5	ICPMS	4/13/2010	19:04
Cadmium	111	187	206	109.9		73.2-126.7	2.5	ICPMS	4/13/2010	19:04
Calcium	44	9650	10200	106.2		5.4-124.3	2.5	ICPMS	4/13/2010	19:04
Chromium	52	89.4	103	115.1		69.1-130.7	2.5	ICPMS	4/13/2010	19:04
Cobalt	59	277	318	114.9		74.3-125.6	2.5	ICPMS	4/13/2010	19:04
Copper	63	129	144	111.8		4.8-125.5	2.5	ICPMS	4/13/2010	19:04
Iron	57	18600	20200	108.7		2.5-156.9	2.5	ICPMS	4/13/2010	19:04
Lead	208	172	198	115.4		3.8-125.5	2.5	ICPMS	4/13/2010	19:04
Magnesium	24	5030	5600	111.4		71.3-128.6	2.5	ICPMS	4/13/2010	19:04
Manganese	55	633	673	106.4		77.7-122.1	2.5	ICPMS	4/13/2010	19:04
Nickel	60	99.0	114	114.8		2.2-127.2	2.5	ICPMS	4/13/2010	19:04
Potassium	39	4010	4380	109.2		4.8-135.1	2.5	ICPMS	4/13/2010	19:04
Selenium	78	148	176	118.7		67.1-132.4	2.5	ICPMS	4/13/2010	19:04
Silver	107	66.0	73.0	110.6		66.9-132.8	2.5	ICPMS	4/13/2010	19:04
Sodium	23	883	984	111.5		8.7-141.5	2.5	ICPMS	4/13/2010	19:04
Thallium	205	268	321	119.8		69.4-130.2	2.5	ICPMS	4/13/2010	19:04
Uranium	238	100	117	116.8		80-120	1	ICPMS	4/13/2010	19:11
Vanadium	51	194	225	115.9		73.2-126.8	2.5	ICPMS	4/13/2010	19:04
Zinc	66	394	441	111.8		72.6-127.4	2.5	ICPMS	4/13/2010	19:04

Comments: Lot #: F0C250548

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 7 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** Test

Lab Sample ID: LXXKCC

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	7330	6430	87.7		52.2-148.5	10	CVAA	4/16/2010	12:35

Comments: Lot #: F0C300511

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 7 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** Test

Serial Dilution Sample ID: LW48HV

Original Sample ID: LW48H **Client ID:** RE46-10-13355 V

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/9/2010 **Prep Batch:** 0099059

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 24.72

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	27	2570	N	2700		5.0	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Arsenic	75	1.5		2.1	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Barium	137	37.0		37.7		2.0	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Beryllium	9	0.34		0.37	J	9.0	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Cadmium	111	0.074		0.13	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Calcium	44	993		1020		3.0	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Chromium	52	2.0		4.2	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Cobalt	59	1.3		1.3		4.7	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Copper	63	3.0		2.9	J	4.6	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Iron	57	4810		5070		5.4	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Lead	208	6.1		5.5		8.5	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Magnesium	24	610		617		1.2	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Manganese	55	192	N	209		9.1	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Nickel	60	2.9		3.3	E	15.3	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Potassium	39	647		682		5.4	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Selenium	78	1.1		1.2	J	8.1	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Silver	107	0.035	J	0.15	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Sodium	23	45.4		47.0	J	3.6	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Thallium	205	0.40		1.0	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Uranium	238	0.45		0.38	JE	15.2	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Vanadium	51	5.1		4.9	U		1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25
Zinc	66	21.5		24.0	E	11.5	1	5	ICPMS	4/13/2010	19:18	4/13/2010	19:25

Comments:

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** Test

Serial Dilution Sample ID: LXAHWV

Original Sample ID: LXAHW **Client ID:** RE16-10-3669 V

Matrix: Soil **Units:** ug/kg **Prep Date:** 4/15/2010 **Prep Batch:** 0104170

Weight: 0.6 **Volume:** 100 **Percent Moisture:** 11.92

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Mercury	253.7	13.6	U	68.0	U		1	5	CVAA	4/16/2010	12:38	4/16/2010	12:40

Comments:

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Detection Limits **SDG:** Test

Instrument: CVAA **Units:** ug/L

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Mercury	253.700	0.2	0.072	12/14/2009

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Detection Limits **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Mass	Reporting Limit	MDL	Date of MDL
Aluminum	27	25.0	12.5	2/16/2010
Arsenic	75	5.0	1.5	2/16/2010
Barium	137	10.0	0.67	2/16/2010
Beryllium	9	0.5	0.076	2/16/2010
Cadmium	111	0.3	0.10	2/16/2010
Calcium	44	250.0	100	2/16/2010
Chromium	52	5.0	3.2	2/16/2010
Cobalt	59	1.0	0.26	2/16/2010
Copper	63	5.0	1.0	2/16/2010
Iron	57	25.0	20.0	2/16/2010
Lead	208	1.5	0.77	2/16/2010
Magnesium	24	250.0	15.7	2/16/2010
Manganese	55	2.5	0.75	2/16/2010
Nickel	60	2.5	0.75	2/16/2010
Potassium	39	50.0	15.0	2/16/2010
Selenium	78	2.5	0.40	2/16/2010
Silver	107	1.0	0.11	2/16/2010
Sodium	23	100.0	32.5	2/16/2010
Thallium	205	1.0	0.75	2/16/2010
Uranium	238	0.5	0.10	2/16/2010
Vanadium	51	5.0	3.7	2/16/2010
Zinc	66	10.0	9.6	2/16/2010

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** Test

Instrument: CVAA **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	3/9/2010

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	200000	4/13/2010
Arsenic	75.00	2000	4/13/2010
Barium	137.00	5000	4/13/2010
Beryllium	9.00	1000	4/13/2010
Cadmium	111.00	2000	4/13/2010
Calcium	44.00	200000	4/13/2010
Chromium	52.00	2000	4/13/2010
Cobalt	59.00	2000	4/13/2010
Copper	63.00	5000	4/13/2010
Iron	57.00	200000	4/13/2010
Lead	208.00	5000	4/13/2010
Magnesium	24.00	200000	4/13/2010
Manganese	55.00	5000	4/13/2010
Nickel	60.00	2000	4/13/2010
Potassium	39.00	200000	4/13/2010
Selenium	78.00	2000	4/13/2010
Silver	107.00	400	4/13/2010
Sodium	23.00	200000	4/13/2010
Thallium	205.00	2000	4/13/2010
Uranium	238.00	2000	4/13/2010
Vanadium	51.00	2000	4/13/2010
Zinc	66.00	5000	4/13/2010

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Log **SDG:** Test

Preparation Batch: 0099059 **Instrument:** ICPMS **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
LXPT9B	4/9/2010	0.5	100	NA
LXPT9C	4/9/2010	0.5	100	NA
LW48H	4/9/2010	0.5	100	24.72
LW48HS	4/9/2010	0.5	100	24.72
LW48HX	4/9/2010	0.5	100	24.72
LXNK6	4/9/2010	0.5	100	15.53
LXNK6S	4/9/2010	0.5	100	15.53
LXNK8	4/9/2010	0.5	100	14.36
LXNKX	4/9/2010	0.5	100	17.07
LXNLC	4/9/2010	0.5	100	14.85
LXNLE	4/9/2010	0.5	100	6.15
LXNLH	4/9/2010	0.5	100	13.98
LXNLK	4/9/2010	0.5	100	3.31

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Log **SDG:** Test

Preparation Batch: 0104170 **Instrument:** CVAA **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
LXXKCB	4/15/2010	0.6	100	NA
LXXKCC	4/15/2010	0.6	100	NA
LXAHW	4/15/2010	0.6	100	11.92
LXAHWS	4/15/2010	0.6	100	11.92
LXAHWX	4/15/2010	0.6	100	11.92
LXNK6	4/15/2010	0.6	100	15.53
LXNK8	4/15/2010	0.6	100	14.36
LXNKX	4/15/2010	0.6	100	17.07
LXNLC	4/15/2010	0.6	100	14.85
LXNLE	4/15/2010	0.6	100	6.15
LXNLH	4/15/2010	0.6	100	13.98
LXNLK	4/15/2010	0.6	100	3.31

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: CVAA **Chart Number:** AA0415C.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std01Rep1		4/15/2010	17:39
Std02Rep1		4/15/2010	17:41
Std03Rep1		4/15/2010	17:44
Std04Rep1		4/15/2010	17:47
Std05Rep1		4/15/2010	17:49
Std06Rep1		4/15/2010	17:52
ICV		4/15/2010	17:54
ICB		4/15/2010	17:57
ZZZZZZ		4/15/2010	17:59
ZZZZZZ		4/15/2010	18:02
ZZZZZZ		4/15/2010	18:04
ZZZZZZ		4/15/2010	18:07
ZZZZZZ		4/15/2010	18:09
ZZZZZZ		4/15/2010	18:12
ZZZZZZ		4/15/2010	18:15
ZZZZZZ		4/15/2010	18:17
CCV		4/15/2010	18:20
CCB		4/15/2010	18:23
ZZZZZZ		4/15/2010	18:25
ZZZZZZ		4/15/2010	18:28
ZZZZZZ		4/15/2010	18:31
ZZZZZZ		4/15/2010	18:34
ZZZZZZ		4/15/2010	18:37
ZZZZZZ		4/15/2010	18:39
ZZZZZZ		4/15/2010	18:42
ZZZZZZ		4/15/2010	18:44
ZZZZZZ		4/15/2010	18:47
ZZZZZZ		4/15/2010	18:49
CCV		4/15/2010	18:52
CCB		4/15/2010	18:54
ZZZZZZ		4/15/2010	18:57
ZZZZZZ		4/15/2010	19:00
ZZZZZZ		4/15/2010	19:02
ZZZZZZ		4/15/2010	19:05
ZZZZZZ		4/15/2010	19:07
ZZZZZZ		4/15/2010	19:10
ZZZZZZ		4/15/2010	19:13
ZZZZZZ		4/15/2010	19:16
ZZZZZZ		4/15/2010	19:19

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: CVAA **Chart Number:** AA0415C.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/15/2010	19:21
CCV		4/15/2010	19:24
CCB		4/15/2010	19:27
ZZZZZZ		4/15/2010	19:31
ZZZZZZ		4/15/2010	19:34
ZZZZZZ		4/15/2010	19:37
ZZZZZZ		4/15/2010	19:40
ZZZZZZ		4/15/2010	19:42
ZZZZZZ		4/15/2010	19:45
ZZZZZZ		4/15/2010	19:47
ZZZZZZ		4/15/2010	19:50
ZZZZZZ		4/15/2010	19:52
ZZZZZZ		4/15/2010	19:55
CCV		4/15/2010	19:58
CCB		4/15/2010	20:00
ZZZZZZ		4/15/2010	20:04
ZZZZZZ		4/15/2010	20:06
ZZZZZZ		4/15/2010	20:09
ZZZZZZ		4/15/2010	20:12
ZZZZZZ		4/15/2010	20:14
ZZZZZZ		4/15/2010	20:17
ZZZZZZ		4/15/2010	20:19
ZZZZZZ		4/15/2010	20:22
ZZZZZZ		4/15/2010	20:24
ZZZZZZ		4/15/2010	20:27
CCV		4/15/2010	20:29
CCB		4/15/2010	20:32
ZZZZZZ		4/15/2010	20:34
ZZZZZZ		4/15/2010	20:38
ZZZZZZ		4/15/2010	20:40
ZZZZZZ		4/15/2010	20:43
ZZZZZZ		4/15/2010	20:47
ZZZZZZ		4/15/2010	20:50
CCV		4/16/2010	12:23
CCB		4/16/2010	12:27
ZZZZZZ		4/16/2010	12:29
LXXKCB		4/16/2010	12:32
LXXKCC		4/16/2010	12:35
LXAHW	RE16-10-3669	4/16/2010	12:38

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: CVAA **Chart Number:** AA0415C.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
LXAHWV	RE16-10-3669 V	4/16/2010	12:40
LXAHWX	RE16-10-3669 X	4/16/2010	12:43
LXAHWS	RE16-10-3669 S	4/16/2010	12:45
ZZZZZZ		4/16/2010	12:48
ZZZZZZ		4/16/2010	12:50
ZZZZZZ		4/16/2010	12:53
CCV		4/16/2010	12:56
CCB		4/16/2010	12:58
ZZZZZZ		4/16/2010	13:00
ZZZZZZ		4/16/2010	13:03
LXNKX	RE12-10-15444	4/16/2010	13:06
LXNK6	RE12-10-15443	4/16/2010	13:08
LXNK8	RE12-10-15442	4/16/2010	13:11
LXNLC	RE12-10-15448	4/16/2010	13:13
LXNLE	RE12-10-15446	4/16/2010	13:17
LXNLH	RE12-10-15445	4/16/2010	13:19
LXNLK	RE12-10-15447	4/16/2010	13:23
ZZZZZZ		4/16/2010	13:26
CCV		4/16/2010	13:29
CCB		4/16/2010	13:32
ZZZZZZ		4/16/2010	13:34
ZZZZZZ		4/16/2010	13:37
ZZZZZZ		4/16/2010	13:40
ZZZZZZ		4/16/2010	13:44
ZZZZZZ		4/16/2010	13:46
ZZZZZZ		4/16/2010	13:49
ZZZZZZ		4/16/2010	13:52
ZZZZZZ		4/16/2010	13:54
ZZZZZZ		4/16/2010	13:57
ZZZZZZ		4/16/2010	13:59
ZZZZZZ		4/16/2010	14:01
ZZZZZZ		4/16/2010	14:04
ZZZZZZ		4/16/2010	14:06
ZZZZZZ		4/16/2010	14:09
ZZZZZZ		4/16/2010	14:12
ZZZZZZ		4/16/2010	14:14
ZZZZZZ		4/16/2010	14:17
ZZZZZZ		4/16/2010	14:20
ZZZZZZ		4/16/2010	14:23

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog

SDG: Test

Instrument: CVAA

Chart Number: AA0415C.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/16/2010	14:25
ZZZZZZ		4/16/2010	14:28
ZZZZZZ		4/16/2010	14:31
ZZZZZZ		4/16/2010	14:33
ZZZZZZ		4/16/2010	14:36
ZZZZZZ		4/16/2010	14:38
ZZZZZZ		4/16/2010	14:41
ZZZZZZ		4/16/2010	14:43
ZZZZZZ		4/16/2010	14:46
ZZZZZZ		4/16/2010	14:49

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310A2.csv

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	13:19
CAL BLK		4/13/2010	13:26
CAL 1		4/13/2010	13:34
CAL 2		4/13/2010	13:41
CAL 3		4/13/2010	13:48
ICV		4/13/2010	13:55
ICB		4/13/2010	14:02
CRI		4/13/2010	14:10
ICSA		4/13/2010	14:17
ICSAB		4/13/2010	14:24
CCV		4/13/2010	14:31
CCB		4/13/2010	14:39
ZZZZZZ		4/13/2010	14:46
ZZZZZZ		4/13/2010	14:53
ZZZZZZ		4/13/2010	15:00
ZZZZZZ		4/13/2010	15:07
ZZZZZZ		4/13/2010	15:14
ZZZZZZ		4/13/2010	15:22
CCV		4/13/2010	15:29
CCB		4/13/2010	15:36
ZZZZZZ		4/13/2010	15:43
ZZZZZZ		4/13/2010	15:51
ZZZZZZ		4/13/2010	15:58
ZZZZZZ		4/13/2010	16:05
ZZZZZZ		4/13/2010	16:12
ZZZZZZ		4/13/2010	16:19
ZZZZZZ		4/13/2010	16:26
ZZZZZZ		4/13/2010	16:33
ZZZZZZ		4/13/2010	16:41
ZZZZZZ		4/13/2010	16:48
CCV		4/13/2010	16:55
CCB		4/13/2010	17:02
ZZZZZZ		4/13/2010	17:09
ZZZZZZ		4/13/2010	17:17
ZZZZZZ		4/13/2010	17:24
ZZZZZZ		4/13/2010	17:31
ZZZZZZ		4/13/2010	17:38
ZZZZZZ		4/13/2010	17:45
ZZZZZZ		4/13/2010	17:52

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310A2.csv

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	18:00
ZZZZZZ		4/13/2010	18:07
ZZZZZZ		4/13/2010	18:14
CCV		4/13/2010	18:21
CCB		4/13/2010	18:28
ZZZZZZ		4/13/2010	18:36
ZZZZZZ		4/13/2010	18:43
ZZZZZZ		4/13/2010	18:50
LXPT9B		4/13/2010	18:57
LXPT9C		4/13/2010	19:04
LXPT9C		4/13/2010	19:11
LW48H	RE46-10-13355	4/13/2010	19:18
LW48HV	RE46-10-13355 V	4/13/2010	19:25
LW48HX	RE46-10-13355 X	4/13/2010	19:33
LW48HS	RE46-10-13355 S	4/13/2010	19:40
CCV		4/13/2010	19:47
CCB		4/13/2010	19:54
ZZZZZZ		4/13/2010	20:01
ZZZZZZ		4/13/2010	20:08
ZZZZZZ		4/13/2010	20:16
ZZZZZZ		4/13/2010	20:23
ZZZZZZ		4/13/2010	20:30
ZZZZZZ		4/13/2010	20:37
ZZZZZZ		4/13/2010	20:44
ZZZZZZ		4/13/2010	20:51
ZZZZZZ		4/13/2010	20:59
LXNKX	RE12-10-15444	4/13/2010	21:06
CCV		4/13/2010	21:13
CCB		4/13/2010	21:20
LXNK6	RE12-10-15443	4/13/2010	21:27
LXNK6S	RE12-10-15443 S	4/13/2010	21:35
LXNK8	RE12-10-15442	4/13/2010	21:42
LXNLC	RE12-10-15448	4/13/2010	21:49
LXNLE	RE12-10-15446	4/13/2010	21:56
LXNLH	RE12-10-15445	4/13/2010	22:03
LXNLK	RE12-10-15447	4/13/2010	22:10
CCV		4/13/2010	22:17
CCB		4/13/2010	22:25
ZZZZZZ		4/13/2010	22:32

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310A2.csv

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	22:39
ZZZZZZ		4/13/2010	22:46
ZZZZZZ		4/13/2010	22:53
ZZZZZZ		4/13/2010	23:01
ZZZZZZ		4/13/2010	23:08
ZZZZZZ		4/13/2010	23:14
ZZZZZZ		4/13/2010	23:21
ZZZZZZ		4/13/2010	23:29
ZZZZZZ		4/13/2010	23:36
ZZZZZZ		4/13/2010	23:43
ZZZZZZ		4/13/2010	23:50
ZZZZZZ		4/13/2010	23:57
ZZZZZZ		4/14/2010	0:04
ZZZZZZ		4/14/2010	0:11
ZZZZZZ		4/14/2010	0:18
ZZZZZZ		4/14/2010	0:25
ZZZZZZ		4/14/2010	0:32
ZZZZZZ		4/14/2010	0:40
ZZZZZZ		4/14/2010	0:47
ZZZZZZ		4/14/2010	0:55
ZZZZZZ		4/14/2010	1:02
ZZZZZZ		4/14/2010	1:09
ZZZZZZ		4/14/2010	1:16
ZZZZZZ		4/14/2010	1:23
ZZZZZZ		4/14/2010	1:31
ZZZZZZ		4/14/2010	1:38
ZZZZZZ		4/14/2010	1:45
ZZZZZZ		4/14/2010	1:52
ZZZZZZ		4/14/2010	2:00
ZZZZZZ		4/14/2010	2:07
ZZZZZZ		4/14/2010	2:14
ZZZZZZ		4/14/2010	2:21
ZZZZZZ		4/14/2010	2:29
ZZZZZZ		4/14/2010	2:36
ZZZZZZ		4/14/2010	2:43
ZZZZZZ		4/14/2010	2:51
ZZZZZZ		4/14/2010	2:58
ZZZZZZ		4/14/2010	3:05
ZZZZZZ		4/14/2010	3:12

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310A2.csv

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	3:19
ZZZZZZ		4/14/2010	3:27
ZZZZZZ		4/14/2010	3:34
ZZZZZZ		4/14/2010	3:41
ZZZZZZ		4/14/2010	3:49
ZZZZZZ		4/14/2010	3:56
ZZZZZZ		4/14/2010	4:03
ZZZZZZ		4/14/2010	4:11
ZZZZZZ		4/14/2010	4:18
ZZZZZZ		4/14/2010	4:25
ZZZZZZ		4/14/2010	4:33
ZZZZZZ		4/14/2010	4:40
ZZZZZZ		4/14/2010	4:47
ZZZZZZ		4/14/2010	4:54
ZZZZZZ		4/14/2010	5:01
ZZZZZZ		4/14/2010	5:09
ZZZZZZ		4/14/2010	5:16
ZZZZZZ		4/14/2010	5:22
ZZZZZZ		4/14/2010	5:29
ZZZZZZ		4/14/2010	5:37
ZZZZZZ		4/14/2010	5:44
ZZZZZZ		4/14/2010	5:51
ZZZZZZ		4/14/2010	5:58
ZZZZZZ		4/14/2010	6:06
ZZZZZZ		4/14/2010	6:12
ZZZZZZ		4/14/2010	6:19
ZZZZZZ		4/14/2010	6:26
ZZZZZZ		4/14/2010	6:33
ZZZZZZ		4/14/2010	6:41
ZZZZZZ		4/14/2010	6:48
ZZZZZZ		4/14/2010	6:55
ZZZZZZ		4/14/2010	7:02
ZZZZZZ		4/14/2010	7:10
ZZZZZZ		4/14/2010	7:17
ZZZZZZ		4/14/2010	7:24
ZZZZZZ		4/14/2010	7:31
ZZZZZZ		4/14/2010	7:38
ZZZZZZ		4/14/2010	7:45
ZZZZZZ		4/14/2010	7:53

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310A2.csv

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	8:00
ZZZZZZ		4/14/2010	8:07
ZZZZZZ		4/14/2010	8:14
ZZZZZZ		4/14/2010	8:21
ZZZZZZ		4/14/2010	8:28
ZZZZZZ		4/14/2010	8:35
ZZZZZZ		4/14/2010	8:42
ZZZZZZ		4/14/2010	8:49

METALS RAW DATA

KE 4/14/10 Std: MSA-041210 KE 4/15/10 File: 041310A2

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	ISTD Conc	on	Skip	Post
1		Keyword		TUNBEG	Start of TUNE						
2	C:\ICPCHEM\1\METHODS\TN_6020.M	6-Tune	1307		TUNE		1.000				
3		Keyword		TUNEND	End of TUNE						
4		Keyword		CALBEG	Start of CALIB						
5	C:\ICPCHEM\1\METHODS\2010.M	6-Blank	1		RINSE		1.000	Level 1			
6	C:\ICPCHEM\1\METHODS\2010.M	CalBlk	4		CAL BLK		Level 1	Level 1			
7	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1101		CAL 1		Level 2	Level 1			
8	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1102		CAL 2		Level 3	Level 1			
9	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1103		CAL 3		Level 4	Level 1			
10		Keyword		CALEND	End of CALIB						
11		Keyword		ICSBEG	Start of ICS						
12	C:\ICPCHEM\1\METHODS\2010.M	6-ICV	1104		ICV		1.000	Level 1			
13	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		ICB		1.000	Level 1			
14	C:\ICPCHEM\1\METHODS\2010.M	CRI	1101		LLC		1.000	Level 1			
15	C:\ICPCHEM\1\METHODS\2010.M	6-ICSA_D	1105		ICSA		1.000	Level 1			
16	C:\ICPCHEM\1\METHODS\2010.M	6-ICSAB	1106		ICSAB		1.000	Level 1			
17		Keyword		ICSEND	End of ICS						
18		Keyword		CCVBEG	Start of CCV						
19	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
20	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
21		Keyword		CCVEND	End of CCV						
22		Keyword		SMPLBEG	Start of SMPL						
23	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1201	SB@ 1000ppb	1PPM - Li, Be, (B@ 2ppm)	LDR	1.000	Level 1			
24	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1202	Ag@ 400ppb →	2PPM all other trace		1.000	Level 1			
25	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1204		5PPM - Ti, Sr, Mn, Ba, Cu, Zn, Pb		1.000	Level 1			
26	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1205		20PPM		1.000	Level 1			
27	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1206		100PPM		1.000	Level 1			
28	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	1207		200PPM - All salts		1.000	Level 1			
29	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
30	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
31	C:\ICPCHEM\1\METHODS\2010.M	6-MB	2101		LXM0LB	0098071	2.000	Level 1			
32	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_S	2102		LXM0LC		5.000	Level 1			
33	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2103		LXAHW		2.000	Level 1			
34	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2104		LXAHWV		10.00	Level 1			
35	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2105		LXAHWX		2.000	Level 1			
36	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2106		LXAHWS		2.000	Level 1			
37	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2107		LXAHWA		2.000	Level 1			
38	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2108	KE 4/15/10	LXAH8		2.000	Level 1			

All

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	ISTD Conc	on	Skip	su
39	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2109		LXAH8S		2.000	Level 1			
40	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2110	CCV	LXAJJ		2.000	Level 1			
41	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2111	CCB	LXAJL		2.000	Level 1			
42	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2112		LXAJP		2.000	Level 1			
43	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2201		LXC9E		2.000	Level 1			
44	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2202		LXC95		2.000	Level 1			
45	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2203		LXDCH		2.000	Level 1			
46	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2204		LXDCV		2.000	Level 1			
47	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2205		LXDC2		2.000	Level 1			
48	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2206		LXDC5		2.000	Level 1			
49	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2207		LXDDA		2.000	Level 1			
50	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2208	CCV	LXDE6		2.000	Level 1			
51	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2209	CCB	LXDFN KE 4/15/10 — All		2.000	Level 1			
52	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2210		LXDFR		2.000	Level 1			
53	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2211		LXLR4		2.000	Level 1			
54	C:\ICPCHEM\1\METHODS\2010.M	6-MB	2212		LXPT9B	0099059	2.000	Level 1			
55	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_S	2301		LXPT9C		5.000	Level 1			
56	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_O	2302		LXPT9C-ODD — U		2.000	Level 1			
57	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2303		LW48H		2.000	Level 1			
58	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2304		LW48HV		10.00	Level 1			
59	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2305		LW48HX		2.000	Level 1			
60	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2306	CCV	LW48HS		2.000	Level 1			
61	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2307	CCB	LW48HA		2.000	Level 1			
62	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2308		LW48P		2.000	Level 1			
63	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2309		LW48R		2.000	Level 1			
64	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2310		LW48T		2.000	Level 1			
65	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2311		LW48W		2.000	Level 1			
66	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2312		LW480		2.000	Level 1			
67	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2401		LW490		2.000	Level 1			
68	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2402		LW5AX		2.000	Level 1			
69	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2403		LW5A1		2.000	Level 1			
70	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2404	CCV	LXNKX		2.000	Level 1			
71	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2405	CCB	LXNK6		2.000	Level 1			
72	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2406		LXNK6S		2.000	Level 1			
73	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2407		LXNK8		2.000	Level 1			
74	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2408		LXNLC		2.000	Level 1			
75	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2409		LXNLE		2.000	Level 1			
76	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2410		LXNLH		2.000	Level 1			

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	ISTD Conc	on	Skip	su
77	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	2411		LXNLK — All		2.000	Level 1			
78	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
79	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB	0103317	1.000	Level 1			
80	C:\ICPCHEM\1\METHODS\2010.M	6-MB_DOD	4101	LXWJMB	~~LW9L4B~~ — All	~~0009082~~	2.000	Level 1			
81	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_O	4102	LXWJMC	~~LW9L4C~~	(B Re-extract)	2.000	Level 1			
82	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4103		~~LWXFM~~		5.000	Level 1			
83	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4104		LWXFMV	KC 4/14/10	25.00	Level 1			
84	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4105		LWXFMS		5.000	Level 1			
85	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4106		LWXFMD		5.000	Level 1			
86	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4107		LWXFMA KC 4/14/10		5.000	Level 1			
87	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4108		~~LWXFW~~ x2		5.000	Level 1			
88	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
89	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
90	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4109		LWXFM		2.000	Level 1			
91	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4110		LWXFMV		10.00	Level 1			
92	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4111		LWXFMS		2.000	Level 1			
93	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4112		LWXFMD — All		2.000	Level 1			
94	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4201		LWXFMA		2.000	Level 1			
95	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4202		LWXFW		2.000	Level 1			
96	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
97	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
98	C:\ICPCHEM\1\METHODS\2010.M	6-Blank	1		RINSE		1.000	Level 1			
99	C:\ICPCHEM\1\METHODS\2010.M	CalBlk	4		CAL BLK		Level 1	Level 1			
100	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1101		CAL 1		Level 2	Level 1			
101	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1102		CAL 2		Level 3	Level 1			
102	C:\ICPCHEM\1\METHODS\2010.M	CalStd	1103		CAL 3		Level 4	Level 1			
103	C:\ICPCHEM\1\METHODS\2010.M	6-ICV	1104		ICV		1.000	Level 1			
104	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		ICB		1.000	Level 1			
105	C:\ICPCHEM\1\METHODS\2010.M	CRI	1101		LLC (Mn+ DOD)		1.000	Level 1			
106	C:\ICPCHEM\1\METHODS\2010.M	6-ICSA_D	1105		ICSA		1.000	Level 1			
107	C:\ICPCHEM\1\METHODS\2010.M	6-ICSAB	1106		ICSAB		1.000	Level 1			
108	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
109	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
110	C:\ICPCHEM\1\METHODS\2010.M	6-MB	3101		LXNHFB	0098214	1.000	Level 1			
111	C:\ICPCHEM\1\METHODS\2010.M	6-LCS	3102		LXNHFC		1.000	Level 1			
112	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3103		LW483 — All		1.000	Level 1			
113	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3104		LW49H		1.000	Level 1			
114	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3105		LXAJ4		1.000	Level 1			

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	ISTD Conc	on	Skip	su
115	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3106		LXAJ4V		5.000	Level 1			
116	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3107		LXAJ4X		1.000	Level 1			
117	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3108		LXAJ4S		1.000	Level 1			
118	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3109		LXAJ4A		1.000	Level 1			
119	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3110	CCV	LXAJ7		1.000	Level 1			
120	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3111	CCB	LXAJ7S		1.000	Level 1			
121	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3112		LXAJ8		1.000	Level 1			
122	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3201		LXAJ9		1.000	Level 1			
123	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3202		LXDA0		1.000	Level 1			
124	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3203		LXDEW		1.000	Level 1			
125	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3204		LXE6Q		1.000	Level 1			
126	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3205		LXE7X		1.000	Level 1			
127	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
128	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
129	C:\ICPCHEM\1\METHODS\2010.M	6-MB_DOD	4101		LW9L4B	0089082	2.000	Level 1			
130	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_O	4102		LW9L4C		2.000	Level 1			
131	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4103		LWXFM		5.000	Level 1			
132	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4104		LWXFMV		25.00	Level 1			
133	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4105		LWXFMS		5.000	Level 1			
134	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4106		LWXFMD		5.000	Level 1			
135	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4107		LWXFMA		5.000	Level 1			
136	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4108		LWXFW		5.000	Level 1			
137	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
138	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
139	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4109		LWXFM		2.000	Level 1			
140	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4110		LWXFMV		10.00	Level 1			
141	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4111		LWXFMS		2.000	Level 1			
142	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4112		LWXFMD		2.000	Level 1			
143	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4201		LWXFMA		2.000	Level 1			
144	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	4202		LWXFW		2.000	Level 1			
145	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
146	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
147	C:\ICPCHEM\1\METHODS\2010.M	6-MB_DOD	3206		LXLFRB	0097080	2.000	Level 1			
148	C:\ICPCHEM\1\METHODS\2010.M	6-LCS_O	3207		LXLFRC		2.000	Level 1			
149	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3208		LW0V4		10.00	Level 1			
150	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3209		LW0V4V		50.00	Level 1			
151	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3210		LW0V4S PBT		10.00	Level 1			
152	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3211		LW0V4D		10.00	Level 1			

All

All

Fe, BA

KE 4/14/10

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	ISTD Conc	on	Skip	su
153	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3212		LW0V4A — Fe, BA		10.00	Level 1			
154	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3301		LW3E0		10.00	Level 1			
155	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
156	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
157	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3302	Fe↑BA↑	LW0V4		2.000	Level 1			
158	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3303		LW0V4V — All except Fe, BA		10.00	Level 1			
159	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3304	Fe↑, BA↑	LW0V4S		2.000	Level 1			
160	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3305		LW0V4D		2.000	Level 1			
161	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3306	Fe↑, BA↑	LW0V4A		2.000	Level 1			
162	C:\ICPCHEM\1\METHODS\2010.M	SAMPLE	3307		LW3E0 — All		2.000	Level 1			
163		Keyword		SMPLEND	End of SMPL						
164		Keyword		CCVBEG	Start of CCV						
165	C:\ICPCHEM\1\METHODS\2010.M	6-CCV	1102		CCV		1.000	Level 1			
166	C:\ICPCHEM\1\METHODS\2010.M	6-CCBDOD	4		CCB		1.000	Level 1			
167		Keyword		CCVEND	End of CCV						
168		Keyword		TERMBEG	Start of TERM						
169		Keyword		StandBy							
170		Keyword		TERMEND	End of TERM						
171		Keyword		End	End of Sequence						
172		Keyword		BLKBEG	Start of BLANK						
173		Keyword		BLKEND	End of BLANK						
174		Keyword		ERRBEG	Start of ERRTERM						
175		Keyword		StdToExt							
176		Keyword		ERREND	End of ERRTERM						

Calibration - C:\ICPCHEM\1\CALIB\2010.C

=== Graph Summary ===
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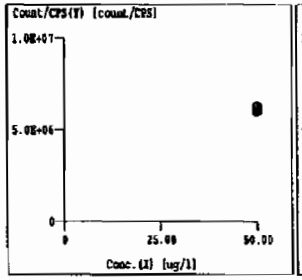
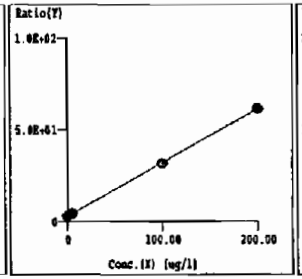
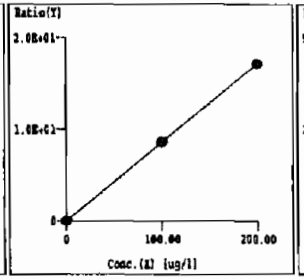
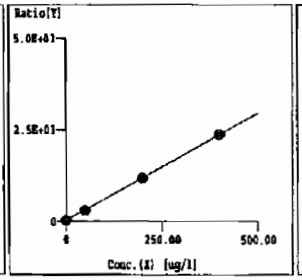
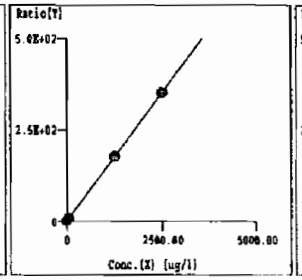
	(2) 6 Li	(2) 7 Li	(2) 9 Be	(2) 11 B	(1) 23 Na	(1) 24 Mg
< r >	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000
< DL >	--- ug/l	5.474E-01 ug/l	9.767E-03 ug/l	1.425E-01 ug/l	8.920E-01 ug/l	2.643E-02 ug/l
< BEC >	--- ug/l	10.08 ug/l	1.602E-02 ug/l	5.075 ug/l	15.79 ug/l	3.261E-01 ug/l

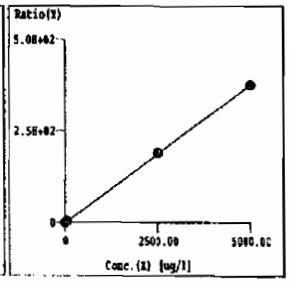




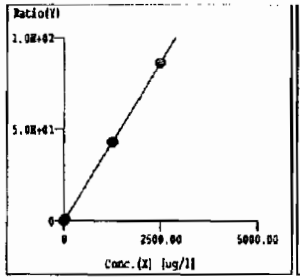


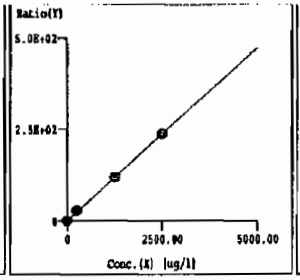


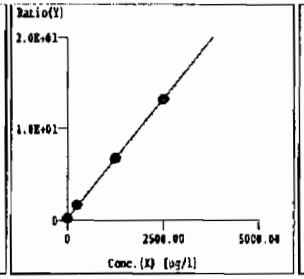


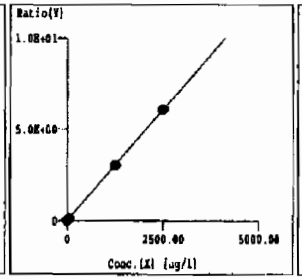


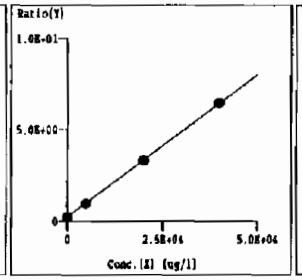
	(1) 27 Al	(2) 28 Si	(2) 29 Si	(1) 31 P	(1) 34 S	(2) 34 S
< r >	1.0000	0.9998	0.9999	1.0000	1.0000	0.9999
< DL >	9.526E-02 ug/l	1.193E-01 ug/l	3.064E-01 ug/l	1.990 ug/l	294.2 ug/l	10.56 ug/l
< BEC >	5.514E-01 ug/l	10.26 ug/l	40.22 ug/l	6.549 ug/l	1437 ug/l	2098 ug/l

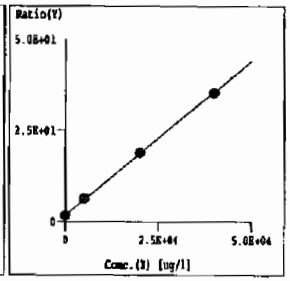












Calibration - C:\ICPCHEM\1\CALIB\2010.C

=== Graph Summary ===
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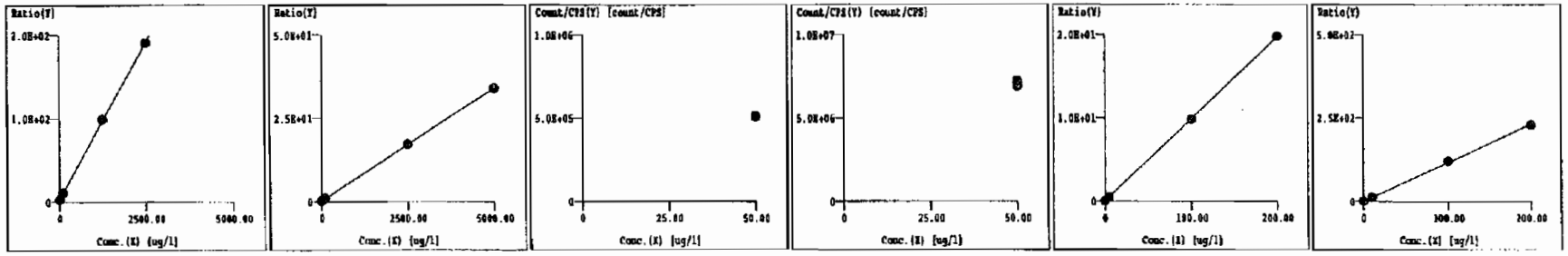
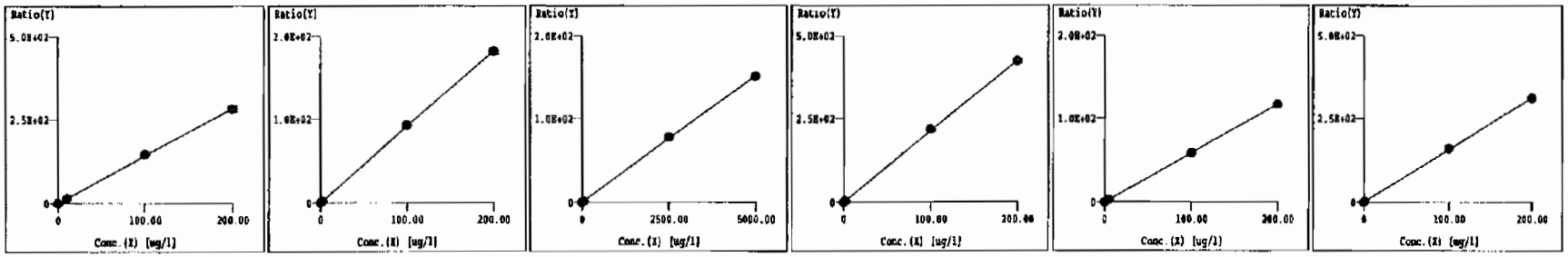
	(1) 39 K	(2) 44 Ca	(1) 45 Sc	(2) 45 Sc	(2) 47 Ti	(1) 51 V
< r >	0.9999	1.0000	0.0000	0.0000	1.0000	0.9997
< DL >	7.071E-01 ug/l	4.549 ug/l	— ug/l	— ug/l	2.657E-02 ug/l	3.733E-02 ug/l
< BEC >	42.45 ug/l	35.87 ug/l	— ug/l	— ug/l	2.995E-01 ug/l	8.752E-01 ug/l



	(1) 52 Cr	(1) 55 Mn	(1) 57 Fe	(1) 59 Co	(1) 60 Ni	(1) 63 Cu
< r >	0.9999	1.0000	0.9999	0.9999	1.0000	0.9999
< DL >	2.098E-02 ug/l	4.794E-03 ug/l	9.211E-01 ug/l	6.067E-03 ug/l	6.208E-03 ug/l	1.736E-03 ug/l
< BEC >	1.759E-01 ug/l	4.766E-02 ug/l	2.339 ug/l	1.037E-02 ug/l	4.510E-02 ug/l	3.246E-01 ug/l



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=== Graph Summary ===
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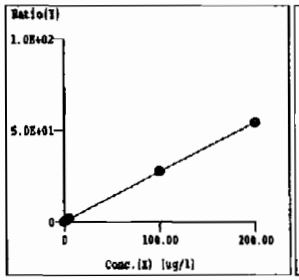
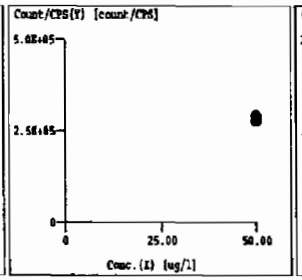
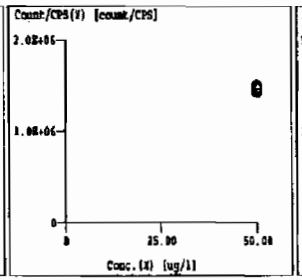
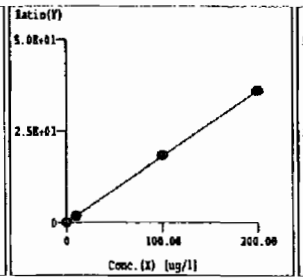
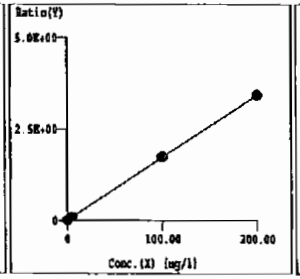
	(1) 66 Zn	(1) 72 Ge	(2) 72 Ge	(1) 75 As	(1) 78 Se	(2) 88 Sr
< r >	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000
< DL >	8.705E-02 ug/l	--- ug/l	--- ug/l	1.229E-01 ug/l	1.123E-01 ug/l	3.220E-03 ug/l
< BEC >	5.939E-01 ug/l	--- ug/l	--- ug/l	4.192E-01 ug/l	7.134E-01 ug/l	1.102E-02 ug/l

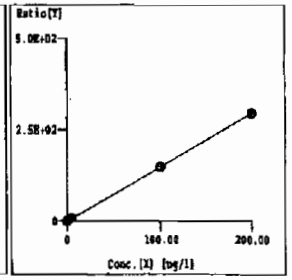




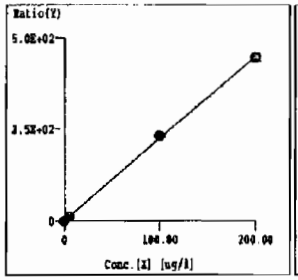


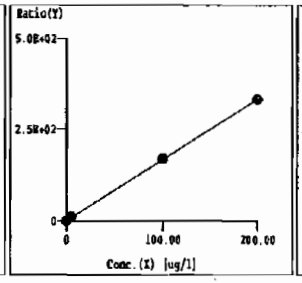


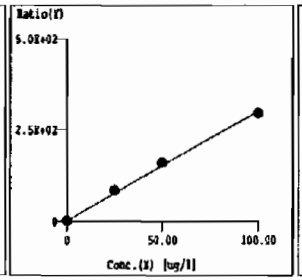


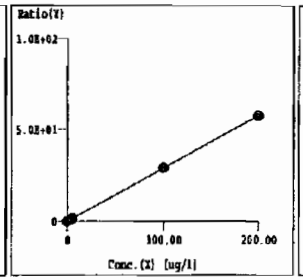


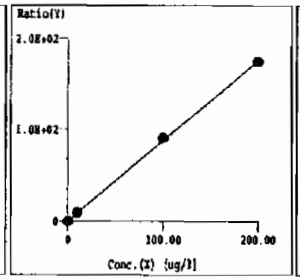
	(1) 89 Y	(1) 90 Zr	(1) 93 Nb	(2) 95 Mo	(1) 101 Ru	(1) 103 Rh
< r >	0.9998	0.9999	0.9990	1.0000	0.9998	0.9998
< DL >	3.008E-03 ug/l	5.478E-03 ug/l	3.449E-01 ug/l	2.837E-02 ug/l	1.001E-02 ug/l	3.348E-03 ug/l
< BEC >	6.631E-03 ug/l	9.646E-02 ug/l	6.491E-01 ug/l	1.084E-01 ug/l	1.055E-02 ug/l	8.648E-03 ug/l

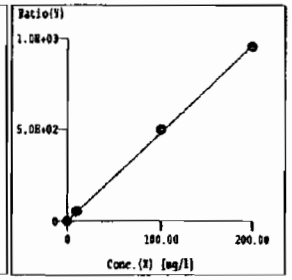












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=== Graph Summary ===
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	(1) 105 Pd	(2) 107 Ag	(2) 111 Cd	(2) 115 In	(2) 118 Sn	(2) 121 Sb
< r >	0.9999	1.0000	0.9999	0.0000	1.0000	1.0000
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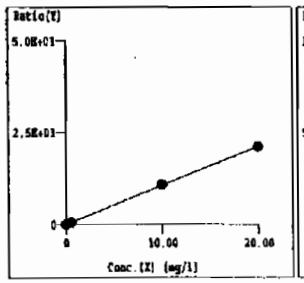
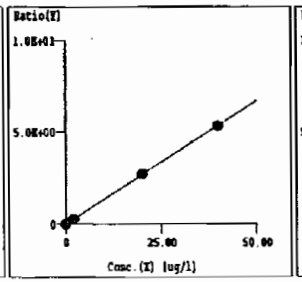
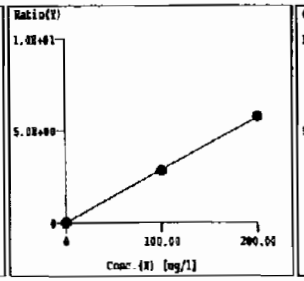
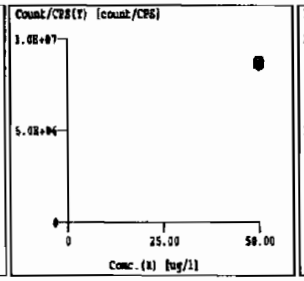
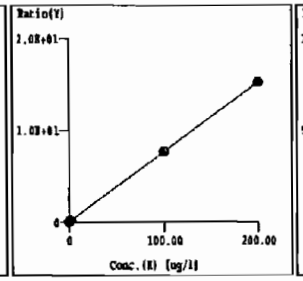
< BEC >	3.250E-03 ug/l	7.085E-03 ug/l	1.559E-02 ug/l	--- ug/l	4.832E-01 ug/l	1.893E-01 ug/l

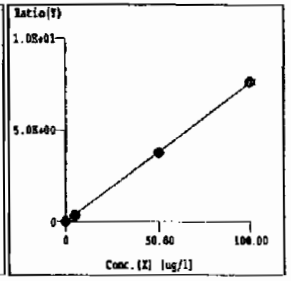




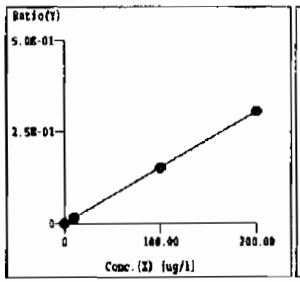


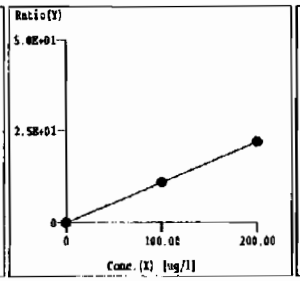


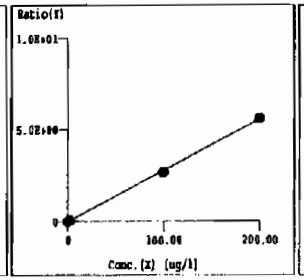


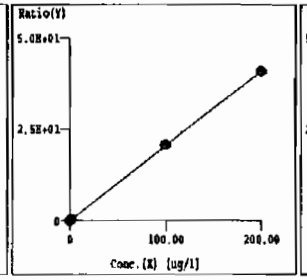


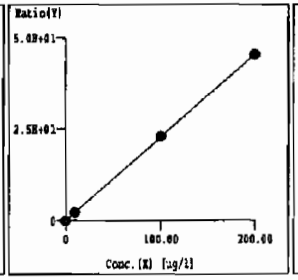
	(1) 125 Te	(1) 133 Cs	(2) 137 Ba	(1) 139 La	(1) 140 Ce	(1) 141 Pr
< r >	1.0000	1.0000	0.9997	1.0000	1.0000	1.0000
< DL >	1.092E-01 ug/l	9.043E-03 ug/l	5.696E-03 ug/l	3.097E-03 ug/l	3.749E-03 ug/l	1.001E-03 ug/l
< BEC >	5.826E-02 ug/l	1.931E-02 ug/l	1.325E-02 ug/l	5.471E-03 ug/l	5.900E-03 ug/l	5.097E-03 ug/l

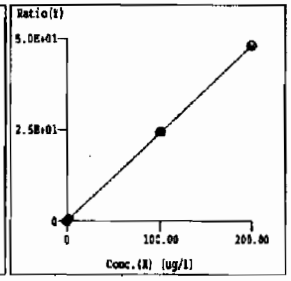












Calibration - C:\ICPCHEM\1\CALIB\2010.C

=== Graph Summary ===
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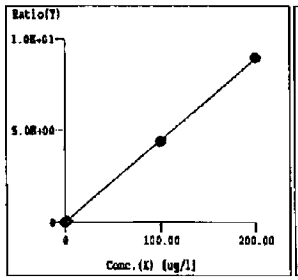
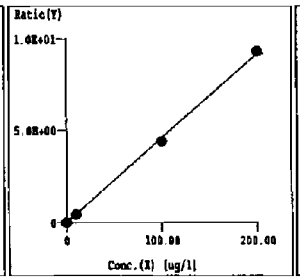
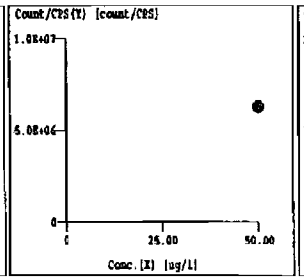
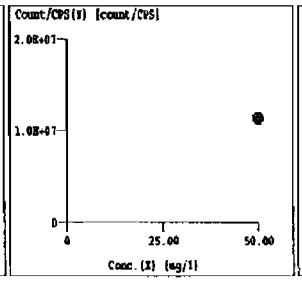
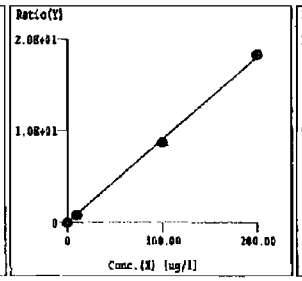
	(1) 146 Nd	(2) 147 Sm	(1) 165 Ho	(2) 165 Ho	(1) 178 Hf	(1) 181 Ta
< r >	0.9999	0.9996	0.0000	0.0000	0.9996	0.9995
< DL >	3.710E-03 ug/l	2.494E-03 ug/l	--- ug/l	--- ug/l	1.216E-02 ug/l	3.122E-01 ug/l
< BEC >	6.362E-03 ug/l	6.490E-03 ug/l	--- ug/l	--- ug/l	1.999E-01 ug/l	9.877E-01 ug/l

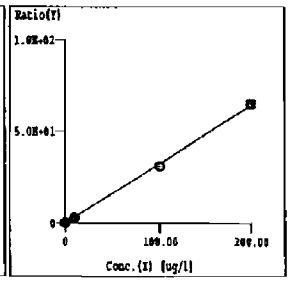












	(1) 182 W	(1) 195 Pt	(1) 197 Au	(2) 197 Au	(2) 205 Tl	(2) 206 (Pb)
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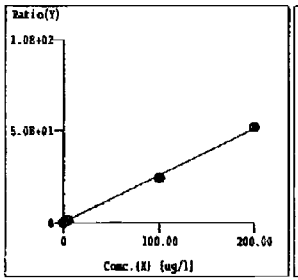
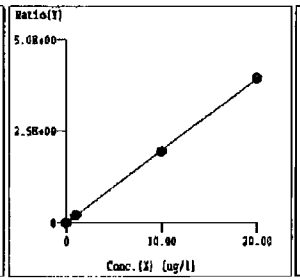
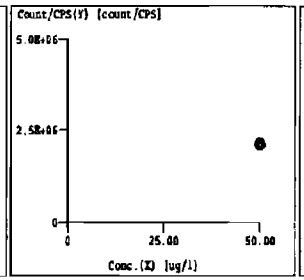
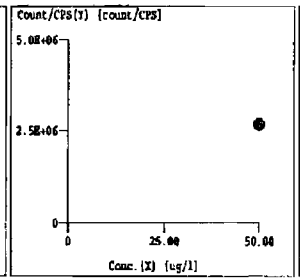
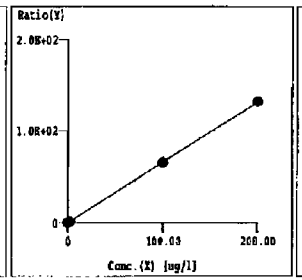
< DL >	2.676E-01 ug/l	2.746E-03 ug/l	--- ug/l	--- ug/l	6.339E-03 ug/l	2.545E-02 ug/l
< BEC >	5.732E-01 ug/l	3.526E-03 ug/l	--- ug/l	--- ug/l	1.511E-01 ug/l	7.409E-02 ug/l

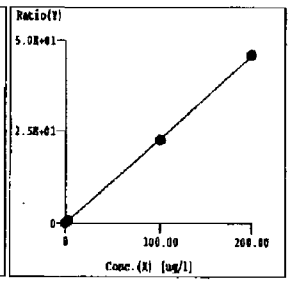












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=== Graph Summary ===
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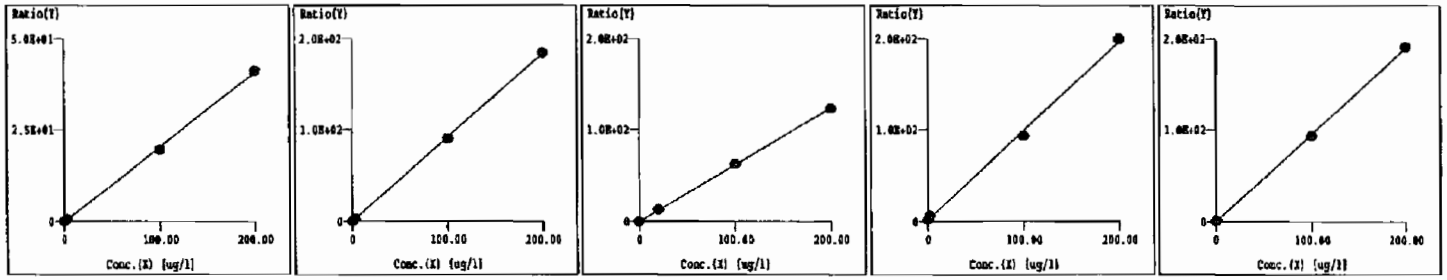
	(2) 207 (Pb)	(2) 208 Pb	(1) 209 Bi	(2) 232 Th	(2) 238 U
< r >	0.9996	0.9999	1.0000	0.9990	0.9999
< DL >	2.121E-02 ug/l	1.042E-02 ug/l	6.622E-03 ug/l	1.030E-01 ug/l	8.254E-03 ug/l
< BEC >	7.215E-02 ug/l	7.503E-02 ug/l	2.292E-02 ug/l	2.179 ug/l	2.710E-02 ug/l



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=== Graph Summary ===
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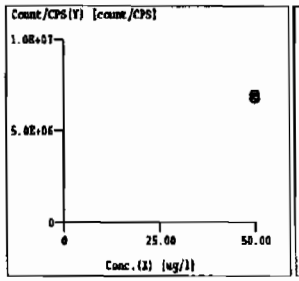
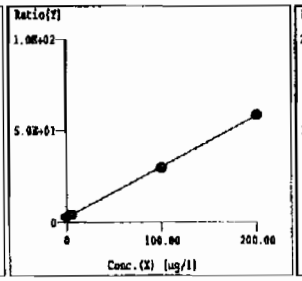
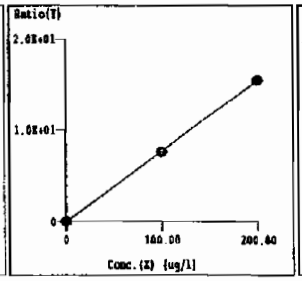
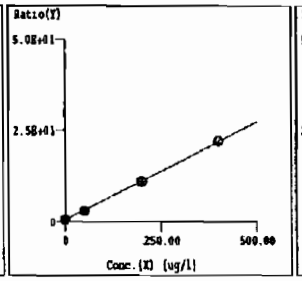
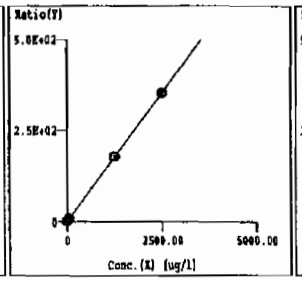
	(2) 6 Li	(2) 7 Li	(2) 9 Be	(2) 11 B	(1) 23 Na	(1) 24 Mg
< r >	0.0000	0.9999	1.0000	0.9999	1.0000	0.9999
< DL >	--- ug/l	8.998E-02 ug/l	5.636E-03 ug/l	9.947E-01 ug/l	1.126 ug/l	1.792E-01 ug/l
< BEC >	--- ug/l	10.14 ug/l	1.684E-02 ug/l	12.32 ug/l	20.05 ug/l	5.849E-01 ug/l

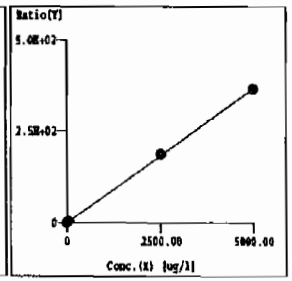












	(1) 27 Al	(2) 28 Si	(2) 29 Si	(1) 31 P	(1) 34 S	(2) 34 S
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< DL >	3.715 ug/l	8.243E-01 ug/l	3.191 ug/l	1.078 ug/l	62.18 ug/l	86.67 ug/l
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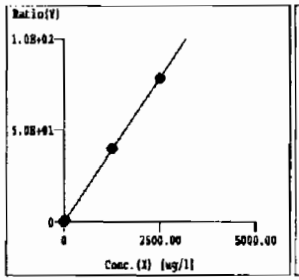

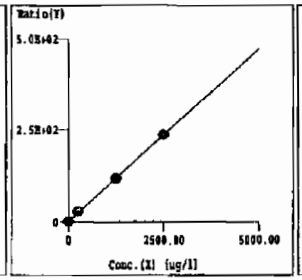

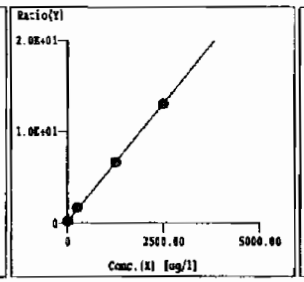

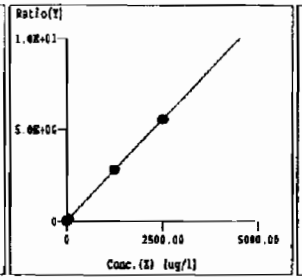

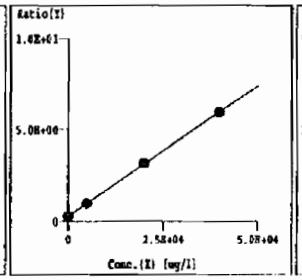

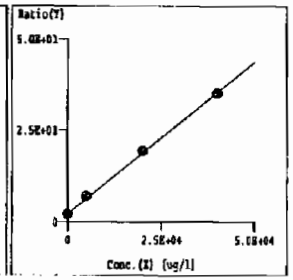

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=== Graph Summary ===
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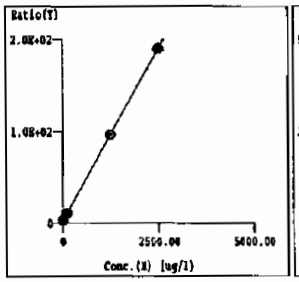
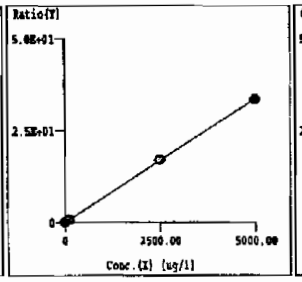
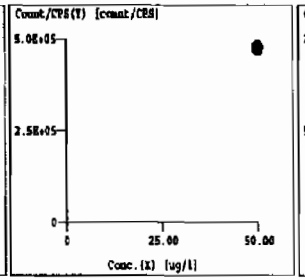
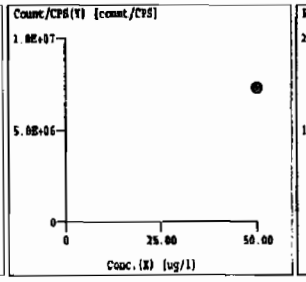
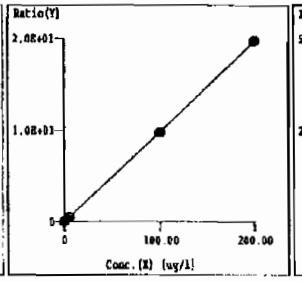
	(1) 39 K	(2) 44 Ca	(1) 45 Sc	(2) 45 Sc	(2) 47 Ti	(1) 51 V
< r >	1.0000	1.0000	0.0000	0.0000	1.0000	0.9998
< DL >	1.062 ug/l	4.553E-01 ug/l	--- ug/l	--- ug/l	3.762E-02 ug/l	3.784E-02 ug/l
< BEC >	45.85 ug/l	18.91 ug/l	--- ug/l	--- ug/l	4.327E-01 ug/l	4.640E-01 ug/l

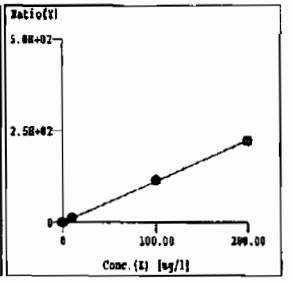




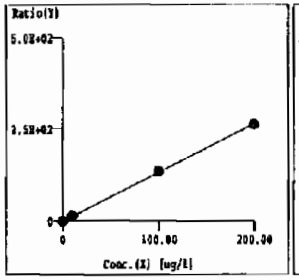


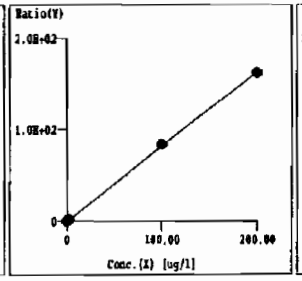


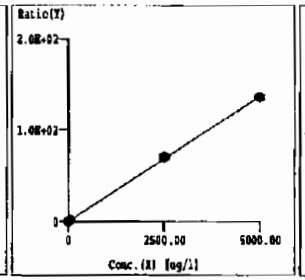


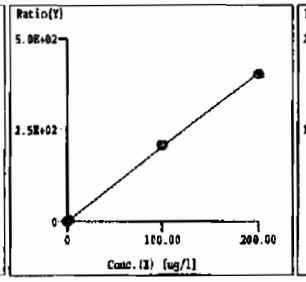


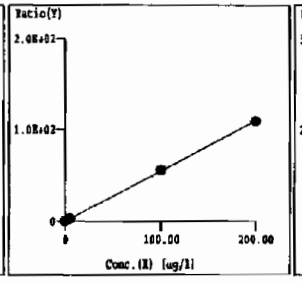
	(1) 52 Cr	(1) 55 Mn	(1) 57 Fe	(1) 59 Co	(1) 60 Ni	(1) 63 Cu
< r >	0.9999	0.9999	0.9999	0.9999	0.9999	0.9996
< DL >	1.955E-02 ug/l	1.788E-02 ug/l	2.426 ug/l	1.937E-03 ug/l	1.046E-02 ug/l	4.430E-02 ug/l
< BEC >	1.425E-01 ug/l	8.141E-02 ug/l	6.309 ug/l	1.298E-02 ug/l	4.765E-02 ug/l	4.143E-01 ug/l

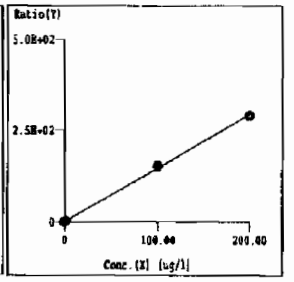












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=== Graph Summary ===
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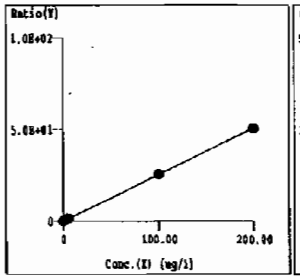
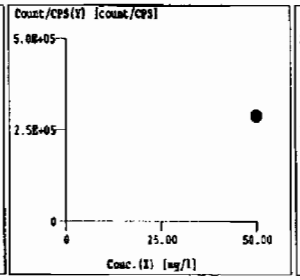
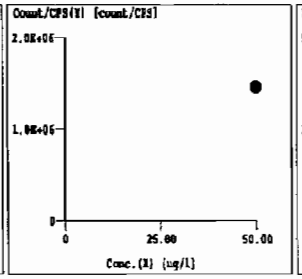
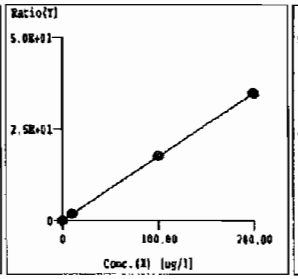
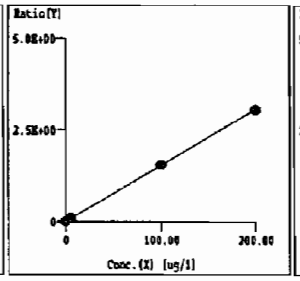
	(1) 66 Zn	(1) 72 Ge	(2) 72 Ge	(1) 75 As	(1) 78 Se	(2) 88 Sr
< r >	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000
< DL >	3.659E-02 ug/l	--- ug/l	--- ug/l	6.094E-02 ug/l	9.752E-02 ug/l	2.133E-03 ug/l
< BEC >	6.950E-01 ug/l	--- ug/l	--- ug/l	2.744E-01 ug/l	9.128E-01 ug/l	1.391E-02 ug/l

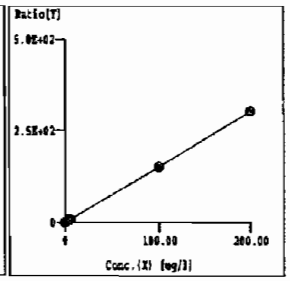




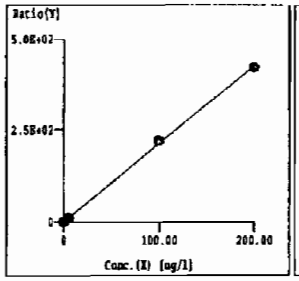


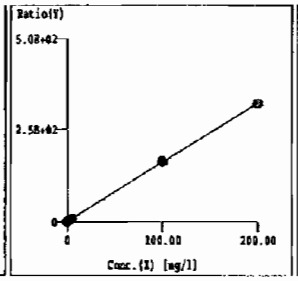


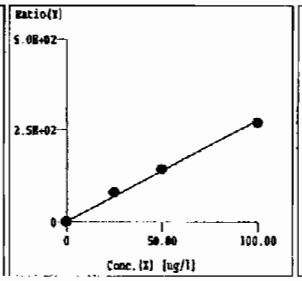


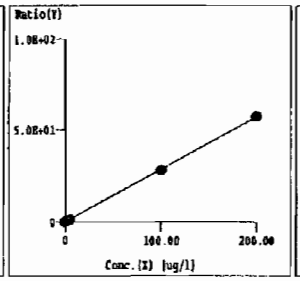


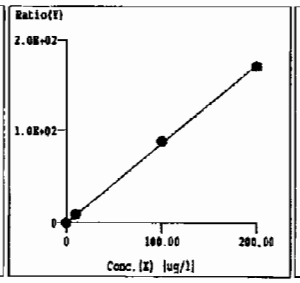
	(1) 89 Y	(1) 90 Zr	(1) 93 Nb	(2) 95 Mo	(1) 101 Ru	(1) 103 Rh
< r >	0.9998	1.0000	0.9985	0.9999	0.9999	0.9997
< DL >	1.745E-03 ug/l	4.366E-03 ug/l	3.023E-01 ug/l	8.184E-03 ug/l	2.033E-02 ug/l	1.805E-03 ug/l
< BEC >	9.928E-03 ug/l	7.278E-02 ug/l	5.903E-01 ug/l	1.073E-01 ug/l	1.545E-02 ug/l	1.117E-02 ug/l

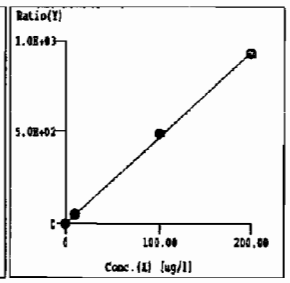












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=== Graph Summary ===
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	(1) 105 Pd	(2) 107 Ag	(2) 111 Cd	(2) 115 In	(2) 118 Sn	(2) 121 Sb
< r >	0.9998	1.0000	1.0000	0.0000	1.0000	1.0000
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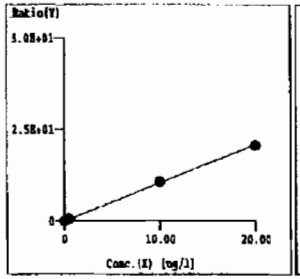
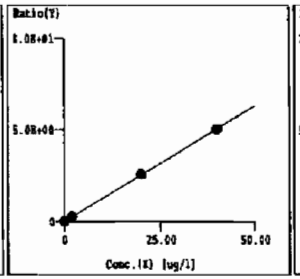
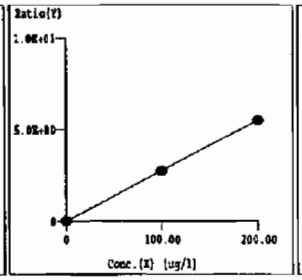
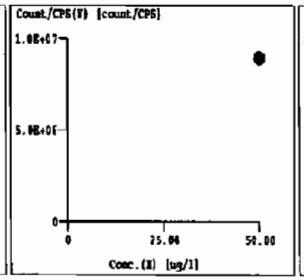
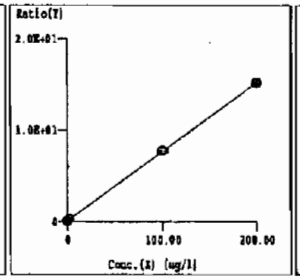
< BEC >	2.267E-03 ug/l	9.676E-03 ug/l	1.194E-02 ug/l	--- ug/l	1.246 ug/l	2.861E-01 ug/l

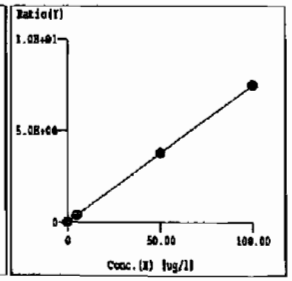




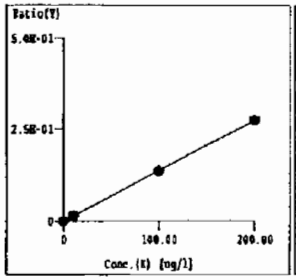


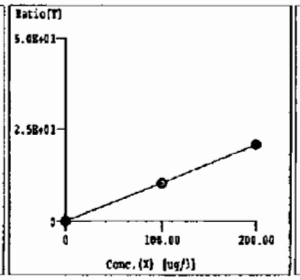


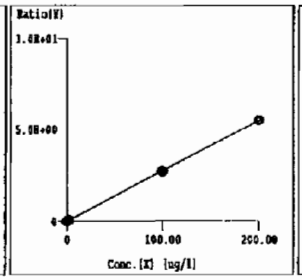


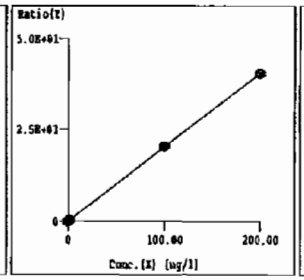


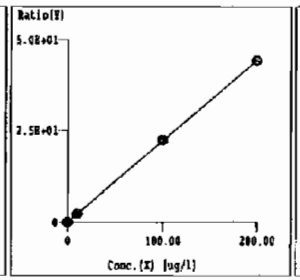
	(1) 125 Te	(1) 133 Cs	(2) 137 Ba	(1) 139 La	(1) 140 Ce	(1) 141 Pr
< r >	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
< DL >	6.549E-02 ug/l	1.123E-02 ug/l	3.895E-03 ug/l	4.627E-03 ug/l	1.745E-03 ug/l	1.065E-03 ug/l
< BEC >	4.965E-02 ug/l	2.306E-02 ug/l	2.622E-02 ug/l	7.785E-03 ug/l	8.494E-03 ug/l	6.596E-03 ug/l

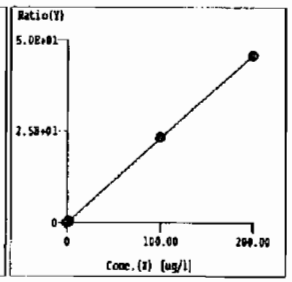












Calibration - C:\ICPCHEM\1\CALIB\2010.C

=== Graph Summary ===
Page: 5/6

	(1) 146 Nd	(2) 147 Sm	(1) 165 Ho	(2) 165 Ho	(1) 178 Hf	(1) 181 Ta
< r >	1.0000	1.0000	0.0000	0.0000	0.9996	0.9993
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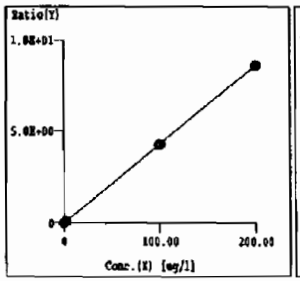
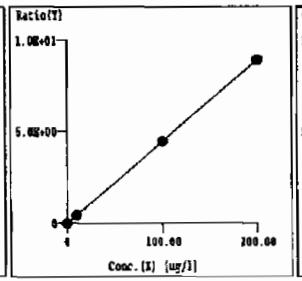
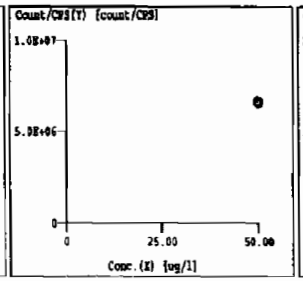
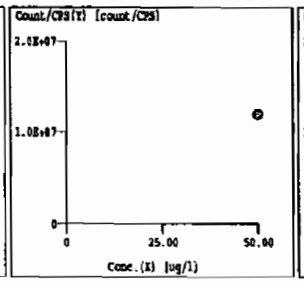
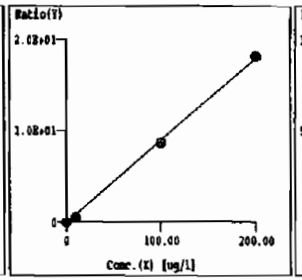
< BEC >	7.661E-03 ug/l	9.116E-03 ug/l	— ug/l	— ug/l	8.811E-02 ug/l	5.254E-01 ug/l

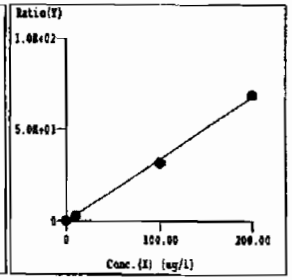




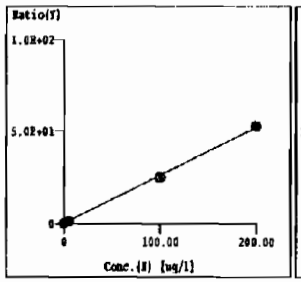


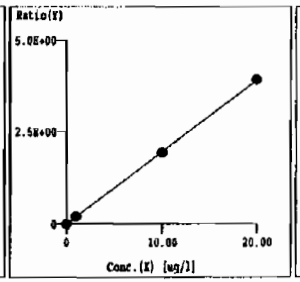


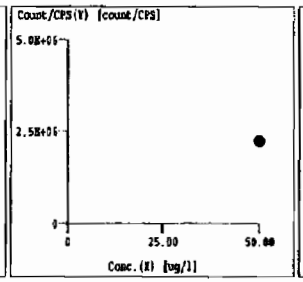


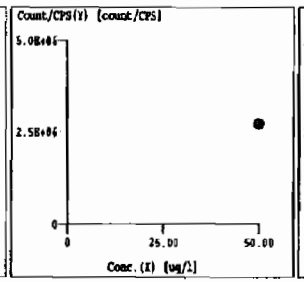


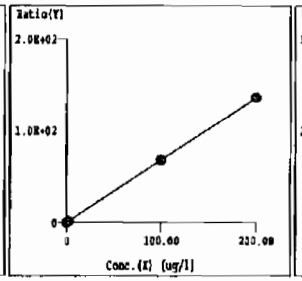
	(1) 182 W	(1) 195 Pt	(1) 197 Au	(2) 197 Au	(2) 205 Tl	(2) 206 (Pb)
< r >	0.9995	1.0000	0.0000	0.0000	1.0000	1.0000
< DL >	2.739E-01 ug/l	4.025E-03 ug/l	— ug/l	— ug/l	6.122E-03 ug/l	1.516E-02 ug/l
< BEC >	5.727E-01 ug/l	2.544E-03 ug/l	— ug/l	— ug/l	3.280E-01 ug/l	2.151E-01 ug/l

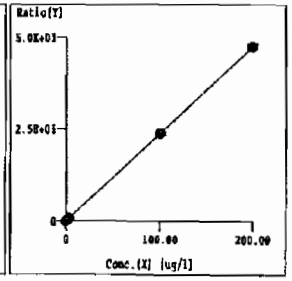








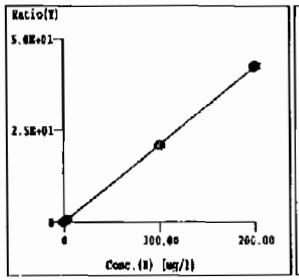


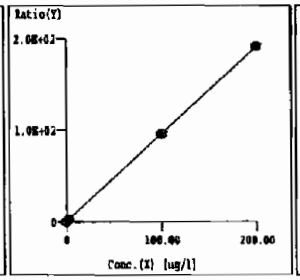


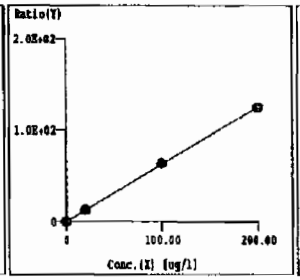
Calibration - C:\ICPCHEM\1\CALIB\2010.C

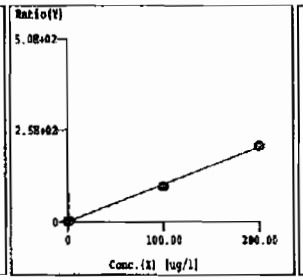
=== Graph Summary ===
Page: 6/6

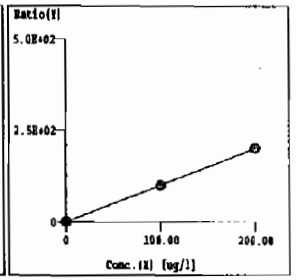
	(2) 207 (Pb)	(2) 208 Pb	(1) 209 Bi	(2) 232 Th	(2) 238 U
< r >	1.0000	1.0000	1.0000	0.9992	1.0000
< DL >	2.628E-02 ug/l	5.854E-03 ug/l	9.460E-03 ug/l	3.509E-02 ug/l	3.512E-03 ug/l
< BEC >	2.112E-01 ug/l	2.154E-01 ug/l	5.141E-02 ug/l	5.099E-01 ug/l	1.817E-02 ug/l





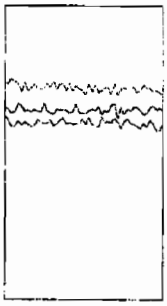






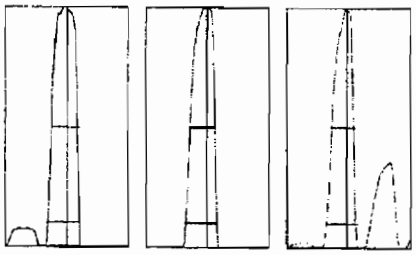
Tune Report

Tune File : nogas.u
Comment :



m/z	Range	Count	Mean	RSD%	Background
7	50,000	32069.0	32205.7	1.76	1.40
89	100,000	60193.0	59920.0	1.93	2.20
205	50,000	34988.0	35998.7	1.91	8.30

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec
n: 50
Oxide: 156/140 0.583%
Doubly Charged: 70/140 1.516%



m/z:	7	89	205
Height:	32,298	59,893	35,927
Axis:	7.05	89.05	205.00
W-50%:	0.70	0.65	0.60
W-10%:	0.800	0.800	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec
Y axis : Linear

===Plasma Condition===

RF Power	1600	W
RF Matching	1.8	V
Smpl Depth	7	mm
Torch-H	0.6	mm
Torch-V	0.3	mm
Carrier Gas	0.4	L/min
Makeup Gas	0.6	L/min
Optional Gas	---	%
Nebulizer Pump	0.1	rps
Sample Pump	---	rps
S/C Temp	2	degC

===Ion Lenses===

Extract 1	0	V
Extract 2	-115	V
Omega Bias-ce	-22	V
Omega Lens-ce	-1	V
Cell Entrance	-30	V
QP Focus	3	V
Cell Exit	-30	V

===Octopole Parameters===

OctP RF	170	V
OctP Bias	-6	V

===Q-Pole Parameters===

AMU Gain	127	
AMU Offset	125	
Axis Gain	0.9996	
Axis Offset	-0.02	
QP Bias	-3	V

===Detector Parameters===

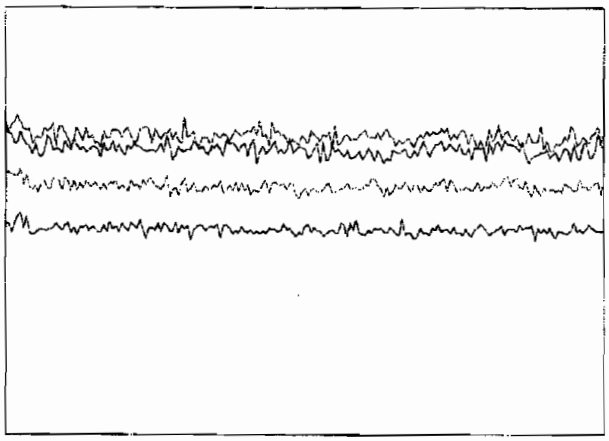
Discriminator	8	mV
Analog HV	1680	V
Pulse HV	1310	V

===Reaction Cell===

Reaction Mode	OFF	
H2 Gas	0	mL/min
He Gas	0	mL/min
Optional Gas	---	%

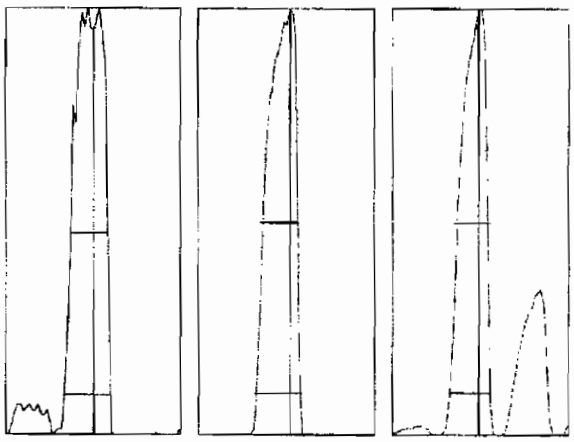
Tune Report

Tune File : He.U
Comment :



Integration Time:	0.1000 sec	
Sampling Period:	0.8200 sec	
n:	200	
Oxide:	156/140	0.364%
Doubly Charged:	70/140	1.646%

m/z	Range	Count	Mean	RSD%	Background
59	20,000	13327.0	13347.3	2.24	0.40
89	20,000	14227.0	13971.6	2.27	1.10
140	50,000	30217.0	29103.8	2.13	3.30
205	50,000	23843.0	24010.1	2.15	5.50
156/140	1	0.384%	0.360%	10.66	
70/140	2	1.655%	1.625%	5.65	
44	100	99.0	86.4	11.39	0.30
47	20	4.0	2.0	71.93	0.30



m/z:	7	89	205
Height:	334	14,684	24,411
Axis:	7.05	89.10	205.00
W-50%:	0.65	0.65	0.60
W-10%:	0.800	0.800	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : He.U
Comment :

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	127
RF Matching	:	1.8 V	Extract 2	:	-115 V	AMU Offset	:	125
Smpl Depth	:	7 mm	Omega Bias-ce	:	-22 V	Axis Gain	:	0.9996
Torch-H	:	0.6 mm	Omega Lens-ce	:	-1 V	Axis Offset	:	-0.02
Torch-V	:	0.3 mm	Cell Entrance	:	-30 V	QP Bias	:	-16 V
Carrier Gas	:	0.4 L/min	QP Focus	:	-11 V			
Makeup Gas	:	0.6 L/min	Cell Exit	:	-40 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1680 V
Sample Pump	:	--- rps	OctP RF	:	170 V	Pulse HV	:	1310 V
S/C Temp	:	2 degC	OctP Bias	:	-18 V			

===Reaction Cell===								
Reaction Mode	:	ON						
H2 Gas	:	0 mL/min	He Gas	:	4 mL/min	Optional Gas	:	--- %

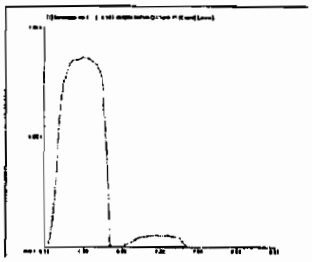
C:\ICPCHEM\1\DATA\041310A2.E\0016TUN.D

Data File:	0016TUN.D
Date Acquired:	Apr 13 2010 01:13 pm
Operator:	
Sample Name:	TUNE
Misc Info:	
Vial Number:	1307
Current Method:	TN_6020.M

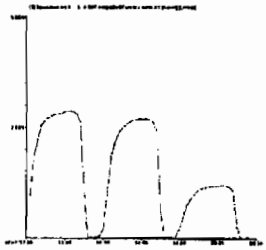
QC Tune Summary:
Pass

RSD%

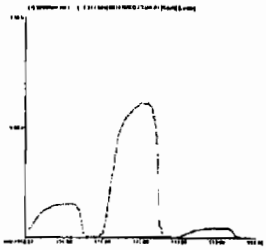
Element	Actual	Required	Flag
6	1.00	5.00	
59 Co	0.57	5.00	
115 In	0.45	5.00	
205 Tl	1.66	5.00	



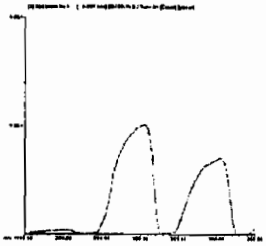
6 Li
Mass Calib.
Actual: 6.00
Required: 5.90 - 6.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.00
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

C:\ICPCHEM\1\DATA\041310A2.B\002BLNK.D\002BLNK.D#

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\002BLNK.D\002BLNK.D#
Date Acquired: Apr 13 2010 01:19 pm
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:04 pm
Sample Type: 6-Blank
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	6	2	-0.168	ug/l	63.20	1.00	
9 Be	6	2	0.026	ug/l	22.41	1.00	
11 B	6	2	4.428	ug/l	2.94	1.00	Fail
23 Na	45	1	-0.078	ug/l	426.73	1.00	
24 Mg	45	1	-0.113	ug/l	20.22	1.00	
27 Al	45	1	-0.251	ug/l	23.74	1.00	
28 Si	45	2	-0.587	ug/l	16.83	1.00	
29 Si	45	2	-1.288	ug/l	42.10	1.00	
31 P	45	1	0.097	ug/l	824.42	1.00	
34 S	45	1	-229.900	ug/l	16.79	1.00	
34 S	45	2	-211.200	ug/l	5.45	1.00	
39 K	45	1	0.730	ug/l	72.90	1.00	
44 Ca	45	2	-9.392	ug/l	3.61	1.00	
47 Ti	72	2	0.214	ug/l	3.87	1.00	
51 V	72	1	-0.027	ug/l	43.98	1.00	
52 Cr	72	1	0.006	ug/l	71.91	1.00	
55 Mn	72	1	0.009	ug/l	55.34	1.00	
57 Fe	72	1	0.983	ug/l	39.44	1.00	
59 Co	72	1	0.005	ug/l	66.40	1.00	
60 Ni	72	1	0.005	ug/l	177.02	1.00	
63 Cu	72	1	-0.197	ug/l	2.97	1.00	
66 Zn	72	1	0.004	ug/l	476.54	1.00	
75 As	72	1	0.294	ug/l	34.66	1.00	
78 Se	72	1	0.133	ug/l	13.89	1.00	
88 Sr	72	2	0.008	ug/l	19.81	1.00	
89 Y	72	1	0.001	ug/l	403.72	1.00	
90 Zr	72	1	0.105	ug/l	6.07	1.00	
93 Nb	72	1	0.504	ug/l	26.73	1.00	
95 Mo	72	2	0.134	ug/l	8.00	1.00	
101 Ru	72	1	0.002	ug/l	205.21	1.00	
103 Rh	72	1	0.000	ug/l	1264.40	1.00	
105 Pd	72	1	-0.001	ug/l	82.65	1.00	
107 Ag	115	2	0.001	ug/l	52.21	1.00	
111 Cd	115	2	0.036	ug/l	12.74	1.00	
118 Sn	115	2	0.351	ug/l	1.61	1.00	
121 Sb	165	2	0.085	ug/l	6.17	1.00	
125 Te	165	1	0.064	ug/l	72.79	1.00	
133 Cs	165	1	0.017	ug/l	83.86	1.00	
137 Ba	165	2	0.007	ug/l	46.39	1.00	
139 La	165	1	0.000	ug/l	277.11	1.00	
140 Ce	165	1	0.001	ug/l	260.98	1.00	
141 Pr	165	1	0.000	ug/l	1898.00	1.00	
146 Nd	165	1	-0.001	ug/l	146.58	1.00	
147 Sm	165	2	0.001	ug/l	74.03	1.00	
178 Hf	165	1	0.268	ug/l	4.87	1.00	
181 Ta	165	1	0.944	ug/l	14.13	1.00	
182 W	197	1	0.891	ug/l	20.36	1.00	
195 Pt	197	1	0.001	ug/l	201.03	1.00	
205 Tl	197	2	0.237	ug/l	5.27	1.00	
206 (Pb)	197	2	0.021	ug/l	4.13	1.00	
207 (Pb)	197	2	0.022	ug/l	14.01	1.00	
208 Pb	197	2	0.019	ug/l	7.20	1.00	
209 Bi	197	1	0.006	ug/l	65.01	1.00	
232 Th	197	2	1.956	ug/l	3.68	1.00	Fail
238 U	197	2	0.040	ug/l	1.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2	6073304	1.06	---	#VALUE!	70 - 140	
45 Sc	1	512733	0.80	---	#VALUE!	70 - 140	
45 Sc	2	6966239	0.84	---	#VALUE!	70 - 140	
72 Ge	1	275532	0.57	---	#VALUE!	70 - 140	
72 Ge	2	1429762	0.70	---	#VALUE!	70 - 140	
115 In	2	8707550	0.91	---	#VALUE!	70 - 140	
165 Ho	1	6289311	0.51	---	#VALUE!	70 - 140	
165 Ho	2	11455574	1.20	---	#VALUE!	70 - 140	
197 Au	1	2091983	0.55	---	#VALUE!	70 - 140	
197 Au	2	2679754	0.72	---	#VALUE!	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : ---

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#
Date Acquired: Apr 13 2010 01:26 pm
Acq. Method: 2010.M
Operator:
Sample Name: CAL BLK
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:31 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	351094	0.82
9	Be	6	2	164	20.80
11	B	6	2	35485	1.91
23	Na	45	1	22557	1.55
24	Mg	45	1	250	2.67
27	Al	45	1	194	5.44
28	Si	45	2	133927	0.62
29	Si	45	2	29053	0.64
31	P	45	1	162	10.51
34	S	45	1	2282	7.07
34	S	45	2	244788	0.24
39	K	45	1	32668	0.20
44	Ca	45	2	33441	3.86
47	Ti	72	2	845	4.12
51	V	72	1	5556	0.39
52	Cr	72	1	1367	3.99
55	Mn	72	1	239	4.65
57	Fe	72	1	391	11.68
59	Co	72	1	121	17.95
60	Ni	72	1	146	5.76
63	Cu	72	1	2794	1.53
66	Zn	72	1	887	5.68
75	As	72	1	417	8.40
78	Se	72	1	67	4.29
88	Sr	72	2	466	9.54
89	Y	72	1	82	16.38
90	Zr	72	1	883	0.65
93	Nb	72	1	10667	16.41
95	Mo	72	2	896	9.23
101	Ru	72	1	51	32.17
103	Rh	72	1	229	12.21
105	Pd	72	1	19	20.38
107	Ag	115	2	162	17.11
111	Cd	115	2	77	23.01
118	Sn	115	2	6286	2.50
121	Sb	165	2	3243	2.11
125	Te	165	1	11	62.45
133	Cs	165	1	264	15.66
137	Ba	165	2	83	14.42
139	La	165	1	140	18.90
140	Ce	165	1	158	21.24
141	Pr	165	1	153	6.52
146	Nd	165	1	36	19.52
147	Sm	165	2	68	12.38
178	Hf	165	1	2260	1.96
181	Ta	165	1	39616	10.47
182	W	197	1	6103	16.73
195	Pt	197	1	29	26.65
205	Tl	197	2	5213	1.98
206	(Pb)	197	2	891	10.69
207	(Pb)	197	2	772	10.05
208	Pb	197	2	3621	4.02
209	Bi	197	1	591	8.85
232	Th	197	2	111428	0.71
238	U	197	2	1356	9.59

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	2	5986087	1.11
45	Sc	1	509565	0.37
45	Sc	2	6903232	0.40
72	Ge	1	275046	1.42
72	Ge	2	1427904	1.19
115	In	2	8556655	0.34
165	Ho	1	6247878	0.07
165	Ho	2	11326620	0.54
197	Au	1	2087035	1.25
197	Au	2	2625939	0.88

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

C:\ICPCHEM\1\DATA\041310A2.B\004CALS.D\004CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\004CALS.D\004CALS.D#
Date Acquired: Apr 13 2010 01:34 pm
Acq. Method: 2010.M
Operator:
Sample Name: CAL 1
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:31 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	527001	1.57
9	Be	6	2	5192	1.26
11	B	6	2	363453	0.79
23	Na	45	1	102158	1.61
24	Mg	45	1	40869	1.38
27	Al	45	1	10949	1.74
28	Si	45	2	4069935	1.64
29	Si	45	2	237762	0.16
31	P	45	1	1320	1.89
34	S	45	1	9746	2.51
34	S	45	2	886715	1.19
39	K	45	1	112986	1.12
44	Ca	45	2	137596	0.21
47	Ti	72	2	15337	0.18
51	V	72	1	73896	0.72
52	Cr	72	1	85609	1.65
55	Mn	72	1	12590	1.04
57	Fe	72	1	9361	0.47
59	Co	72	1	25664	1.25
60	Ni	72	1	17440	2.15
63	Cu	72	1	10482	0.65
66	Zn	72	1	9128	0.74
75	As	72	1	10586	0.93
78	Se	72	1	557	0.25
88	Sr	72	2	231102	0.31
89	Y	72	1	65321	1.65
90	Zr	72	1	65796	2.08
93	Nb	72	1	473856	0.61
95	Mo	72	2	42273	0.75
101	Ru	72	1	51121	1.47
103	Rh	72	1	294555	0.89
105	Pd	72	1	3116	5.10
107	Ag	115	2	48371	0.39
111	Cd	115	2	2678	4.14
118	Sn	115	2	31374	2.06
121	Sb	165	2	80180	0.79
125	Te	165	1	1944	3.26
133	Cs	165	1	1606	3.84
137	Ba	165	2	12756	1.05
139	La	165	1	52451	1.18
140	Ce	165	1	290586	1.26
141	Pr	165	1	61203	0.53
146	Nd	165	1	11291	2.37
147	Sm	165	2	101414	0.89
178	Hf	165	1	105271	2.08
181	Ta	165	1	405487	2.59
182	W	197	1	53018	0.83
195	Pt	197	1	8541	1.65
205	Tl	197	2	70415	0.44
206	(Pb)	197	2	37005	0.94
207	(Pb)	197	2	32887	1.27
208	Pb	197	2	149580	0.71
209	Bi	197	1	546085	0.66
232	Th	197	2	353838	1.49
238	U	197	2	52623	1.48

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	5990416	0.38	5986087	100.1	70 - 140	
45	Sc	1	508590	0.10	509565	99.8	70 - 140	
45	Sc	2	6946996	0.76	6903232	100.6	70 - 140	
72	Ge	1	279133	1.10	275046	101.5	70 - 140	
72	Ge	2	1460662	0.32	1427904	102.3	70 - 140	
115	In	2	8680083	0.52	8556655	101.4	70 - 140	
165	Ho	1	6301314	1.26	6247878	100.9	70 - 140	
165	Ho	2	11227794	0.85	11326620	99.1	70 - 140	
197	Au	1	2086725	0.83	2087035	100.0	70 - 140	
197	Au	2	2651065	0.44	2625939	101.0	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\005CALS.D\005CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\005CALS.D\005CALS.D#
Date Acquired: Apr 13 2010 01:41 pm
Acq. Method: 2010.M
Operator:
Sample Name: CAL 2
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:39 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	3785285	0.80
9	Be	6	2	1028072	0.55
11	B	6	2	1430109	0.75
23	Na	45	1	1806348	1.33
24	Mg	45	1	1924236	0.16
27	Al	45	1	435479	1.13
28	Si	45	2	16726180	1.57
29	Si	45	2	947445	1.23
31	P	45	1	30577	1.17
34	S	45	1	33572	1.25
34	S	45	2	2654196	1.02
39	K	45	1	1003609	0.66
44	Ca	45	2	2419313	1.00
47	Ti	72	2	287434	0.54
51	V	72	1	677573	0.91
52	Cr	72	1	813409	1.19
55	Mn	72	1	518626	0.74
57	Fe	72	1	435517	0.57
59	Co	72	1	1222034	1.09
60	Ni	72	1	330893	0.94
63	Cu	72	1	896368	0.96
66	Zn	72	1	153747	0.92
75	As	72	1	103332	0.45
78	Se	72	1	9754	1.16
88	Sr	72	2	4335141	0.79
89	Y	72	1	1299838	1.21
90	Zr	72	1	948016	2.71
93	Nb	72	1	891898	1.68
95	Mo	72	2	851039	0.83
101	Ru	72	1	508621	0.85
103	Rh	72	1	2796022	0.77
105	Pd	72	1	60775	1.66
107	Ag	115	2	466947	0.97
111	Cd	115	2	487401	0.70
118	Sn	115	2	1323136	0.95
121	Sb	165	2	831057	0.16
125	Te	165	1	18844	2.45
133	Cs	165	1	1373315	0.92
137	Ba	165	2	608014	1.11
139	La	165	1	2581593	0.60
140	Ce	165	1	2853572	0.93
141	Pr	165	1	3011785	1.27
146	Nd	165	1	548517	1.16
147	Sm	165	2	1001026	0.21
178	Hf	165	1	1082903	2.88
181	Ta	165	1	3849112	3.31
182	W	197	1	1009447	1.68
195	Pt	197	1	80762	0.97
205	Tl	197	2	3471847	0.06
206	(Pb)	197	2	1203252	0.19
207	(Pb)	197	2	1043198	0.17
208	Pb	197	2	4820978	0.38
209	Bi	197	1	2619225	1.84
232	Th	197	2	4986875	0.88
238	U	197	2	4986184	0.78

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	5986487	0.72	5986087	100.0	70 - 140	
45	Sc	1	505836	0.36	509565	99.3	70 - 140	
45	Sc	2	7031304	1.04	6903232	101.9	70 - 140	
72	Ge	1	280648	0.92	275046	102.0	70 - 140	
72	Ge	2	1464314	0.63	1427904	102.5	70 - 140	
115	In	2	8653546	0.90	8556655	101.1	70 - 140	
165	Ho	1	6233846	0.24	6247878	99.8	70 - 140	
165	Ho	2	11372946	0.60	11326620	100.4	70 - 140	
197	Au	1	2092338	1.52	2087035	100.3	70 - 140	
197	Au	2	2670148	0.53	2625935	101.7	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\006CALS.D\006CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\006CALS.D\006CALS.D#
Date Acquired: Apr 13 2010 01:48 pm
Acq. Method: 2010.M
Operator:
Sample Name: CAL 3
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:46 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	7656120	0.60
9	Be	6	2	2139076	0.96
11	B	6	2	2959009	1.52
23	Na	45	1	3617602	0.74
24	Mg	45	1	3855407	0.39
27	Al	45	1	888338	1.33
28	Si	45	2	34299680	0.61
29	Si	45	2	1920970	0.41
31	P	45	1	62583	0.69
34	S	45	1	66559	1.40
34	S	45	2	5124812	0.17
39	K	45	1	1964533	1.47
44	Ca	45	2	4914966	0.64
47	Ti	72	2	596194	0.15
51	V	72	1	1346262	2.14
52	Cr	72	1	1648304	3.11
55	Mn	72	1	1066707	1.85
57	Fe	72	1	889410	0.49
59	Co	72	1	2487923	1.54
60	Ni	72	1	687106	1.52
63	Cu	72	1	1830255	1.01
66	Zn	72	1	319121	1.27
75	As	72	1	211910	1.65
78	Se	72	1	20169	1.12
88	Sr	72	2	8894300	0.85
89	Y	72	1	2620211	1.97
90	Zr	72	1	1946416	0.62
93	Nb	72	1	1732033	0.83
95	Mo	72	2	1739032	0.71
101	Ru	72	1	1023913	0.28
103	Rh	72	1	5596292	0.63
105	Pd	72	1	123479	0.83
107	Ag	115	2	941691	0.54
111	Cd	115	2	1018466	0.09
118	Sn	115	2	2687339	0.36
121	Sb	165	2	1752148	1.80
125	Te	165	1	39042	1.38
133	Cs	165	1	2791001	2.38
137	Ba	165	2	1290762	2.31
139	La	165	1	5207230	1.07
140	Ce	165	1	5793609	1.18
141	Pr	165	1	6134231	0.25
146	Nd	165	1	1145114	0.12
147	Sm	165	2	2149321	1.48
178	Hf	165	1	2334539	1.02
181	Ta	165	1	8324371	2.92
182	W	197	1	2231284	1.24
195	Pt	197	1	169387	1.02
205	Tl	197	2	7153026	0.99
206	(Pb)	197	2	2497348	0.92
207	(Pb)	197	2	2234227	1.53
208	Pb	197	2	10021480	0.95
209	Bi	197	1	5302075	0.34
232	Th	197	2	10839030	1.00
238	U	197	2	10388360	1.13

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	6243568	0.65	5986087	104.3	70 - 140	
45	Sc	1	513854	0.62	509565	100.8	70 - 140	
45	Sc	2	7234426	0.73	6903232	104.8	70 - 140	
72	Ge	1	293157	1.07	275046	106.6	70 - 140	
72	Ge	2	1503614	0.20	1427904	105.3	70 - 140	
115	In	2	8817132	0.15	8556655	103.0	70 - 140	
165	Ho	1	6374984	1.47	6247878	102.0	70 - 140	
165	Ho	2	11519405	1.86	11326620	101.7	70 - 140	
197	Au	1	2152043	0.75	2087035	103.1	70 - 140	
197	Au	2	2711722	0.47	2625939	103.3	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\007_ICV.D\007_ICV.D#

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\007_ICV.D\007_ICV.D#
Date Acquired: Apr 13 2010 01:55 pm
Operator:
Sample Name: ICV
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	99.13	ug/l	0.26	100	99.1	90 - 110	Li	
9	Be	6	2	96.66	ug/l	0.24	100	96.7	90 - 110	Be	
11	B	6	2	212.60	ug/l	0.76	200	106.3	90 - 110	B	
23	Na	45	1	420.50	ug/l	0.87	400	105.1	90 - 110	Na	
24	Mg	45	1	421.20	ug/l	0.94	400	105.3	90 - 110	Mg	
27	Al	45	1	411.40	ug/l	0.33	400	102.9	90 - 110	Al	
28	Si	45	2	470.60	ug/l	0.65	400	117.7	90 - 110	Si	Fail
29	Si	45	2	449.60	ug/l	1.70	400	112.4	90 - 110	Si	Fail
31	P	45	1	408.00	ug/l	1.31	400	102.0	90 - 110	P	
34	S	45	1	4153.00	ug/l	2.00	4000	103.8	90 - 110	S	
34	S	45	2	3654.00	ug/l	0.59	4000	91.4	90 - 110	S	
39	K	45	1	417.00	ug/l	1.13	400	104.3	90 - 110	K	
44	Ca	45	2	415.90	ug/l	1.05	400	104.0	90 - 110	Ca	
47	Ti	72	2	99.52	ug/l	1.02	100	99.5	90 - 110	Ti	
51	V	72	1	103.80	ug/l	0.13	100	103.8	90 - 110	V	
52	Cr	72	1	104.70	ug/l	0.64	100	104.7	90 - 110	Cr	
55	Mn	72	1	101.60	ug/l	1.63	100	101.6	90 - 110	Mn	
57	Fe	72	1	420.90	ug/l	0.21	400	105.2	90 - 110	Fe	
59	Co	72	1	105.80	ug/l	0.64	100	105.8	90 - 110	Co	
60	Ni	72	1	101.40	ug/l	0.39	100	101.4	90 - 110	Ni	
63	Cu	72	1	104.20	ug/l	0.45	100	104.2	90 - 110	Cu	
66	Zn	72	1	104.30	ug/l	0.86	100	104.3	90 - 110	Zn	
75	As	72	1	100.00	ug/l	0.96	100	100.0	90 - 110	As	
78	Se	72	1	102.90	ug/l	0.79	100	102.9	90 - 110	Se	
88	Sr	72	2	103.40	ug/l	0.24	100	103.4	90 - 110	Sr	
89	Y	72	1	103.50	ug/l	0.55	100	103.5	90 - 110	Y	
90	Zr	72	1	95.72	ug/l	0.18	100	95.7	90 - 110	Zr	
93	Nb	72	1	23.97	ug/l	0.24	20	119.9	90 - 110	Nb	Fail
95	Mo	72	2	98.49	ug/l	1.14	100	98.5	90 - 110	Mo	
101	Ru	72	1	103.30	ug/l	0.48	100	103.3	90 - 110	Ru	
103	Rh	72	1	103.20	ug/l	1.34	100	103.2	90 - 110	Rh	
105	Pd	72	1	10.33	ug/l	1.07	10	103.3	90 - 110	Pd	
107	Ag	115	2	19.88	ug/l	3.00	20	99.4	90 - 110	Ag	
111	Cd	115	2	97.61	ug/l	0.51	100	97.6	90 - 110	Cd	
118	Sn	115	2	98.05	ug/l	0.16	100	98.1	90 - 110	Sn	
121	Sb	165	2	48.45	ug/l	1.35	50	96.9	90 - 110	Sb	
125	Te	165	1	94.28	ug/l	0.38	100	94.3	90 - 110	Te	
133	Cs	165	1	97.41	ug/l	0.49	100	97.4	90 - 110	Cs	
137	Ba	165	2	95.57	ug/l	0.34	100	95.6	90 - 110	Ba	
139	La	165	1	97.64	ug/l	0.53	100	97.6	90 - 110	La	
140	Ce	165	1	96.57	ug/l	0.74	100	96.6	90 - 110	Ce	
141	Pr	165	1	98.29	ug/l	0.85	100	98.3	90 - 110	Pr	
146	Nd	165	1	97.17	ug/l	0.79	100	97.2	90 - 110	Nd	
147	Sm	165	2	96.86	ug/l	0.53	100	96.9	90 - 110	Sm	
178	Hf	165	1	90.84	ug/l	1.00	100	90.8	90 - 110	Hf	
181	Ta	165	1	82.14	ug/l	6.56	100	82.1	90 - 110	Ta	Fail
182	W	197	1	93.04	ug/l	0.65	100	93.0	90 - 110	W	
195	Pt	197	1	9.80	ug/l	1.15	10	98.0	90 - 110	Pt	
205	Tl	197	2	104.50	ug/l	0.90	100	104.5	90 - 110	Tl	
206	(Pb)	197	2	102.70	ug/l	0.73	100	102.7	90 - 110	(Pb)	
207	(Pb)	197	2	95.56	ug/l	1.49	100	95.6	90 - 110	(Pb)	
208	Pb	197	2	100.30	ug/l	1.15	100	100.3	90 - 110	Pb	
209	Bi	197	1	101.30	ug/l	0.68	100	101.3	90 - 110	Bi	
232	Th	197	2	92.24	ug/l	2.09	100	92.2	90 - 110	Th	
238	U	197	2	99.92	ug/l	1.60	100	99.9	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6295438	0.33	5986087	105.2	70 - 140	Li	
45	Sc	1	505329	0.57	509565	99.2	70 - 140	Sc	
45	Sc	2	7152888	0.64	6903232	103.6	70 - 140	Sc	
72	Ge	1	283574	0.32	275046	103.1	70 - 140	Ge	
72	Ge	2	1476901	1.03	1427904	103.4	70 - 140	Ge	
115	In	2	8940875	1.16	8556655	104.5	70 - 140	In	
165	Ho	1	6515534	1.53	6247878	104.3	70 - 140	Ho	
165	Ho	2	11731983	0.34	11326620	103.6	70 - 140	Ho	
197	Au	1	2211515	0.47	2087035	106.0	70 - 140	Au	
197	Au	2	2750912	0.65	2625939	104.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

4 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\008_CCB.D\008_CCB.D$

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\008_CCB.D\008_CCB.D$
Date Acquired: Apr 13 2010 02:02 pm
Operator:
Sample Name: ICB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.008	ug/l	1447.60	1.35	Li	
9 Be	6	2	0.006	ug/l	58.90	0.23	Be	
11 B	6	2	4.679	ug/l	5.47	14.94	B	
23 Na	45	1	0.486	ug/l	15.76	10.60	Na	
24 Mg	45	1	0.135	ug/l	39.31	3.46	Mg	
27 Al	45	1	0.034	ug/l	181.74	8.94	Al	
28 Si	45	2	0.270	ug/l	44.50	35.60	Si	
29 Si	45	2	0.316	ug/l	184.81	35.60	Si	
31 P	45	1	0.751	ug/l	77.30	16.46	P	
34 S	45	1	-126.700	ug/l	82.40	666.00	S	
34 S	45	2	-149.600	ug/l	22.05	666.00	S	
39 K	45	1	0.380	ug/l	70.43	16.66	K	
44 Ca	45	2	-1.444	ug/l	56.15	97.40	Ca	
47 Ti	72	2	0.354	ug/l	6.00	1.15	Ti	
51 V	72	1	0.024	ug/l	61.57	4.74	V	
52 Cr	72	1	0.007	ug/l	73.50	6.52	Cr	
55 Mn	72	1	0.005	ug/l	89.41	0.47	Mn	
57 Fe	72	1	2.287	ug/l	34.20	40.70	Fe	
59 Co	72	1	0.006	ug/l	68.02	0.43	Co	
60 Ni	72	1	0.008	ug/l	116.05	0.46	Ni	
63 Cu	72	1	0.010	ug/l	84.18	0.19	Cu	
66 Zn	72	1	0.020	ug/l	134.77	7.48	Zn	
75 As	72	1	0.000	ug/l	18104.00	1.89	As	
78 Se	72	1	0.117	ug/l	32.74	0.62	Se	
88 Sr	72	2	0.011	ug/l	1.15	0.23	Sr	
89 Y	72	1	0.006	ug/l	90.34	0.42	Y	
90 Zr	72	1	0.139	ug/l	7.11	0.50	Zr	
93 Nb	72	1	0.423	ug/l	44.49	4.46	Nb	
95 Mo	72	2	0.309	ug/l	7.13	0.43	Mo	
101 Ru	72	1	0.005	ug/l	128.72	2.00	Ru	
103 Rh	72	1	0.008	ug/l	52.72	1.63	Rh	
105 Pd	72	1	-0.001	ug/l	95.67	0.08	Pd	
107 Ag	115	2	0.002	ug/l	80.91	0.08	Ag	
111 Cd	115	2	0.014	ug/l	30.29	0.11	Cd	
118 Sn	115	2	0.617	ug/l	6.13	0.30	Sn	FAIL
121 Sb	165	2	0.104	ug/l	12.13	2.24	Sb	
125 Te	165	1	0.232	ug/l	29.06	1.07	Te	
133 Cs	165	1	0.035	ug/l	34.87	0.11	Cs	
137 Ba	165	2	0.013	ug/l	13.33	0.39	Ba	
139 La	165	1	0.006	ug/l	72.88	0.10	La	
140 Ce	165	1	0.006	ug/l	66.48	1.77	Ce	
141 Pr	165	1	0.006	ug/l	77.60	0.08	Pr	
146 Nd	165	1	0.008	ug/l	91.78	0.21	Nd	
147 Sm	165	2	0.010	ug/l	11.71	0.65	Sm	
178 Hf	165	1	0.333	ug/l	5.85	2.26	Hf	
181 Ta	165	1	1.112	ug/l	20.99	1.46	Ta	
182 W	197	1	2.082	ug/l	17.27	1.68	W	FAIL
195 Pt	197	1	0.000	ug/l	200.12	0.12	Pt	
205 Tl	197	2	0.297	ug/l	5.48	1.10	Tl	
206 (Pb)	197	2	0.012	ug/l	26.57	2.00	(Pb)	
207 (Pb)	197	2	0.018	ug/l	43.64	2.00	(Pb)	
208 Pb	197	2	0.015	ug/l	23.97	0.35	Pb	
209 Bi	197	1	0.006	ug/l	60.56	1.46	Bi	
232 Th	197	2	1.482	ug/l	3.94	1.10	Th	FAIL
238 U	197	2	0.060	ug/l	7.20	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6301549	0.56	5986087	105.3	70 - 140	Li	
45 Sc	1	515781	0.54	509565	101.2	70 - 140	Sc	
45 Sc	2	7076047	1.14	6903232	102.5	70 - 140	Sc	
72 Ge	1	281253	0.86	275046	102.3	70 - 140	Ge	
72 Ge	2	1455833	0.16	1427904	102.0	70 - 140	Ge	
115 In	2	8813999	1.28	8556655	103.0	70 - 140	In	
165 Ho	1	6526613	0.28	6247878	104.5	70 - 140	Ho	
165 Ho	2	11611624	2.47	11326620	102.5	70 - 140	Ho	
197 Au	1	2152321	0.30	2087035	103.1	70 - 140	Au	
197 Au	2	2699508	1.21	2625939	102.8	70 - 140	Au	

Tune File$ 1 c:\icpchem\1\7500\he.u
Tune File$ 2 c:\icpchem\1\7500\nogas.u
Tune File$ 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

3 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\009CRI.D\009CRI.D#

Low Level Check (LLC) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\009CRI.D\009CRI.D#
Date Acquired: Apr 13 2010 02:10 pm
Operator:
Sample Name: LLC
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: CRI
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	4.76	ug/l	3.98	5	95.2	70 - 130	Li	
9	Be	6	2	0.47	ug/l	3.29	1	93.5	70 - 130	Be	
11	B	6	2	50.01	ug/l	0.62	50	100.0	70 - 130	B	
23	Na	45	1	58.08	ug/l	1.65	50	116.2	70 - 130	Na	
24	Mg	45	1	54.98	ug/l	1.62	50	110.0	70 - 130	Mg	
27	Al	45	1	31.89	ug/l	2.67	30	106.3	70 - 130	Al	
28	Si	45	2	303.30	ug/l	0.46	250	121.3	70 - 130	Si	
29	Si	45	2	288.40	ug/l	0.68	250	115.4	70 - 130	Si	
31	P	45	1	50.89	ug/l	2.35	50	101.8	70 - 130	P	
34	S	45	1	5061.00	ug/l	5.40	5000	101.2	70 - 130	S	
34	S	45	2	5425.00	ug/l	1.95	5000	108.5	70 - 130	S	
39	K	45	1	109.70	ug/l	2.21	100	109.7	70 - 130	K	
44	Ca	45	2	107.30	ug/l	0.60	100	107.3	70 - 130	Ca	
47	Ti	72	2	5.20	ug/l	0.91	5	104.0	70 - 130	Ti	
51	V	72	1	10.81	ug/l	2.65	10	108.1	70 - 130	V	
52	Cr	72	1	10.76	ug/l	1.73	10	107.6	70 - 130	Cr	
55	Mn	72	1	2.47	ug/l	2.20	2	123.6	70 - 130	Mn	
57	Fe	72	1	53.66	ug/l	3.58	50	107.3	70 - 130	Fe	
59	Co	72	1	2.17	ug/l	1.81	2	108.5	70 - 130	Co	
60	Ni	72	1	5.31	ug/l	2.22	5	106.1	70 - 130	Ni	
63	Cu	72	1	0.87	ug/l	0.92	1	87.4	70 - 130	Cu	
66	Zn	72	1	5.58	ug/l	2.58	5	111.6	70 - 130	Zn	
75	As	72	1	10.14	ug/l	1.53	10	101.4	70 - 130	As	
78	Se	72	1	5.26	ug/l	3.16	5	105.3	70 - 130	Se	
88	Sr	72	2	5.29	ug/l	0.44	5	105.8	70 - 130	Sr	
89	Y	72	1	5.28	ug/l	1.81	5	105.7	70 - 130	Y	
90	Zr	72	1	8.07	ug/l	2.42	5	161.4	70 - 130	Zr	Fail
93	Nb	72	1	28.09	ug/l	2.28	25	112.4	70 - 130	Nb	
95	Mo	72	2	5.05	ug/l	0.77	5	100.9	70 - 130	Mo	
101	Ru	72	1	10.52	ug/l	2.01	10	105.2	70 - 130	Ru	
103	Rh	72	1	10.95	ug/l	1.53	10	109.5	70 - 130	Rh	
105	Pd	72	1	0.54	ug/l	1.45	1	107.7	70 - 130	Pd	
107	Ag	115	2	2.01	ug/l	1.20	2	100.5	70 - 130	Ag	
111	Cd	115	2	0.50	ug/l	2.01	1	99.3	70 - 130	Cd	
118	Sn	115	2	2.18	ug/l	0.64	2	108.9	70 - 130	Sn	
121	Sb	165	2	4.61	ug/l	1.37	5	92.2	70 - 130	Sb	
125	Te	165	1	10.12	ug/l	6.17	10	101.2	70 - 130	Te	
133	Cs	165	1	0.11	ug/l	9.99	0	106.0	70 - 130	Cs	
137	Ba	165	2	2.01	ug/l	2.87	2	100.7	70 - 130	Ba	
139	La	165	1	2.06	ug/l	3.96	2	102.8	70 - 130	La	
140	Ce	165	1	10.17	ug/l	4.39	10	101.7	70 - 130	Ce	
141	Pr	165	1	2.03	ug/l	5.74	2	101.5	70 - 130	Pr	
146	Nd	165	1	2.02	ug/l	8.76	2	101.0	70 - 130	Nd	
147	Sm	165	2	9.66	ug/l	0.35	10	96.6	70 - 130	Sm	
178	Hf	165	1	11.31	ug/l	4.22	10	113.1	70 - 130	Hf	
181	Ta	165	1	10.45	ug/l	4.05	10	104.5	70 - 130	Ta	
182	W	197	1	5.15	ug/l	3.48	5	103.0	70 - 130	W	
195	Pt	197	1	1.04	ug/l	3.08	1	104.1	70 - 130	Pt	
205	Tl	197	2	2.00	ug/l	1.10	2	100.2	70 - 130	Tl	
206	(Pb)	197	2	3.02	ug/l	0.59	3	100.7	70 - 130	(Pb)	
207	(Pb)	197	2	3.00	ug/l	0.83	3	99.9	70 - 130	(Pb)	
208	Pb	197	2	3.01	ug/l	0.36	3	100.4	70 - 130	Pb	
209	Bi	197	1	21.08	ug/l	0.29	20	105.4	70 - 130	Bi	
232	Th	197	2	5.80	ug/l	3.93	2	289.9	70 - 130	Th	Fail
238	U	197	2	1.03	ug/l	0.99	1	102.7	70 - 130	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6392734	1.06	5986087	106.8	70 - 140	Li	
45	Sc	1	506376	1.93	509565	99.4	70 - 140	Sc	
45	Sc	2	7128669	0.35	6903232	103.3	70 - 140	Sc	
72	Ge	1	282525	2.05	275046	102.7	70 - 140	Ge	
72	Ge	2	1498712	0.22	1427904	105.0	70 - 140	Ge	
115	In	2	9031196	0.81	8556655	105.5	70 - 140	In	
165	Ho	1	6400400	4.28	6247878	102.4	70 - 140	Ho	
165	Ho	2	11706904	0.93	11326620	103.4	70 - 140	Ho	
197	Au	1	2151333	0.85	2087035	103.1	70 - 140	Au	
197	Au	2	2717949	0.16	2625939	103.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\010ICSA.D\010ICSA.D#

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\010ICSA.D\010ICSA.D#
Date Acquired: Apr 13 2010 02:17 pm
Acq. Method: 2010.M
Operator:
Sample Name: ICSA
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-ICSA_D
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Element	Flag
7	Li	6	2	-0.03 ug/l	325.82	1.35	Li	
9	Be	6	2	-0.01 ug/l	8.96	0.23	Be	
11	B	6	2	1.66 ug/l	6.42	14.94	B	
23	Na	45	1	9733.00 ug/l	2.21	10.60	Na	
24	Mg	45	1	9785.00 ug/l	0.94	3.46	Mg	
27	Al	45	1	9806.00 ug/l	0.87	8.94	Al	
28	Si	45	2	2.22 ug/l	3.77	35.60	Si	
29	Si	45	2	10.08 ug/l	9.99	35.60	Si	
31	P	45	1	10140.00 ug/l	1.53	16.46	P	
34	S	45	1	10370.00 ug/l	0.43	666.00	S	
34	S	45	2	11150.00 ug/l	0.78	666.00	S	
39	K	45	1	9569.00 ug/l	1.15	16.66	K	
44	Ca	45	2	9794.00 ug/l	0.67	97.40	Ca	
47	Ti	72	2	209.10 ug/l	0.76	1.15	Ti	
51	V	72	1	-0.01 ug/l	203.88	4.74	V	
52	Cr	72	1	0.14 ug/l	6.90	6.52	Cr	
55	Mn	72	1	0.07 ug/l	2.66	0.47	Mn	
57	Fe	72	1	10310.00 ug/l	1.18	40.70	Fe	
59	Co	72	1	0.00 ug/l	36.89	0.43	Co	
60	Ni	72	1	0.10 ug/l	3.60	0.46	Ni	
63	Cu	72	1	-0.21 ug/l	1.13	0.19	Cu	FAIL
66	Zn	72	1	3.35 ug/l	2.17	7.48	Zn	
75	As	72	1	-0.10 ug/l	14.79	1.89	As	
78	Se	72	1	0.02 ug/l	311.92	0.62	Se	
88	Sr	72	2	0.56 ug/l	2.75	0.23	Sr	FAIL
89	Y	72	1	0.00 ug/l	36.74	0.42	Y	
90	Zr	72	1	0.62 ug/l	16.09	0.50	Zr	FAIL
93	Nb	72	1	0.07 ug/l	179.48	4.46	Nb	
95	Mo	72	2	204.30 ug/l	2.21	0.43	Mo	
101	Ru	72	1	0.00 ug/l	53.38	2.00	Ru	
103	Rh	72	1	-0.01 ug/l	8.75	1.63	Rh	
105	Pd	72	1	0.00 ug/l	100.00	0.08	Pd	
107	Ag	115	2	0.01 ug/l	17.14	0.08	Ag	
111	Cd	115	2	0.12 ug/l	12.72	0.11	Cd	FAIL
118	Sn	115	2	0.01 ug/l	250.53	0.30	Sn	
121	Sb	165	2	0.13 ug/l	6.16	2.24	Sb	
125	Te	165	1	0.07 ug/l	90.08	1.07	Te	
133	Cs	165	1	0.01 ug/l	19.88	0.11	Cs	
137	Ba	165	2	0.04 ug/l	14.17	0.39	Ba	
139	La	165	1	0.00 ug/l	67.60	0.10	La	
140	Ce	165	1	0.00 ug/l	13.24	1.77	Ce	
141	Pr	165	1	0.00 ug/l	4.07	0.08	Pr	
146	Nd	165	1	0.00 ug/l	117.88	0.21	Nd	
147	Sm	165	2	0.00 ug/l	36.10	0.65	Sm	
178	Hf	165	1	1.23 ug/l	16.03	2.26	Hf	
181	Ta	165	1	0.38 ug/l	38.51	1.46	Ta	
182	W	197	1	0.29 ug/l	47.02	1.68	W	
195	Pt	197	1	0.00 ug/l	81.24	0.12	Pt	
205	Tl	197	2	0.01 ug/l	72.62	1.10	Tl	
206	(Pb)	197	2	0.02 ug/l	20.01	2.00	(Pb)	
207	(Pb)	197	2	0.02 ug/l	11.42	2.00	(Pb)	
208	Pb	197	2	0.02 ug/l	5.95	0.35	Pb	
209	Bi	197	1	0.00 ug/l	29.55	1.46	Bi	
232	Th	197	2	3.42 ug/l	2.84	1.10	Th	FAIL
238	U	197	2	-0.01 ug/l	9.89	0.16	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6214441	0.69	5986087	103.8	70 - 140	Li	
45	Sc	1	524251	1.78	509565	102.9	70 - 140	Sc	
45	Sc	2	7108458	0.42	6903232	103.0	70 - 140	Sc	
72	Ge	1	280934	1.63	275046	102.1	70 - 140	Ge	
72	Ge	2	1455799	0.71	1427904	102.0	70 - 140	Ge	
115	In	2	8670974	0.51	8556655	101.3	70 - 140	In	
165	Ho	1	6436432	0.80	6247878	103.0	70 - 140	Ho	
165	Ho	2	11650613	0.36	11326620	102.9	70 - 140	Ho	
197	Au	1	2055478	2.09	2087035	98.5	70 - 140	Au	
197	Au	2	2634264	0.69	2625939	100.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

5 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\011ICSB.D\011ICSB.D#
Date Acquired: Apr 13 2010 02:24 pm
Acq. Method: 2010.M
Operator:
Sample Name: ICSAB
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Element	Flag
7 Li	6	2	97.36	0.97	100	97.4	80 - 120	Li	
9 Be	6	2	98.98	0.73	100	99.0	80 - 120	Be	
11 B	6	2	203.20	0.81	200	101.6	80 - 120	B	
23 Na	45	1	10010.00	1.36	10000	100.1	80 - 120	Na	
24 Mg	45	1	10080.00	1.10	10000	100.8	80 - 120	Mg	
27 Al	45	1	9978.00	0.65	10000	99.8	80 - 120	Al	
28 Si	45	2	588.30	0.69	500	117.7	80 - 120	Si	
29 Si	45	2	576.30	1.24	500	115.3	80 - 120	Si	
31 P	45	1	10220.00	0.87	10000	102.2	80 - 120	P	
34 S	45	1	10330.00	1.53	10000	103.3	80 - 120	S	
34 S	45	2	10750.00	1.12	10000	107.5	80 - 120	S	
39 K	45	1	9853.00	1.72	10000	98.5	80 - 120	K	
44 Ca	45	2	9714.00	0.43	10000	97.1	80 - 120	Ca	
47 Ti	72	2	207.10	0.57	200	103.6	80 - 120	Ti	
51 V	72	1	104.90	0.93	100	104.9	80 - 120	V	
52 Cr	72	1	102.10	1.17	100	102.1	80 - 120	Cr	
55 Mn	72	1	100.90	0.84	100	100.9	80 - 120	Mn	
57 Fe	72	1	10130.00	2.21	10000	101.3	80 - 120	Fe	
59 Co	72	1	99.50	2.75	100	99.5	80 - 120	Co	
60 Ni	72	1	98.13	0.62	100	98.1	80 - 120	Ni	
63 Cu	72	1	98.95	0.63	100	99.0	80 - 120	Cu	
66 Zn	72	1	102.10	0.94	100	102.1	80 - 120	Zn	
75 As	72	1	101.10	1.15	100	101.1	80 - 120	As	
78 Se	72	1	101.30	1.15	100	101.3	80 - 120	Se	
88 Sr	72	2	101.50	0.56	100	101.5	80 - 120	Sr	
89 Y	72	1	103.50	1.74	100	103.5	80 - 120	Y	
90 Zr	72	1	95.02	1.47	100	95.0	80 - 120	Zr	
93 Nb	72	1	82.84	1.03	100	82.8	80 - 120	Nb	
95 Mo	72	2	201.70	0.40	200	100.9	80 - 120	Mo	
101 Ru	72	1	99.09	0.85	100	99.1	80 - 120	Ru	
103 Rh	72	1	98.15	1.19	100	98.2	80 - 120	Rh	
105 Pd	72	1	24.13	1.59	25	96.5	80 - 120	Pd	
107 Ag	115	2	19.18	1.33	20	95.9	80 - 120	Ag	
111 Cd	115	2	94.68	1.06	100	94.7	80 - 120	Cd	
118 Sn	115	2	98.17	1.17	100	98.2	80 - 120	Sn	
121 Sb	165	2	47.87	1.61	50	95.7	80 - 120	Sb	
125 Te	165	1	93.67	0.40	100	93.7	80 - 120	Te	
133 Cs	165	1	98.10	1.74	100	98.1	80 - 120	Cs	
137 Ba	165	2	96.19	1.03	100	96.2	80 - 120	Ba	
139 La	165	1	98.57	0.28	100	98.6	80 - 120	La	
140 Ce	165	1	98.24	0.90	100	98.2	80 - 120	Ce	
141 Pr	165	1	99.02	0.97	100	99.0	80 - 120	Pr	
146 Nd	165	1	96.72	1.25	100	96.7	80 - 120	Nd	
147 Sm	165	2	95.93	1.04	100	95.9	80 - 120	Sm	
178 Hf	165	1	88.67	1.08	100	88.7	80 - 120	Hf	
181 Ta	165	1	101.00	2.40	100	101.0	80 - 120	Ta	
182 W	197	1	97.35	2.21	100	97.4	80 - 120	W	
195 Pt	197	1	24.35	1.00	25	97.4	80 - 120	Pt	
205 Tl	197	2	99.74	1.75	100	99.7	80 - 120	Tl	
206 (Pb)	197	2	99.13	1.62	100	99.1	80 - 120	(Pb)	
207 (Pb)	197	2	96.31	1.61	100	96.3	80 - 120	(Pb)	
208 Pb	197	2	98.90	1.10	100	98.9	80 - 120	Pb	
209 Bi	197	1	101.60	1.03	100	101.6	80 - 120	Bi	
232 Th	197	2	95.92	1.16	100	95.9	80 - 120	Th	
238 U	197	2	100.20	0.41	100	100.2	80 - 120	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6158097	0.14	5986087	102.9	70 - 140	Li	
45 Sc	1	514956	0.58	509565	101.1	70 - 140	Sc	
45 Sc	2	7194056	0.62	6903232	104.2	70 - 140	Sc	
72 Ge	1	284078	0.75	275046	103.3	70 - 140	Ge	
72 Ge	2	1475869	0.63	1427904	103.4	70 - 140	Ge	
115 In	2	8715392	0.96	8556655	101.9	70 - 140	In	
165 Ho	1	6447881	1.16	6247878	103.2	70 - 140	Ho	
165 Ho	2	11582383	0.62	11326620	102.3	70 - 140	Ho	
197 Au	1	2082171	1.43	2087035	99.8	70 - 140	Au	
197 Au	2	2669666	0.79	2625939	101.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\012_CCV.D\012_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\012_CCV.D\012_CCV.D#
Date Acquired: Apr 13 2010 02:31 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	100.00	ug/l	2.07	100	100.0	90 - 110	Li	
9	Be	6	2	98.95	ug/l	1.07	100	99.0	90 - 110	Be	
11	B	6	2	206.20	ug/l	1.64	200	103.1	90 - 110	B	
23	Na	45	1	1287.00	ug/l	0.51	1250	103.0	90 - 110	Na	
24	Mg	45	1	2570.00	ug/l	0.07	2500	102.8	90 - 110	Mg	
27	Al	45	1	1277.00	ug/l	0.77	1250	102.2	90 - 110	Al	
28	Si	45	2	1306.00	ug/l	2.99	1250	104.5	90 - 110	Si	
29	Si	45	2	1307.00	ug/l	3.44	1250	104.6	90 - 110	Si	
31	P	45	1	1275.00	ug/l	0.36	1250	102.0	90 - 110	P	
34	S	45	1	19990.00	ug/l	1.29	20000	100.0	90 - 110	S	
34	S	45	2	21280.00	ug/l	3.84	20000	106.4	90 - 110	S	
39	K	45	1	1293.00	ug/l	1.02	1250	103.4	90 - 110	K	
44	Ca	45	2	2597.00	ug/l	3.91	2500	103.9	90 - 110	Ca	
47	Ti	72	2	102.60	ug/l	1.47	100	102.6	90 - 110	Ti	
51	V	72	1	103.10	ug/l	0.39	100	103.1	90 - 110	V	
52	Cr	72	1	101.60	ug/l	0.40	100	101.6	90 - 110	Cr	
55	Mn	72	1	101.60	ug/l	0.60	100	101.6	90 - 110	Mn	
57	Fe	72	1	2534.00	ug/l	0.23	2500	101.4	90 - 110	Fe	
59	Co	72	1	101.30	ug/l	1.25	100	101.3	90 - 110	Co	
60	Ni	72	1	99.76	ug/l	0.31	100	99.8	90 - 110	Ni	
63	Cu	72	1	101.50	ug/l	0.53	100	101.5	90 - 110	Cu	
66	Zn	72	1	99.70	ug/l	0.87	100	99.7	90 - 110	Zn	
75	As	72	1	100.30	ug/l	0.80	100	100.3	90 - 110	As	
78	Se	72	1	100.60	ug/l	0.85	100	100.6	90 - 110	Se	
88	Sr	72	2	102.70	ug/l	1.58	100	102.7	90 - 110	Sr	
89	Y	72	1	102.40	ug/l	0.39	100	102.4	90 - 110	Y	
90	Zr	72	1	103.90	ug/l	0.56	100	103.9	90 - 110	Zr	
93	Nb	72	1	59.31	ug/l	1.44	50	118.6	90 - 110	Nb	Fail
95	Mo	72	2	101.70	ug/l	1.70	100	101.7	90 - 110	Mo	
101	Ru	72	1	100.90	ug/l	0.96	100	100.9	90 - 110	Ru	
103	Rh	72	1	101.90	ug/l	0.93	100	101.9	90 - 110	Rh	
105	Pd	72	1	9.95	ug/l	1.73	10	99.5	90 - 110	Pd	
107	Ag	115	2	20.45	ug/l	2.44	20	102.3	90 - 110	Ag	
111	Cd	115	2	100.00	ug/l	1.90	100	100.0	90 - 110	Cd	
118	Sn	115	2	102.10	ug/l	2.86	100	102.1	90 - 110	Sn	
121	Sb	165	2	50.81	ug/l	3.37	50	101.6	90 - 110	Sb	
125	Te	165	1	97.77	ug/l	3.34	100	97.8	90 - 110	Te	
133	Cs	165	1	100.50	ug/l	0.43	100	100.5	90 - 110	Cs	
137	Ba	165	2	100.40	ug/l	3.83	100	100.4	90 - 110	Ba	
139	La	165	1	101.60	ug/l	0.99	100	101.6	90 - 110	La	
140	Ce	165	1	102.20	ug/l	1.52	100	102.2	90 - 110	Ce	
141	Pr	165	1	100.90	ug/l	1.57	100	100.9	90 - 110	Pr	
146	Nd	165	1	98.88	ug/l	1.38	100	98.9	90 - 110	Nd	
147	Sm	165	2	101.10	ug/l	3.46	100	101.1	90 - 110	Sm	
178	Hf	165	1	104.00	ug/l	0.63	100	104.0	90 - 110	Hf	
181	Ta	165	1	99.43	ug/l	1.39	100	99.4	90 - 110	Ta	
182	W	197	1	98.74	ug/l	1.99	100	98.7	90 - 110	W	
195	Pt	197	1	10.00	ug/l	0.51	10	100.0	90 - 110	Pt	
205	Tl	197	2	102.90	ug/l	3.03	100	102.9	90 - 110	Tl	
206	(Pb)	197	2	103.20	ug/l	3.89	100	103.2	90 - 110	(Pb)	
207	(Pb)	197	2	100.40	ug/l	4.79	100	100.4	90 - 110	(Pb)	
208	Pb	197	2	102.30	ug/l	4.13	100	102.3	90 - 110	Pb	
209	Bi	197	1	102.80	ug/l	0.74	100	102.8	90 - 110	Bi	
232	Th	197	2	95.63	ug/l	3.51	100	95.6	90 - 110	Th	
238	U	197	2	101.90	ug/l	2.12	100	101.9	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6133752	0.57	5986087	102.5	70 - 140	Li	
45	Sc	1	508256	0.46	509565	99.7	70 - 140	Sc	
45	Sc	2	6863817	2.11	6903232	99.4	70 - 140	Sc	
72	Ge	1	287325	0.22	275046	104.5	70 - 140	Ge	
72	Ge	2	1459804	1.04	1427904	102.2	70 - 140	Ge	
115	In	2	8567582	1.30	8556655	100.1	70 - 140	In	
165	Ho	1	6337783	1.23	6247878	101.4	70 - 140	Ho	
165	Ho	2	11190686	2.68	11326620	98.8	70 - 140	Ho	
197	Au	1	2144192	1.07	2087035	102.7	70 - 140	Au	
197	Au	2	2648677	3.37	2625939	100.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\013_CCB.D\013_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\013_CCB.D\013_CCB.D#
Date Acquired: Apr 13 2010 02:39 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDCD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.009	ug/l	1213.50	1.35	Li	
9 Be	6	2	0.015	ug/l	10.55	0.23	Be	
11 B	6	2	2.914	ug/l	8.76	14.94	B	
23 Na	45	1	1.188	ug/l	21.48	10.60	Na	
24 Mg	45	1	0.463	ug/l	38.65	3.46	Mg	
27 Al	45	1	0.183	ug/l	52.69	8.94	Al	
28 Si	45	2	0.372	ug/l	36.72	35.60	Si	
29 Si	45	2	0.172	ug/l	426.72	35.60	Si	
31 P	45	1	0.977	ug/l	32.66	16.46	P	
34 S	45	1	-52.750	ug/l	124.59	666.00	S	
34 S	45	2	-157.700	ug/l	11.00	666.00	S	
39 K	45	1	1.495	ug/l	41.63	16.66	K	
44 Ca	45	2	-3.940	ug/l	29.11	97.40	Ca	
47 Ti	72	2	0.321	ug/l	4.34	1.15	Ti	
51 V	72	1	0.186	ug/l	17.46	6.74	V	
52 Cr	72	1	0.018	ug/l	34.07	6.52	Cr	
55 Mn	72	1	0.017	ug/l	27.25	0.47	Mn	
57 Fe	72	1	6.306	ug/l	24.15	40.70	Fe	
59 Co	72	1	0.012	ug/l	47.73	0.43	Co	
60 Ni	72	1	0.011	ug/l	50.21	0.46	Ni	
63 Cu	72	1	0.015	ug/l	44.74	0.19	Cu	
66 Zn	72	1	0.027	ug/l	116.00	7.48	Zn	
75 As	72	1	-0.002	ug/l	1436.50	1.89	As	
78 Se	72	1	0.162	ug/l	38.09	0.62	Se	
88 Sr	72	2	0.019	ug/l	12.98	0.23	Sr	
89 Y	72	1	0.011	ug/l	47.38	0.42	Y	
90 Zr	72	1	0.106	ug/l	16.59	0.50	Zr	
93 Nb	72	1	1.087	ug/l	26.01	4.46	Nb	
95 Mo	72	2	0.357	ug/l	2.40	0.43	Mo	
101 Ru	72	1	0.019	ug/l	39.27	2.00	Ru	
103 Rh	72	1	0.033	ug/l	27.56	1.62	Rh	
105 Pd	72	1	0.003	ug/l	70.59	0.08	Pd	
107 Ag	115	2	0.004	ug/l	46.11	0.08	Ag	
111 Cd	115	2	0.020	ug/l	15.57	0.11	Cd	
118 Sn	115	2	0.360	ug/l	6.41	0.30	Sn	FAIL
121 Sb	165	2	0.193	ug/l	8.16	2.24	Sb	
125 Te	165	1	0.254	ug/l	33.64	1.07	Te	
133 Cs	165	1	0.040	ug/l	32.09	0.11	Cs	
137 Ba	165	2	0.019	ug/l	17.61	0.39	Ba	
139 La	165	1	0.012	ug/l	41.56	0.10	La	
140 Ce	165	1	0.012	ug/l	37.75	1.77	Ce	
141 Pr	165	1	0.011	ug/l	39.52	0.08	Pr	
146 Nd	165	1	0.012	ug/l	35.91	0.21	Nd	
147 Sm	165	2	0.014	ug/l	4.86	0.65	Sm	
178 Hf	165	1	0.272	ug/l	3.99	2.26	Hf	
181 Ta	165	1	0.343	ug/l	37.52	1.46	Ta	
182 W	197	1	1.455	ug/l	18.80	1.68	W	
195 Pt	197	1	0.002	ug/l	32.29	0.12	Pt	
205 Tl	197	2	0.373	ug/l	7.96	1.10	Tl	
206 (Pb)	197	2	0.024	ug/l	36.43	2.00	(Pb)	
207 (Pb)	197	2	0.035	ug/l	4.46	2.00	(Pb)	
208 Pb	197	2	0.029	ug/l	13.04	0.35	Pb	
209 Bi	197	1	0.013	ug/l	49.03	1.46	Bi	
232 Th	197	2	-0.032	ug/l	194.05	1.10	Th	
238 U	197	2	0.049	ug/l	6.55	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6401473	1.86	5986087	106.9	70 - 140	Li	
45 Sc	1	525697	0.43	509565	103.2	70 - 140	Sc	
45 Sc	2	7126428	0.88	6903232	103.2	70 - 140	Sc	
72 Ge	1	284075	0.37	275046	103.3	70 - 140	Ge	
72 Ge	2	1484462	0.23	1427904	104.0	70 - 140	Ge	
115 In	2	8915466	0.54	8556655	104.2	70 - 140	In	
165 Ho	1	6519973	0.16	6247878	104.4	70 - 140	Ho	
165 Ho	2	11693037	0.84	11326620	103.2	70 - 140	Ho	
197 Au	1	2157476	0.33	2087035	103.4	70 - 140	Au	
197 Au	2	2713196	1.16	2625939	103.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\014SMPL.D\014SMPL.D#
Date Acquired: Apr 13 2010 02:46 pm
Operator:
Sample Name: 1PPM
Misc Info: LDR
Vial Number: 1201
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	1032.00 ug/l	0.00	2.21	2000	Li	
9	Be	6		2	1000.00 ug/l	0.00	1.58	2000	Be	
11	B	6		2	2091.00 ug/l	0.00	1.98	4000	B	
23	Na	45		1	4.68 ug/l	0.00	4.05	200000	Na	
24	Mg	45		1	3.63 ug/l	0.00	2.29	200000	Mg	
27	Al	45		1	9.54 ug/l	0.00	2.88	200000	Al	
28	Si	45		2	30.08 ug/l	0.00	0.88	200000	Si	
29	Si	45		2	29.91 ug/l	0.00	2.95	200000	Si	
31	P	45		1	0.97 ug/l	0.00	81.00	200000	P	
34	S	45		1	-234.00 ug/l	0.00	25.49	200000	S	
34	S	45		2	-273.20 ug/l	0.00	11.33	200000	S	
39	K	45		1	1.25 ug/l	0.00	32.88	200000	K	
44	Ca	45		2	-103.80 ug/l	0.00	1.89	200000	Ca	
47	Ti	72		2	984.20 ug/l	0.00	0.51	5000	Ti	
51	V	72		1	965.00 ug/l	0.00	0.40	2000	V	
52	Cr	72		1	965.80 ug/l	0.00	0.89	2000	Cr	
55	Mn	72		1	964.00 ug/l	0.00	0.95	5000	Mn	
57	Fe	72		1	4.08 ug/l	0.00	23.31	200000	Fe	
59	Co	72		1	977.50 ug/l	0.00	1.79	2000	Co	
60	Ni	72		1	970.30 ug/l	0.00	1.60	2000	Ni	
63	Cu	72		1	974.60 ug/l	0.00	1.70	5000	Cu	
66	Zn	72		1	983.20 ug/l	0.00	0.49	5000	Zn	
75	As	72		1	976.20 ug/l	0.00	1.46	2000	As	
78	Se	72		1	1031.00 ug/l	0.00	0.81	2000	Se	
88	Sr	72		2	1000.00 ug/l	0.00	0.67	5000	Sr	
89	Y	72		1	0.02 ug/l	0.00	10.24	1000	Y	
90	Zr	72		1	954.90 ug/l	0.00	0.80	2000	Zr	
93	Nb	72		1	6.07 ug/l	0.00	15.08	1000	Nb	
95	Mo	72		2	992.50 ug/l	0.00	0.17	2000	Mo	
101	Ru	72		1	0.01 ug/l	0.00	69.62	1000	Ru	
103	Rh	72		1	0.07 ug/l	0.00	2.97	1000	Rh	
105	Pd	72		1	0.07 ug/l	0.00	9.16	1000	Pd	
107	Ag	115		2	194.00 ug/l	0.00	1.30	400	Ag	
111	Cd	115		2	956.70 ug/l	0.00	1.00	2000	Cd	
118	Sn	115		2	966.10 ug/l	0.00	0.76	2000	Sn	
121	Sb	165		2	456.40 ug/l	0.00	0.85	1000	Sb	
125	Te	165		1	0.29 ug/l	0.00	39.06	1000	Te	
133	Cs	165		1	0.01 ug/l	0.00	55.56	1000	Cs	
137	Ba	165		2	945.60 ug/l	0.00	2.07	5000	Ba	
139	La	165		1	0.01 ug/l	0.00	11.04	2000	La	
140	Ce	165		1	0.00 ug/l	0.00	73.14	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	34.85	1000	Pr	
146	Nd	165		1	0.02 ug/l	0.00	4.06	1000	Nd	
147	Sm	165		2	944.80 ug/l	0.00	1.30	1000	Sm	
178	Hf	165		1	16.32 ug/l	0.00	4.29	2000	Hf	
181	Ta	165		1	7.81 ug/l	0.00	11.83	1000	Ta	
182	W	197		1	980.70 ug/l	0.00	1.30	2000	W	
195	Pt	197		1	0.06 ug/l	0.00	6.10	1000	Pt	
205	Tl	197		2	1008.00 ug/l	0.00	0.86	2000	Tl	
206	(Pb)	197		2	989.30 ug/l	0.00	1.27	2000	(Pb)	
207	(Pb)	197		2	978.50 ug/l	0.00	2.13	2000	(Pb)	
208	Pb	197		2	989.10 ug/l	0.00	1.63	5000	Pb	
209	Bi	197		1	0.01 ug/l	0.00	8.07	2000	Bi	
232	Th	197		2	962.40 ug/l	0.00	0.54	2000	Th	
238	U	197		2	1004.00 ug/l	0.00	0.36	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5662341	0.87	5986087	94.6	70 - 140	Li	
45	Sc	1	520307	1.38	509565	102.1	70 - 140	Sc	
45	Sc	2	6916026	1.09	6903232	100.2	70 - 140	Sc	
72	Ge	1	279529	0.88	275046	101.8	70 - 140	Ge	
72	Ge	2	1432292	0.29	1427904	100.3	70 - 140	Ge	
115	In	2	8578685	1.09	8556655	100.3	70 - 140	In	
165	Ho	1	6408079	0.44	6247878	102.6	70 - 140	Ho	
165	Ho	2	11393020	1.56	11326620	100.6	70 - 140	Ho	
197	Au	1	2141238	0.89	2087035	102.6	70 - 140	Au	
197	Au	2	2634472	0.89	2625939	100.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\015SMPL.D\015SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\015SMPL.D\015SMPL.D#
Date Acquired: Apr 13 2010 02:53 pm
Operator:
Sample Name: 2PPM
Misc Info:
Vial Number: 1202
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	2330.00 ug/l	0.00	0.61	2000	Li	>LDR
9	Be	6	2	2224.00 ug/l	0.00	1.24	2000	Be	>LDR
11	B	6	2	4683.00 ug/l	0.00	2.74	4000	B	>LDR
23	Na	45	1	6.79 ug/l	0.00	1.84	200000	Na	
24	Mg	45	1	7.13 ug/l	0.00	1.85	200000	Mg	
27	Al	45	1	18.25 ug/l	0.00	1.29	200000	Al	
28	Si	45	2	101.70 ug/l	0.00	4.46	200000	Si	
29	Si	45	2	95.72 ug/l	0.00	4.47	200000	Si	
31	P	45	1	0.46 ug/l	0.00	73.25	200000	P	
34	S	45	1	-141.60 ug/l	0.00	25.30	200000	S	
34	S	45	2	-194.70 ug/l	0.00	17.78	200000	S	
39	K	45	1	1.21 ug/l	0.00	48.00	200000	K	
44	Ca	45	2	87.37 ug/l	0.00	11.49	200000	Ca	
47	Ti	72	2	1981.00 ug/l	0.00	1.44	5000	Ti	
51	V	72	1	1864.00 ug/l	0.00	0.63	2000	V	
52	Cr	72	1	1879.00 ug/l	0.00	0.91	2000	Cr	
55	Mn	72	1	1861.00 ug/l	0.00	0.86	5000	Mn	
57	Fe	72	1	5.04 ug/l	0.00	6.64	200000	Fe	
59	Co	72	1	1869.00 ug/l	0.00	0.58	2000	Co	
60	Ni	72	1	1829.00 ug/l	0.00	0.99	2000	Ni	
63	Cu	72	1	1845.00 ug/l	0.00	0.94	5000	Cu	
66	Zn	72	1	1865.00 ug/l	0.00	0.63	5000	Zn	
75	As	72	1	1888.00 ug/l	0.00	0.52	2000	As	
78	Se	72	1	1986.00 ug/l	0.00	1.01	2000	Se	
88	Sr	72	2	2061.00 ug/l	0.00	1.87	5000	Sr	
89	Y	72	1	0.04 ug/l	0.00	10.18	1000	Y	
90	Zr	72	1	1875.00 ug/l	0.00	1.80	2000	Zr	
93	Nb	72	1	6.40 ug/l	0.00	18.27	1000	Nb	
95	Mo	72	2	2029.00 ug/l	0.00	1.50	2000	Mo	>LDR
101	Ru	72	1	0.01 ug/l	0.00	11.64	1000	Ru	
103	Rh	72	1	0.12 ug/l	0.00	6.97	1000	Rh	
105	Pd	72	1	0.14 ug/l	0.00	1.57	1000	Pd	
107	Ag	115	2	394.20 ug/l	0.00	1.90	400	Ag	
111	Cd	115	2	1954.00 ug/l	0.00	1.79	2000	Cd	
118	Sn	115	2	2007.00 ug/l	0.00	2.02	2000	Sn	>LDR
121	Sb	165	2	945.10 ug/l	0.00	1.70	1000	Sb	
125	Te	165	1	0.49 ug/l	0.00	28.11	1000	Te	
133	Cs	165	1	0.01 ug/l	0.00	41.02	1000	Cs	
137	Ba	165	2	1972.00 ug/l	0.00	1.99	5000	Ba	
139	La	165	1	0.03 ug/l	0.00	2.27	2000	La	
140	Ce	165	1	0.00 ug/l	0.00	29.96	2000	Ce	
141	Pr	165	1	0.00 ug/l	0.00	121.79	1000	Pr	
146	Nd	165	1	0.03 ug/l	0.00	19.85	1000	Nd	
147	Sm	165	2	1953.00 ug/l	0.00	1.54	1000	Sm	>LDR
178	Hf	165	1	6.14 ug/l	0.00	13.24	2000	Hf	
181	Ta	165	1	10.00 ug/l	0.00	15.19	1000	Ta	
182	W	197	1	2032.00 ug/l	0.00	1.58	2000	W	>LDR
195	Pt	197	1	0.03 ug/l	0.00	16.75	1000	Pt	
205	Tl	197	2	2050.00 ug/l	0.00	1.64	2000	Tl	>LDR
206	(Pb)	197	2	2050.00 ug/l	0.00	1.17	2000	(Pb)	
207	(Pb)	197	2	2025.00 ug/l	0.00	1.36	2000	(Pb)	
208	Pb	197	2	2042.00 ug/l	0.00	1.42	5000	Pb	
209	Bi	197	1	0.03 ug/l	0.00	7.04	2000	Bi	
232	Th	197	2	2027.00 ug/l	0.00	1.51	2000	Th	>LDR
238	U	197	2	2088.00 ug/l	0.00	1.09	2000	U	>LDR

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	4990284	0.79	5986087	83.4	70 - 140	Li	
45	Sc	1	522214	0.59	509565	102.5	70 - 140	Sc	
45	Sc	2	6589458	2.25	6903232	95.5	70 - 140	Sc	
72	Ge	1	283671	0.69	275046	103.1	70 - 140	Ge	
72	Ge	2	1391773	1.34	1427904	97.5	70 - 140	Ge	
115	In	2	8172905	1.47	8556655	95.5	70 - 140	In	
165	Ho	1	6331502	0.64	6247878	101.3	70 - 140	Ho	
165	Ho	2	10965812	1.90	11326620	96.8	70 - 140	Ho	
197	Au	1	2099917	0.81	2087035	100.6	70 - 140	Au	
197	Au	2	2509653	0.64	2625939	95.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

10 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\016SMPL.D\016SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\016SMPL.D\016SMPL.D#
Date Acquired: Apr 13 2010 03:00 pm
Operator:
Sample Name: 5PPM
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	0.61 ug/l	0.00	9.05	1000	Li	
9	Be	6		2	0.03 ug/l	0.00	8.90	1000	Be	
11	B	6		2	65.55 ug/l	0.00	0.64	2000	B	
23	Na	45		1	4.04 ug/l	0.00	7.33	200000	Na	
24	Mg	45		1	17.82 ug/l	0.00	0.03	200000	Mg	
27	Al	45		1	8.44 ug/l	0.00	10.61	200000	Al	
28	Si	45		2	24.30 ug/l	0.00	1.35	200000	Si	
29	Si	45		2	22.91 ug/l	0.00	1.80	200000	Si	
31	P	45		1	0.49 ug/l	0.00	33.94	200000	P	
34	S	45		1	54.50 ug/l	0.00	82.37	200000	S	
34	S	45		2	96.54 ug/l	0.00	14.54	200000	S	
39	K	45		1	2.69 ug/l	0.00	4.20	200000	K	
44	Ca	45		2	57.93 ug/l	0.00	73.35	200000	Ca	
47	Ti	72		2	4942.00 ug/l	0.00	1.19	5000	Ti	
51	V	72		1	-0.01 ug/l	0.00	39.50	2000	V	
52	Cr	72		1	0.10 ug/l	0.00	8.27	2000	Cr	
55	Mn	72		1	4913.00 ug/l	0.00	2.68	5000	Mn	
57	Fe	72		1	2.32 ug/l	0.00	20.35	200000	Fe	
59	Co	72		1	0.03 ug/l	0.00	8.24	2000	Co	
60	Ni	72		1	0.15 ug/l	0.00	3.11	2000	Ni	
63	Cu	72		1	4869.00 ug/l	0.00	1.03	5000	Cu	
66	Zn	72		1	4883.00 ug/l	0.00	1.19	5000	Zn	
75	As	72		1	0.67 ug/l	0.00	17.85	2000	As	
78	Se	72		1	0.70 ug/l	0.00	16.82	2000	Se	
88	Sr	72		2	5090.00 ug/l	0.00	0.90	5000	Sr	>LDR
89	Y	72		1	0.03 ug/l	0.00	16.13	2000	Y	
90	Zr	72		1	10.90 ug/l	0.00	10.59	2000	Zr	
93	Nb	72		1	1.30 ug/l	0.00	26.70	2000	Nb	
95	Mo	72		2	1.70 ug/l	0.00	4.65	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	117.97	2000	Ru	
103	Rh	72		1	0.28 ug/l	0.00	2.69	2000	Rh	
105	Pd	72		1	0.38 ug/l	0.00	3.51	2000	Pd	
107	Ag	115		2	0.02 ug/l	0.00	3.46	400	Ag	
111	Cd	115		2	0.14 ug/l	0.00	4.17	2000	Cd	
118	Sn	115		2	6.24 ug/l	0.00	4.23	2000	Sn	
121	Sb	165		2	6.95 ug/l	0.00	4.40	1000	Sb	
125	Te	165		1	0.17 ug/l	0.00	32.64	2000	Te	
133	Cs	165		1	-0.01 ug/l	0.00	13.93	2000	Cs	
137	Ba	165		2	4784.00 ug/l	0.00	2.23	5000	Ba	
139	La	165		1	0.01 ug/l	0.00	14.96	2000	La	
140	Ce	165		1	0.00 ug/l	0.00	22.30	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	2.38	2000	Pr	
146	Nd	165		1	0.00 ug/l	0.00	46.32	2000	Nd	
147	Sm	165		2	0.03 ug/l	0.00	20.28	2000	Sm	
178	Hf	165		1	1.00 ug/l	0.00	20.66	2000	Hf	
181	Ta	165		1	2.71 ug/l	0.00	20.78	2000	Ta	
182	W	197		1	12.48 ug/l	0.00	10.67	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	107.16	2000	Pt	
205	Tl	197		2	0.94 ug/l	0.00	5.12	2000	Tl	
206	(Pb)	197		2	4795.00 ug/l	0.00	2.33	2000	(Pb)	
207	(Pb)	197		2	5000.00 ug/l	0.00	2.13	2000	(Pb)	
208	Pb	197		2	4943.00 ug/l	0.00	1.91	5000	Pb	
209	Bi	197		1	0.00 ug/l	0.00	17.23	2000	Bi	
232	Th	197		2	29.57 ug/l	0.00	8.47	2000	Th	
238	U	197		2	0.43 ug/l	0.00	9.86	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6162471	1.17	5986087	102.9	70 - 140	Li	
45	Sc	1	504415	0.46	509565	99.0	70 - 140	Sc	
45	Sc	2	6982396	0.80	6903232	101.1	70 - 140	Sc	
72	Ge	1	280028	0.63	275046	101.8	70 - 140	Ge	
72	Ge	2	1444051	0.59	1427904	101.1	70 - 140	Ge	
115	In	2	8668139	0.33	8556655	101.3	70 - 140	In	
165	Ho	1	6406618	0.35	6247878	102.5	70 - 140	Ho	
165	Ho	2	11434394	1.56	11326620	101.0	70 - 140	Ho	
197	Au	1	2124047	0.64	2087035	101.8	70 - 140	Au	
197	Au	2	2640492	1.78	2625939	100.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\017SMPL.D\017SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\017SMPL.D\017SMPL.D#
Date Acquired: Apr 13 2010 03:07 pm
Operator:
Sample Name: 20PPM
Misc Info:
Vial Number: 1205
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	0.49 ug/l	0.00	21.23	1000	Li	
9	Be	6		2	0.00 ug/l	0.00	38.92	1000	Be	
11	B	6		2	55.87 ug/l	0.00	1.66	2000	B	
23	Na	45		1	19540.00 ug/l	0.00	2.20	200000	Na	
24	Mg	45		1	19550.00 ug/l	0.00	1.84	200000	Mg	
27	Al	45		1	19530.00 ug/l	0.00	1.52	200000	Al	
28	Si	45		2	5.51 ug/l	0.00	3.52	200000	Si	
29	Si	45		2	20.39 ug/l	0.00	2.00	200000	Si	
31	P	45		1	20160.00 ug/l	0.00	0.43	200000	P	
34	S	45		1	20670.00 ug/l	0.00	2.25	200000	S	
34	S	45		2	21550.00 ug/l	0.00	2.47	200000	S	
39	K	45		1	19110.00 ug/l	0.00	1.28	200000	K	
44	Ca	45		2	20150.00 ug/l	0.00	2.38	200000	Ca	
47	Ti	72		2	434.40 ug/l	0.00	0.80	5000	Ti	
51	V	72		1	-0.06 ug/l	0.00	47.36	2000	V	
52	Cr	72		1	0.26 ug/l	0.00	4.19	2000	Cr	
55	Mn	72		1	0.10 ug/l	0.00	4.49	5000	Mn	
57	Fe	72		1	20110.00 ug/l	0.00	2.09	200000	Fe	
59	Co	72		1	0.02 ug/l	0.00	16.88	2000	Co	
60	Ni	72		1	0.16 ug/l	0.00	3.36	2000	Ni	
63	Cu	72		1	0.15 ug/l	0.00	21.70	5000	Cu	
66	Zn	72		1	2.25 ug/l	0.00	3.56	5000	Zn	
75	As	72		1	0.07 ug/l	0.00	37.48	2000	As	
78	Se	72		1	0.16 ug/l	0.00	22.25	2000	Se	
88	Sr	72		2	1.13 ug/l	0.00	0.89	5000	Sr	
89	Y	72		1	0.00 ug/l	0.00	65.99	2000	Y	
90	Zr	72		1	0.06 ug/l	0.00	26.25	2000	Zr	
93	Nb	72		1	-0.28 ug/l	0.00	20.34	2000	Nb	
95	Mo	72		2	409.60 ug/l	0.00	1.15	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	289.00	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	19.58	2000	Rh	
105	Pd	72		1	0.00 ug/l	0.00	14.14	2000	Pd	
107	Ag	115		2	0.03 ug/l	0.00	4.78	400	Ag	
111	Cd	115		2	0.25 ug/l	0.00	2.67	2000	Cd	
118	Sn	115		2	2.04 ug/l	0.00	4.67	2000	Sn	
121	Sb	165		2	3.69 ug/l	0.00	1.73	1000	Sb	
125	Te	165		1	-0.02 ug/l	0.00	136.26	2000	Te	
133	Cs	165		1	0.00 ug/l	0.00	166.15	2000	Cs	
137	Ba	165		2	0.04 ug/l	0.00	3.76	5000	Ba	
139	La	165		1	0.01 ug/l	0.00	33.70	2000	La	
140	Ce	165		1	0.01 ug/l	0.00	4.93	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	9.04	2000	Pr	
146	Nd	165		1	0.00 ug/l	0.00	30.17	2000	Nd	
147	Sm	165		2	0.00 ug/l	0.00	23.30	2000	Sm	
178	Hf	165		1	-0.15 ug/l	0.00	4.54	2000	Hf	
181	Ta	165		1	-0.37 ug/l	0.00	10.10	2000	Ta	
182	W	197		1	2.84 ug/l	0.00	18.50	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	61.77	2000	Pt	
205	Tl	197		2	0.22 ug/l	0.00	7.04	2000	Tl	
206	(Pb)	197		2	0.40 ug/l	0.00	9.11	2000	(Pb)	
207	(Pb)	197		2	0.41 ug/l	0.00	8.26	2000	(Pb)	
208	Pb	197		2	0.40 ug/l	0.00	8.02	5000	Pb	
209	Bi	197		1	-0.01 ug/l	0.00	37.81	2000	Bi	
232	Th	197		2	3.99 ug/l	0.00	1.49	2000	Th	
238	U	197		2	0.07 ug/l	0.00	10.38	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5759878	0.63	5986087	96.2	70 - 140	Li	
45	Sc	1	501100	1.34	509565	98.3	70 - 140	Sc	
45	Sc	2	6570649	1.04	6903232	95.2	70 - 140	Sc	
72	Ge	1	267763	1.34	275046	97.4	70 - 140	Ge	
72	Ge	2	1379209	1.13	1427904	96.6	70 - 140	Ge	
115	In	2	8100432	1.99	8556655	94.7	70 - 140	In	
165	Ho	1	6165326	1.02	6247878	98.7	70 - 140	Ho	
165	Ho	2	10974812	1.54	11326620	96.9	70 - 140	Ho	
197	Au	1	1970123	0.94	2087035	94.4	70 - 140	Au	
197	Au	2	2447860	1.74	2625939	93.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\018SMPL.D\018SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\018SMPL.D\018SMPL.D#
Date Acquired: Apr 13 2010 03:14 pm
Operator:
Sample Name: 100PPM
Misc Info:
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	0.90 ug/l	0.00	14.25	1000	Li	
9 Be	6		2	0.00 ug/l	0.00	579.97	1000	Be	
11 B	6		2	36.87 ug/l	0.00	2.24	2000	B	
23 Na	45		1	95760.00 ug/l	0.00	0.55	200000	Na	
24 Mg	45		1	95200.00 ug/l	0.00	1.46	200000	Mg	
27 Al	45		1	96520.00 ug/l	0.00	1.21	200000	Al	
28 Si	45		2	21.29 ug/l	0.00	1.18	200000	Si	
29 Si	45		2	92.39 ug/l	0.00	0.71	200000	Si	
31 P	45		1	98670.00 ug/l	0.00	0.90	200000	P	
34 S	45		1	101900.00 ug/l	0.00	1.30	200000	S	
34 S	45		2	99710.00 ug/l	0.00	1.07	200000	S	
39 K	45		1	95170.00 ug/l	0.00	1.01	200000	K	
44 Ca	45		2	97580.00 ug/l	0.00	0.18	200000	Ca	
47 Ti	72		2	2067.00 ug/l	0.00	0.35	5000	Ti	
51 V	72		1	-0.30 ug/l	0.00	5.93	2000	V	
52 Cr	72		1	1.26 ug/l	0.00	1.07	2000	Cr	
55 Mn	72		1	0.32 ug/l	0.00	3.07	5000	Mn	
57 Fe	72		1	95920.00 ug/l	0.00	0.67	200000	Fe	
59 Co	72		1	0.08 ug/l	0.00	2.60	2000	Co	
60 Ni	72		1	0.78 ug/l	0.00	0.57	2000	Ni	
63 Cu	72		1	0.06 ug/l	0.00	21.91	5000	Cu	
66 Zn	72		1	3.21 ug/l	0.00	1.34	5000	Zn	
75 As	72		1	0.09 ug/l	0.00	53.40	2000	As	
78 Se	72		1	0.14 ug/l	0.00	50.68	2000	Se	
88 Sr	72		2	5.67 ug/l	0.00	1.56	5000	Sr	
89 Y	72		1	0.01 ug/l	0.00	9.41	2000	Y	
90 Zr	72		1	0.09 ug/l	0.00	19.88	2000	Zr	
93 Nb	72		1	-0.13 ug/l	0.00	71.79	2000	Nb	
95 Mo	72		2	2001.00 ug/l	0.00	0.38	2000	Mo	>LDR
101 Ru	72		1	0.00 ug/l	0.00	447.60	2000	Ru	
103 Rh	72		1	0.00 ug/l	0.00	35.78	2000	Rh	
105 Pd	72		1	0.00 ug/l	0.00	386.01	2000	Pd	
107 Ag	115		2	0.13 ug/l	0.00	4.98	400	Ag	
111 Cd	115		2	1.18 ug/l	0.00	1.54	2000	Cd	
118 Sn	115		2	1.21 ug/l	0.00	3.64	2000	Sn	
121 Sb	165		2	2.85 ug/l	0.00	1.21	1000	Sb	
125 Te	165		1	0.05 ug/l	0.00	60.19	2000	Te	
133 Cs	165		1	0.01 ug/l	0.00	18.76	2000	Cs	
137 Ba	165		2	0.17 ug/l	0.00	14.53	5000	Ba	
139 La	165		1	0.04 ug/l	0.00	6.61	2000	La	
140 Ce	165		1	0.09 ug/l	0.00	4.12	2000	Ce	
141 Pr	165		1	0.00 ug/l	0.00	23.83	2000	Pr	
146 Nd	165		1	0.01 ug/l	0.00	21.86	2000	Nd	
147 Sm	165		2	0.00 ug/l	0.00	32.84	2000	Sm	
178 Hf	165		1	-0.16 ug/l	0.00	1.86	2000	Hf	
181 Ta	165		1	-0.12 ug/l	0.00	72.21	2000	Ta	
182 W	197		1	2.27 ug/l	0.00	19.71	2000	W	
195 Pt	197		1	0.00 ug/l	0.00	233.59	2000	Pt	
205 Tl	197		2	0.16 ug/l	0.00	8.76	2000	Tl	
206 (Pb)	197		2	0.52 ug/l	0.00	2.15	2000	(Pb)	
207 (Pb)	197		2	0.51 ug/l	0.00	2.38	2000	(Pb)	
208 Pb	197		2	0.52 ug/l	0.00	0.49	5000	Pb	
209 Bi	197		1	0.00 ug/l	0.00	380.90	2000	Bi	
232 Th	197		2	5.57 ug/l	0.00	7.50	2000	Th	
238 U	197		2	0.03 ug/l	0.00	4.58	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	5795589	1.07	5986087	96.8	70 - 140	Li	
45 Sc	1	498848	0.33	509565	97.9	70 - 140	Sc	
45 Sc	2	6730353	1.23	6903232	97.5	70 - 140	Sc	
72 Ge	1	266807	0.60	275046	97.0	70 - 140	Ge	
72 Ge	2	1364602	0.78	1427904	95.6	70 - 140	Ge	
115 In	2	8004090	0.80	8555655	93.5	70 - 140	In	
165 Ho	1	5861438	0.26	6247878	93.8	70 - 140	Ho	
165 Ho	2	10938001	0.42	11326620	96.6	70 - 140	Ho	
197 Au	1	1811328	0.71	2087035	86.8	70 - 140	Au	
197 Au	2	2399134	0.67	2625939	91.4	70 - 140	Au	

Tune File# 1 C:\icpchem\1\7500\he.u
Tune File# 2 C:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\019SMPL.D\019SMPL.D#
Date Acquired: Apr 13 2010 03:22 pm
Operator:
Sample Name: 200PPM
Misc Info:
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	1.41 ug/l	0.00	9.71	1000	Li	
9	Be	6	2	0.00 ug/l	0.00	89.95	1000	Be	
11	B	6	2	19.09 ug/l	0.00	3.35	2000	B	
23	Na	45	1	202800.00 ug/l	0.00	2.78	200000	Na	>LDR
24	Mg	45	1	199200.00 ug/l	0.00	2.83	200000	Mg	
27	Al	45	1	202900.00 ug/l	0.00	2.43	200000	Al	>LDR
28	Si	45	2	44.35 ug/l	0.00	16.41	200000	Si	
29	Si	45	2	191.60 ug/l	0.00	1.43	200000	Si	
31	P	45	1	200900.00 ug/l	0.00	2.18	200000	P	>LDR
34	S	45	1	213800.00 ug/l	0.00	2.64	200000	S	>LDR
34	S	45	2	202200.00 ug/l	0.00	1.07	200000	S	>LDR
39	K	45	1	203100.00 ug/l	0.00	2.09	200000	K	>LDR
44	Ca	45	2	201900.00 ug/l	0.00	0.23	200000	Ca	>LDR
47	Ti	72	2	4230.00 ug/l	0.00	0.87	5000	Ti	
51	V	72	1	-0.37 ug/l	0.00	4.17	2000	V	
52	Cr	72	1	2.51 ug/l	0.00	2.66	2000	Cr	
55	Mn	72	1	0.56 ug/l	0.00	5.02	5000	Mn	
57	Fe	72	1	191300.00 ug/l	0.00	3.14	200000	Fe	
59	Co	72	1	0.18 ug/l	0.00	2.72	2000	Co	
60	Ni	72	1	1.36 ug/l	0.00	3.94	2000	Ni	
63	Cu	72	1	0.13 ug/l	0.00	9.35	5000	Cu	
66	Zn	72	1	5.55 ug/l	0.00	1.71	5000	Zn	
75	As	72	1	0.14 ug/l	0.00	11.35	2000	As	
78	Se	72	1	0.15 ug/l	0.00	34.28	2000	Se	
88	Sr	72	2	11.38 ug/l	0.00	0.87	5000	Sr	
89	Y	72	1	0.02 ug/l	0.00	11.44	2000	Y	
90	Zr	72	1	0.18 ug/l	0.00	6.63	2000	Zr	
93	Nb	72	1	-0.11 ug/l	0.00	63.64	2000	Nb	
95	Mo	72	2	4016.00 ug/l	0.00	0.42	2000	Mo	>LDR
101	Ru	72	1	0.00 ug/l	0.00	302.29	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	18.69	2000	Rh	
105	Pd	72	1	0.00 ug/l	0.00	56.75	2000	Pd	
107	Ag	115	2	0.24 ug/l	0.00	3.37	400	Ag	
111	Cd	115	2	2.19 ug/l	0.00	3.32	2000	Cd	
118	Sn	115	2	0.60 ug/l	0.00	8.45	2000	Sn	
121	Sb	165	2	2.22 ug/l	0.00	2.19	1000	Sb	
125	Te	165	1	0.11 ug/l	0.00	8.87	2000	Te	
133	Cs	165	1	0.03 ug/l	0.00	8.67	2000	Cs	
137	Ba	165	2	0.31 ug/l	0.00	4.30	5000	Ba	
139	La	165	1	0.10 ug/l	0.00	3.13	2000	La	
140	Ce	165	1	0.19 ug/l	0.00	3.27	2000	Ce	
141	Pr	165	1	0.00 ug/l	0.00	58.05	2000	Pr	
146	Nd	165	1	0.02 ug/l	0.00	13.69	2000	Nd	
147	Sm	165	2	0.00 ug/l	0.00	113.00	2000	Sm	
178	Hf	165	1	-0.15 ug/l	0.00	1.91	2000	Hf	
181	Ta	165	1	-0.19 ug/l	0.00	35.95	2000	Ta	
182	W	197	1	1.29 ug/l	0.00	15.01	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	181.86	2000	Pt	
205	Tl	197	2	0.05 ug/l	0.00	12.61	2000	Tl	
206	(Pb)	197	2	0.66 ug/l	0.00	2.24	2000	(Pb)	
207	(Pb)	197	2	0.64 ug/l	0.00	2.60	2000	(Pb)	
208	Pb	197	2	0.64 ug/l	0.00	0.19	5000	Pb	
209	Bi	197	1	0.01 ug/l	0.00	32.53	2000	Bi	
232	Th	197	2	2.39 ug/l	0.00	8.85	2000	Th	
238	U	197	2	0.01 ug/l	0.00	30.95	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5785102	0.69	5986087	96.6	70 - 140	Li	
45	Sc	1	476966	2.68	509565	93.6	70 - 140	Sc	
45	Sc	2	6632121	1.12	6903232	96.1	70 - 140	Sc	
72	Ge	1	265198	1.98	275046	96.4	70 - 140	Ge	
72	Ge	2	1365457	0.60	1427904	95.6	70 - 140	Ge	
115	In	2	7915265	1.09	8556655	92.5	70 - 140	In	
165	Ho	1	5483896	2.52	6247878	87.8	70 - 140	Ho	
165	Ho	2	10360427	0.70	11326620	91.5	70 - 140	Ho	
197	Au	1	1636836	2.93	2087035	79.4	70 - 140	Au	
197	Au	2	2244341	0.87	2625939	85.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

8 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\020_CCV.D\020_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\020_CCV.D\020_CCV.D#
Date Acquired: Apr 13 2010 03:29 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	95.30 ug/l	0.65	100	95.3	90 - 110	Li	
9 Be	6	2	93.51 ug/l	0.34	100	93.5	90 - 110	Be	
11 B	6	2	204.40 ug/l	1.13	200	102.2	90 - 110	B	
23 Na	45	1	1304.00 ug/l	0.48	1250	104.3	90 - 110	Na	
24 Mg	45	1	2576.00 ug/l	0.89	2500	103.0	90 - 110	Mg	
27 Al	45	1	1271.00 ug/l	0.10	1250	101.7	90 - 110	Al	
28 Si	45	2	1250.00 ug/l	0.58	1250	100.0	90 - 110	Si	
29 Si	45	2	1252.00 ug/l	0.48	1250	100.2	90 - 110	Si	
31 P	45	1	1285.00 ug/l	1.53	1250	102.8	90 - 110	P	
34 S	45	1	20370.00 ug/l	1.25	20000	101.9	90 - 110	S	
34 S	45	2	20940.00 ug/l	0.64	20000	104.7	90 - 110	S	
39 K	45	1	1308.00 ug/l	1.22	1250	104.6	90 - 110	K	
44 Ca	45	2	2549.00 ug/l	0.34	2500	102.0	90 - 110	Ca	
47 Ti	72	2	110.90 ug/l	0.60	100	110.9	90 - 110	Ti	Fail
51 V	72	1	103.10 ug/l	0.48	100	103.1	90 - 110	V	
52 Cr	72	1	100.60 ug/l	0.94	100	100.6	90 - 110	Cr	
55 Mn	72	1	99.97 ug/l	0.47	100	100.0	90 - 110	Mn	
57 Fe	72	1	2562.00 ug/l	0.17	2500	102.5	90 - 110	Fe	
59 Co	72	1	100.70 ug/l	0.39	100	100.7	90 - 110	Co	
60 Ni	72	1	98.69 ug/l	0.30	100	98.7	90 - 110	Ni	
63 Cu	72	1	99.61 ug/l	0.57	100	99.6	90 - 110	Cu	
66 Zn	72	1	98.31 ug/l	1.26	100	98.3	90 - 110	Zn	
75 As	72	1	100.00 ug/l	0.53	100	100.0	90 - 110	As	
78 Se	72	1	99.95 ug/l	1.08	100	100.0	90 - 110	Se	
88 Sr	72	2	102.70 ug/l	0.67	100	102.7	90 - 110	Sr	
89 Y	72	1	103.00 ug/l	1.27	100	103.0	90 - 110	Y	
90 Zr	72	1	97.97 ug/l	1.11	100	98.0	90 - 110	Zr	
93 Nb	72	1	52.47 ug/l	0.81	50	104.9	90 - 110	Nb	
95 Mo	72	2	103.30 ug/l	0.71	100	103.3	90 - 110	Mo	
101 Ru	72	1	102.10 ug/l	0.23	100	102.1	90 - 110	Ru	
103 Rh	72	1	101.70 ug/l	0.64	100	101.7	90 - 110	Rh	
105 Pd	72	1	10.08 ug/l	1.10	10	100.8	90 - 110	Pd	
107 Ag	115	2	19.80 ug/l	0.35	20	99.0	90 - 110	Ag	
111 Cd	115	2	96.36 ug/l	1.40	100	96.4	90 - 110	Cd	
118 Sn	115	2	100.60 ug/l	1.92	100	100.6	90 - 110	Sn	
121 Sb	165	2	48.85 ug/l	1.87	50	97.7	90 - 110	Sb	
125 Te	165	1	96.36 ug/l	1.04	100	96.4	90 - 110	Te	
133 Cs	165	1	98.36 ug/l	0.95	100	98.4	90 - 110	Cs	
137 Ba	165	2	95.28 ug/l	1.04	100	95.3	90 - 110	Ba	
139 La	165	1	100.30 ug/l	1.76	100	100.3	90 - 110	La	
140 Ce	165	1	99.90 ug/l	1.89	100	99.9	90 - 110	Ce	
141 Pr	165	1	99.16 ug/l	1.52	100	99.2	90 - 110	Pr	
146 Nd	165	1	98.12 ug/l	0.31	100	98.1	90 - 110	Nd	
147 Sm	165	2	96.58 ug/l	1.88	100	96.6	90 - 110	Sm	
178 Hf	165	1	91.22 ug/l	0.82	100	91.2	90 - 110	Hf	
181 Ta	165	1	99.81 ug/l	1.30	100	99.8	90 - 110	Ta	
182 W	197	1	102.00 ug/l	1.81	100	102.0	90 - 110	W	
195 Pt	197	1	10.01 ug/l	0.18	10	100.1	90 - 110	Pt	
205 Tl	197	2	101.20 ug/l	0.67	100	101.2	90 - 110	Tl	
206 (Pb)	197	2	101.20 ug/l	0.58	100	101.2	90 - 110	(Pb)	
207 (Pb)	197	2	100.00 ug/l	0.73	100	100.0	90 - 110	(Pb)	
208 Pb	197	2	100.80 ug/l	0.11	100	100.8	90 - 110	Pb	
209 Bi	197	1	105.20 ug/l	0.10	100	105.2	90 - 110	Bi	
232 Th	197	2	89.37 ug/l	0.87	100	89.4	90 - 110	Th	Fail
238 U	197	2	101.00 ug/l	1.23	100	101.0	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6651235	0.26	5986087	111.1	70 - 140	Li	
45 Sc	1	512568	0.33	509565	100.6	70 - 140	Sc	
45 Sc	2	7328166	0.71	6903232	106.2	70 - 140	Sc	
72 Ge	1	292441	1.12	275046	106.3	70 - 140	Ge	
72 Ge	2	1524366	0.52	1427904	106.8	70 - 140	Ge	
115 In	2	9172046	0.81	8556655	107.2	70 - 140	In	
165 Ho	1	6707439	0.78	6247878	107.4	70 - 140	Ho	
165 Ho	2	12394067	0.84	11326620	109.4	70 - 140	Ho	
197 Au	1	2211987	0.30	2087035	106.0	70 - 140	Au	
197 Au	2	2857389	0.37	2625939	108.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\021_CCB.D\021_CCB.D$

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\021_CCB.D\021_CCB.D$
Date Acquired: Apr 13 2010 03:35 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.156	ug/l	92.45	1.35	Li	
9 Be	6	2	-0.003	ug/l	107.28	0.23	Be	
11 B	6	2	10.480	ug/l	4.81	14.94	B	
23 Na	45	1	6.975	ug/l	3.02	10.60	Na	
24 Mg	45	1	0.159	ug/l	69.61	3.46	Mg	
27 Al	45	1	0.106	ug/l	72.82	8.94	Al	
28 Si	45	2	0.065	ug/l	54.54	35.60	Si	
29 Si	45	2	-0.980	ug/l	35.94	35.60	Si	
31 P	45	1	7.646	ug/l	24.89	16.66	P	
34 S	45	1	43.660	ug/l	120.45	666.00	S	
34 S	45	2	74.490	ug/l	11.33	666.00	S	
39 K	45	1	2.346	ug/l	16.18	16.66	K	
44 Ca	45	2	-9.555	ug/l	1.37	97.40	Ca	
47 Ti	72	2	3.113	ug/l	3.09	1.15	Ti	FAIL
51 V	72	1	0.161	ug/l	4.31	4.74	V	
52 Cr	72	1	-0.016	ug/l	41.15	6.52	Cr	
55 Mn	72	1	0.116	ug/l	1.82	0.47	Mn	
57 Fe	72	1	17.650	ug/l	19.64	40.70	Fe	
59 Co	72	1	0.001	ug/l	77.93	0.43	Co	
60 Ni	72	1	-0.007	ug/l	26.82	0.46	Ni	
63 Cu	72	1	0.107	ug/l	3.57	0.19	Cu	
66 Zn	72	1	0.004	ug/l	371.26	7.48	Zn	
75 As	72	1	-0.039	ug/l	48.66	1.89	As	
78 Se	72	1	0.191	ug/l	27.31	0.62	Se	
88 Sr	72	2	0.002	ug/l	34.26	0.23	Sr	
89 Y	72	1	0.003	ug/l	48.46	0.42	Y	
90 Zr	72	1	0.016	ug/l	28.32	0.50	Zr	
93 Nb	72	1	0.018	ug/l	556.22	4.46	Nb	
95 Mo	72	2	1.074	ug/l	4.87	0.43	Mo	FAIL
101 Ru	72	1	0.005	ug/l	69.24	2.00	Ru	
103 Rh	72	1	0.008	ug/l	23.96	1.63	Rh	
105 Pd	72	1	-0.001	ug/l	328.85	0.08	Pd	
107 Ag	115	2	0.005	ug/l	19.43	0.08	Ag	
111 Cd	115	2	0.005	ug/l	75.49	0.11	Cd	
118 Sn	115	2	0.615	ug/l	7.45	0.30	Sn	FAIL
121 Sb	165	2	1.203	ug/l	1.63	2.24	Sb	
125 Te	165	1	0.107	ug/l	47.27	1.07	Te	
133 Cs	165	1	0.023	ug/l	14.61	0.11	Cs	
137 Ba	165	2	0.003	ug/l	58.47	0.39	Ba	
139 La	165	1	0.002	ug/l	9.56	0.10	La	
140 Ce	165	1	0.003	ug/l	55.12	1.77	Ce	
141 Pr	165	1	0.002	ug/l	97.10	0.08	Pr	
146 Nd	165	1	0.002	ug/l	160.56	0.21	Nd	
147 Sm	165	2	0.000	ug/l	123.50	0.65	Sm	
178 Hf	165	1	0.013	ug/l	41.08	2.26	Hf	
181 Ta	165	1	-0.087	ug/l	115.99	1.46	Ta	
182 W	197	1	1.289	ug/l	22.50	1.68	W	
195 Pt	197	1	0.000	ug/l	443.31	0.12	Pt	
205 Tl	197	2	0.328	ug/l	3.42	1.10	Tl	
206 (Pb)	197	2	0.112	ug/l	7.26	2.00	(Pb)	
207 (Pb)	197	2	0.118	ug/l	5.81	2.00	(Pb)	
208 Pb	197	2	0.112	ug/l	6.28	0.35	Pb	
209 Bi	197	1	0.004	ug/l	86.24	1.46	Bi	
232 Th	197	2	-0.982	ug/l	2.05	1.10	Th	
238 U	197	2	0.028	ug/l	10.12	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6734088	1.74	5986087	112.5	70 - 140	Li	
45 Sc	1	525024	0.88	509565	103.0	70 - 140	Sc	
45 Sc	2	7368044	0.40	6903232	106.7	70 - 140	Sc	
72 Ge	1	287681	0.82	275046	104.6	70 - 140	Ge	
72 Ge	2	1491108	0.84	1427904	104.4	70 - 140	Ge	
115 In	2	9126291	0.82	8556655	106.7	70 - 140	In	
165 Ho	1	6626848	0.71	6247878	106.1	70 - 140	Ho	
165 Ho	2	12144198	0.08	11326620	107.2	70 - 140	Ho	
197 Au	1	2205734	1.43	2087035	105.7	70 - 140	Au	
197 Au	2	2796945	0.44	2625939	106.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

3 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\022_PB.D\022_PB.D#
Date Acquired: Apr 13 2010 03:43 pm
Operator:
Sample Name: LXM0LB
Misc Info: 0098071
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-MB
Total Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.189	ug/l	2.55	2.50	Li	
9 Be	6	2	-0.005	ug/l	59.83	0.25	Be	
11 B	6	2	18.980	ug/l	0.95	25.00	B	
23 Na	45	1	27.180	ug/l	1.37	25.00	Na	FAIL
24 Mg	45	1	5.537	ug/l	1.67	25.00	Mg	
27 Al	45	1	7.616	ug/l	2.80	15.00	Al	
28 Si	45	2	46.280	ug/l	2.32	125.00	Si	
29 Si	45	2	48.310	ug/l	3.28	125.00	Si	
31 P	45	1	6.135	ug/l	25.05	25.00	P	
34 S	45	1	143.900	ug/l	28.35	2500.00	S	
34 S	45	2	163.900	ug/l	22.83	2500.00	S	
39 K	45	1	8.227	ug/l	1.01	50.00	K	
44 Ca	45	2	15.550	ug/l	5.68	50.00	Ca	
47 Ti	72	2	2.106	ug/l	2.73	2.50	Ti	
51 V	72	1	0.493	ug/l	4.89	5.00	V	
52 Cr	72	1	0.068	ug/l	4.74	5.00	Cr	
55 Mn	72	1	0.210	ug/l	2.78	1.00	Mn	
57 Fe	72	1	14.970	ug/l	14.40	25.00	Fe	
59 Co	72	1	0.008	ug/l	6.82	1.00	Co	
60 Ni	72	1	0.096	ug/l	4.06	2.50	Ni	
63 Cu	72	1	-0.017	ug/l	14.94	0.50	Cu	
66 Zn	72	1	2.792	ug/l	0.80	2.50	Zn	FAIL
75 As	72	1	0.037	ug/l	22.45	5.00	As	
78 Se	72	1	0.071	ug/l	52.07	2.50	Se	
88 Sr	72	2	0.052	ug/l	5.22	2.50	Sr	
89 Y	72	1	-0.001	ug/l	54.56	2.50	Y	
90 Zr	72	1	0.273	ug/l	3.74	2.50	Zr	
93 Nb	72	1	-0.164	ug/l	43.53	12.50	Nb	
95 Mo	72	2	0.458	ug/l	7.82	2.50	Mo	
101 Ru	72	1	0.002	ug/l	196.18	5.00	Ru	
103 Rh	72	1	0.027	ug/l	4.78	5.00	Rh	
105 Pd	72	1	-0.001	ug/l	227.06	0.25	Pd	
107 Ag	115	2	0.007	ug/l	27.27	1.00	Ag	
111 Cd	115	2	0.002	ug/l	299.80	0.25	Cd	
118 Sn	115	2	0.623	ug/l	1.29	1.00	Sn	
121 Sb	165	2	0.932	ug/l	1.47	2.50	Sb	
125 Te	165	1	-0.009	ug/l	3.42	5.00	Te	
133 Cs	165	1	0.000	ug/l	10190.00	0.05	Cs	
137 Ba	165	2	0.320	ug/l	6.36	1.00	Ba	
139 La	165	1	0.010	ug/l	11.20	1.00	La	
140 Ce	165	1	0.030	ug/l	3.33	5.00	Ce	
141 Pr	165	1	-0.002	ug/l	11.90	1.00	Pr	
146 Nd	165	1	0.003	ug/l	48.12	1.00	Nd	
147 Sm	165	2	-0.003	ug/l	50.38	5.00	Sm	
178 Hf	165	1	0.538	ug/l	5.63	5.00	Hf	
181 Ta	165	1	-0.130	ug/l	80.89	5.00	Ta	
182 W	197	1	0.327	ug/l	51.80	2.50	W	
195 Pt	197	1	0.004	ug/l	28.57	0.50	Pt	
205 Tl	197	2	0.079	ug/l	10.72	1.00	Tl	
206 (Pb)	197	2	0.208	ug/l	2.69	1.50	(Pb)	
207 (Pb)	197	2	0.204	ug/l	5.57	1.50	(Pb)	
208 Pb	197	2	0.203	ug/l	3.00	1.50	Pb	
209 Bi	197	1	0.012	ug/l	15.91	10.00	Bi	
232 Th	197	2	-0.268	ug/l	32.12	1.00	Th	
238 U	197	2	0.003	ug/l	45.66	0.50	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6878230	0.74	5986087	114.9	70 - 140	Li	
45 Sc	1	523415	0.31	509565	102.7	70 - 140	Sc	
45 Sc	2	7325808	1.01	6903232	106.1	70 - 140	Sc	
72 Ge	1	292094	0.59	275046	106.2	70 - 140	Ge	
72 Ge	2	1513810	0.51	1427904	106.0	70 - 140	Ge	
115 In	2	9123658	0.41	8556655	106.6	70 - 140	In	
165 Ho	1	6687527	0.65	6247878	107.0	70 - 140	Ho	
165 Ho	2	12040601	1.18	11326620	106.3	70 - 140	Ho	
197 Au	1	2164272	0.49	2087035	103.7	70 - 140	Au	
197 Au	2	2680657	1.49	2625939	102.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\023_LSS.D\023_LSS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\023_LSS.D\023_LSS.D#
Date Acquired: Apr 13 2010 03:51 pm
Acq. Method: 2010.M
Operator:
Sample Name: LCMOLC
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-LCS_S
Prep Dil. Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element Flag
7	Li	6	2	19.82	2.08	---		-	Li
9	Be	6	2	220.70	1.34	1	22070.0	15880 - 26600	Be
11	B	6	2	287.40	2.46	1	28740.0	17200 - 37200	B
23	Na	45	1	1868.00	0.74	1	186800.0	103800 - 250000	Na
24	Mg	45	1	10550.00	2.31	1	1055000.0	718000 - 1294000	Mg
27	Al	45	1	19110.00	1.69	1	1911000.0	942000 - 3180000	Al
28	Si	45	2	4212.00	1.51	---		-	Si
29	Si	45	2	4096.00	1.83	---		-	Si
31	P	45	1	1725.00	0.53	---		-	P
34	S	45	1	895.80	10.73	---		-	S
34	S	45	2	791.00	2.40	---		-	S
39	K	45	1	8146.00	0.89	1	814600.0	520000 - 1084000	K
44	Ca	45	2	19770.00	0.64	1	1977000.0	1456000 - 2400000	Ca
47	Ti	72	2	1010.00	0.86	1	101000.0	10160 - 169200	Ti
51	V	72	1	444.30	1.49	1	44430.0	28400 - 49200	V
52	Cr	72	1	200.90	1.59	1	20090.0	12380 - 23400	Cr
55	Mn	72	1	1356.00	2.13	1	135600.0	98400 - 154600	Mn
57	Fe	72	1	39630.00	1.44	1	3963000.0	1584000 - 5840000	Fe
59	Co	72	1	620.90	1.19	1	62090.0	41200 - 69600	Co
60	Ni	72	1	221.70	0.85	1	22170.0	14300 - 26200	Ni
63	Cu	72	1	275.70	0.71	1	27570.0	19380 - 32400	Cu
66	Zn	72	1	865.00	0.80	1	86500.0	57200 - 100400	Zn
75	As	72	1	360.60	0.64	1	36060.0	22200 - 40800	As
78	Se	72	1	351.30	1.16	1	35130.0	19880 - 39200	Se
88	Sr	72	2	396.90	0.93	1	39690.0	24800 - 45600	Sr
89	Y	72	1	20.93	0.70	---		-	Y
90	Zr	72	1	18.89	0.56	---		-	Zr
93	Nb	72	1	3.52	3.36	---		-	Nb
95	Mo	72	2	183.20	0.48	1	18320.0	11080 - 21000	Mo
101	Ru	72	1	-0.01	11.35	---		-	Ru
103	Rh	72	1	0.02	8.47	---		-	Rh
105	Pd	72	1	0.06	4.18	---		-	Pd
107	Ag	115	2	140.80	0.65	1	14080.0	8840 - 17540	Ag
111	Cd	115	2	402.60	0.10	1	40260.0	27400 - 47400	Cd
118	Sn	115	2	265.50	1.09	1	26550.0	14380 - 34800	Sn
121	Sb	165	2	151.30	0.64	1	15130.0	4740 - 52200	Sb
125	Te	165	1	0.20	51.20	---		-	Te
133	Cs	165	1	3.26	1.56	---		-	Cs
137	Ba	165	2	736.90	0.31	1	73690.0	51600 - 87600	Ba
139	La	165	1	43.37	2.49	---		-	La
140	Ce	165	1	89.67	2.59	---		-	Ce
141	Pr	165	1	11.16	2.01	---		-	Pr
146	Nd	165	1	42.59	1.66	---		-	Nd
147	Sm	165	2	7.42	0.77	---		-	Sm
178	Hf	165	1	2.05	7.08	---		-	Hf
181	Ta	165	1	-0.38	16.94	---		-	Ta
182	W	197	1	0.67	14.72	---		-	W
195	Pt	197	1	0.01	26.02	---		-	Pt
205	Tl	197	2	641.10	0.90	1	64110.0	37200 - 69800	Tl
206	(Pb)	197	2	383.10	1.53	---		-	(Pb)
207	(Pb)	197	2	378.10	1.96	---		-	(Pb)
208	Pb	197	2	382.60	1.66	1	38260.0	25400 - 43200	Pb
209	Bi	197	1	2.08	1.82	---		-	Bi
232	Th	197	2	26.68	1.09	---		-	Th
238	U	197	2	3.96	1.70	---		-	U

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6516813	1.20	5986087	108.9	70 - 140	Li	
45	Sc	1	538256	0.80	509565	105.6	70 - 140	Sc	
45	Sc	2	7611718	1.06	6903232	110.3	70 - 140	Sc	
72	Ge	1	286287	1.18	275046	104.1	70 - 140	Ge	
72	Ge	2	1451566	0.46	1427904	101.7	70 - 140	Ge	
115	In	2	8839907	2.11	8556655	103.3	70 - 140	In	
165	Ho	1	6654021	1.92	6247878	106.5	70 - 140	Ho	
165	Ho	2	11861402	0.83	11326620	104.7	70 - 140	Ho	
197	Au	1	2143148	1.50	2087035	102.7	70 - 140	Au	
197	Au	2	2642564	0.94	2625939	100.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\024SMPL.D\024SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\024SMPL.D\024SMPL.D#
Date Acquired: Apr 13 2010 03:58 pm
Operator:
Sample Name: LKAHW
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	7.09 ug/l	0.00	2.41	1000	Li	
9	Be	6		2	0.93 ug/l	0.00	2.11	1000	Be	
11	B	6		2	10.97 ug/l	0.00	4.22	2000	B	
23	Na	45		1	377.90 ug/l	0.00	0.87	200000	Na	
24	Mg	45		1	549.20 ug/l	0.00	1.52	200000	Mg	
27	Al	45		1	1909.00 ug/l	0.00	0.86	200000	Al	
28	Si	45		2	2529.00 ug/l	0.00	2.15	200000	Si	
29	Si	45		2	2467.00 ug/l	0.00	1.05	200000	Si	
31	P	45		1	781.00 ug/l	0.00	0.68	200000	P	
34	S	45		1	61.39 ug/l	0.00	141.21	200000	S	
34	S	45		2	-146.60 ug/l	0.00	13.56	200000	S	
39	K	45		1	669.20 ug/l	0.00	0.33	200000	K	
44	Ca	45		2	2332.00 ug/l	0.00	0.61	200000	Ca	
47	Ti	72		2	229.70 ug/l	0.00	1.24	5000	Ti	
51	V	72		1	4.42 ug/l	0.00	1.03	2000	V	
52	Cr	72		1	3.02 ug/l	0.00	0.74	2000	Cr	
55	Mn	72		1	558.50 ug/l	0.00	1.86	5000	Mn	
57	Fe	72		1	10760.00 ug/l	0.00	0.13	200000	Fe	
59	Co	72		1	1.17 ug/l	0.00	1.34	2000	Co	
60	Ni	72		1	4.76 ug/l	0.00	1.47	2000	Ni	
63	Cu	72		1	2.91 ug/l	0.00	1.23	5000	Cu	
66	Zn	72		1	41.32 ug/l	0.00	0.36	5000	Zn	
75	As	72		1	5.12 ug/l	0.00	1.61	2000	As	
78	Se	72		1	10.45 ug/l	0.00	1.17	2000	Se	
88	Sr	72		2	8.00 ug/l	0.00	2.16	5000	Sr	
89	Y	72		1	119.90 ug/l	0.00	0.86	2000	Y	
90	Zr	72		1	12.57 ug/l	0.00	2.28	2000	Zr	
93	Nb	72		1	9.79 ug/l	0.00	5.43	2000	Nb	
95	Mo	72		2	3.31 ug/l	0.00	1.58	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	149.44	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	3.38	2000	Rh	
105	Pd	72		1	0.22 ug/l	0.00	5.89	2000	Pd	
107	Ag	115		2	0.03 ug/l	0.00	2.97	400	Ag	
111	Cd	115		2	0.07 ug/l	0.00	8.53	2000	Cd	
118	Sn	115		2	3.62 ug/l	0.00	2.86	2000	Sn	
121	Sb	165		2	0.94 ug/l	0.00	3.18	1000	Sb	
125	Te	165		1	-0.02 ug/l	0.00	114.86	2000	Te	
133	Cs	165		1	0.35 ug/l	0.00	2.44	2000	Cs	
137	Ba	165		2	25.62 ug/l	0.00	1.53	5000	Ba	
139	La	165		1	138.10 ug/l	0.00	2.25	2000	La	
140	Ce	165		1	310.90 ug/l	0.00	1.59	2000	Ce	
141	Pr	165		1	38.69 ug/l	0.00	2.10	2000	Pr	
146	Nd	165		1	149.20 ug/l	0.00	1.13	2000	Nd	
147	Sm	165		2	28.82 ug/l	0.00	0.67	2000	Sm	
178	Hf	165		1	1.03 ug/l	0.00	8.31	2000	Hf	
181	Ta	165		1	-0.30 ug/l	0.00	21.93	2000	Ta	
182	W	197		1	0.97 ug/l	0.00	9.12	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	41.47	2000	Pt	
205	Tl	197		2	0.96 ug/l	0.00	5.04	2000	Tl	
206	(Pb)	197		2	4.62 ug/l	0.00	2.14	2000	(Pb)	
207	(Pb)	197		2	4.57 ug/l	0.00	2.06	2000	(Pb)	
208	Pb	197		2	4.61 ug/l	0.00	1.72	5000	Pb	
209	Bi	197		1	0.16 ug/l	0.00	4.00	2000	Bi	
232	Th	197		2	10.78 ug/l	0.00	0.90	2000	Th	
238	U	197		2	1.93 ug/l	0.00	1.44	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6830013	0.61	5986087	114.1	70 - 140	Li	
45	Sc	1	528260	0.56	509565	103.7	70 - 140	Sc	
45	Sc	2	7548108	0.80	6903232	109.3	70 - 140	Sc	
72	Ge	1	302560	0.51	275046	110.0	70 - 140	Ge	
72	Ge	2	1528265	1.32	1427904	107.0	70 - 140	Ge	
115	In	2	9035629	0.75	8556655	105.6	70 - 140	In	
165	Ho	1	6823911	1.69	6247878	109.2	70 - 140	Ho	
165	Ho	2	12424564	1.02	11326620	109.7	70 - 140	Ho	
197	Au	1	2130206	0.32	2087035	102.1	70 - 140	Au	
197	Au	2	2654056	0.46	2625939	101.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 C:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0258MPL.D\0258MPL.D#
Date Acquired: Apr 13 2010 04:05 pm
Operator:
Sample Name: LXA8WV
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	0.97 ug/l	0.00	13.44	1000	Li	
9	Be	6		2	0.18 ug/l	0.00	4.80	1000	Be	
11	B	6		2	5.40 ug/l	0.00	1.75	2000	B	
23	Na	45		1	83.76 ug/l	0.00	0.44	200000	Na	
24	Mg	45		1	112.70 ug/l	0.00	2.08	200000	Mg	
27	Al	45		1	394.40 ug/l	0.00	1.12	200000	Al	
28	Si	45		2	514.60 ug/l	0.00	5.32	200000	Si	
29	Si	45		2	483.30 ug/l	0.00	1.18	200000	Si	
31	P	45		1	166.00 ug/l	0.00	2.28	200000	P	
34	S	45		1	-162.70 ug/l	0.00	14.65	200000	S	
34	S	45		2	-300.80 ug/l	0.00	4.83	200000	S	
39	K	45		1	139.30 ug/l	0.00	1.51	200000	K	
44	Ca	45		2	480.80 ug/l	0.00	1.07	200000	Ca	
47	Ti	72		2	47.66 ug/l	0.00	0.25	5000	Ti	
51	V	72		1	0.51 ug/l	0.00	3.49	2000	V	
52	Cr	72		1	0.88 ug/l	0.00	45.05	2000	Cr	
55	Mn	72		1	123.20 ug/l	0.00	0.89	5000	Mn	
57	Fe	72		1	2278.00 ug/l	0.00	0.60	200000	Fe	
59	Co	72		1	0.26 ug/l	0.00	0.74	2000	Co	
60	Ni	72		1	1.23 ug/l	0.00	4.17	2000	Ni	
63	Cu	72		1	0.47 ug/l	0.00	2.72	5000	Cu	
66	Zn	72		1	9.99 ug/l	0.00	0.42	5000	Zn	
75	As	72		1	0.86 ug/l	0.00	5.49	2000	As	
78	Se	72		1	2.20 ug/l	0.00	2.98	2000	Se	
88	Sr	72		2	1.67 ug/l	0.00	1.39	5000	Sr	
89	Y	72		1	25.39 ug/l	0.00	0.99	2000	Y	
90	Zr	72		1	1.29 ug/l	0.00	7.12	2000	Zr	
93	Nb	72		1	1.72 ug/l	0.00	4.36	2000	Nb	
95	Mo	72		2	0.78 ug/l	0.00	3.83	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	10.64	2000	Ru	
103	Rh	72		1	-0.01 ug/l	0.00	5.60	2000	Rh	
105	Pd	72		1	0.04 ug/l	0.00	4.04	2000	Pd	
107	Ag	115		2	0.00 ug/l	0.00	48.51	400	Ag	
111	Cd	115		2	0.01 ug/l	0.00	26.90	2000	Cd	
118	Sn	115		2	0.36 ug/l	0.00	5.18	2000	Sn	
121	Sb	165		2	0.21 ug/l	0.00	5.86	1000	Sb	
125	Te	165		1	-0.01 ug/l	0.00	439.71	2000	Te	
133	Cs	165		1	0.06 ug/l	0.00	5.34	2000	Cs	
137	Ba	165		2	5.38 ug/l	0.00	2.28	5000	Ba	
139	La	165		1	29.72 ug/l	0.00	0.92	2000	La	
140	Ce	165		1	68.80 ug/l	0.00	1.13	2000	Ce	
141	Pr	165		1	8.08 ug/l	0.00	1.60	2000	Pr	
146	Nd	165		1	31.03 ug/l	0.00	1.14	2000	Nd	
147	Sm	165		2	6.06 ug/l	0.00	1.66	2000	Sm	
178	Hf	165		1	-0.09 ug/l	0.00	3.36	2000	Hf	
181	Ta	165		1	-0.59 ug/l	0.00	2.37	2000	Ta	
182	W	197		1	-0.08 ug/l	0.00	68.01	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	37.47	2000	Pt	
205	Tl	197		2	0.15 ug/l	0.00	7.00	2000	Tl	
206	(Pb)	197		2	0.91 ug/l	0.00	1.37	2000	(Pb)	
207	(Pb)	197		2	0.86 ug/l	0.00	2.98	2000	(Pb)	
208	Pb	197		2	0.89 ug/l	0.00	0.92	5000	Pb	
209	Bi	197		1	0.02 ug/l	0.00	6.98	2000	Bi	
232	Th	197		2	-1.27 ug/l	0.00	2.23	2000	Th	
238	U	197		2	0.35 ug/l	0.00	1.51	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6970520	1.65	5986087	116.4	70 - 140	Li	
45	Sc	1	534470	0.24	509565	104.9	70 - 140	Sc	
45	Sc	2	7586089	0.68	6903232	109.9	70 - 140	Sc	
72	Ge	1	298287	0.29	275046	108.4	70 - 140	Ge	
72	Ge	2	1527080	0.07	1427904	106.9	70 - 140	Ge	
115	In	2	9375452	0.74	8556655	109.6	70 - 140	In	
165	Ho	1	6779222	1.06	6247878	108.5	70 - 140	Ho	
165	Ho	2	12278050	1.81	11326620	108.4	70 - 140	Ho	
197	Au	1	2367758	1.83	2087035	113.5	70 - 140	Au	
197	Au	2	2903515	1.79	2625939	110.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\026SMPL.D\026SMPL.D#
Date Acquired: Apr 13 2010 04:12 pm
Operator:
Sample Name: LXA8WX
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	13.43 ug/l	0.00	1.68	1000	Li	
9	Be	6		2	1.07 ug/l	0.00	0.78	1000	Be	
11	B	6		2	5.77 ug/l	0.00	0.98	2000	B	
23	Na	45		1	456.00 ug/l	0.00	0.71	200000	Na	
24	Mg	45		1	1020.00 ug/l	0.00	1.13	200000	Mg	
27	Al	45		1	3351.00 ug/l	0.00	0.17	200000	Al	
28	Si	45		2	3607.00 ug/l	0.00	1.47	200000	Si	
29	Si	45		2	3516.00 ug/l	0.00	0.63	200000	Si	
31	P	45		1	885.70 ug/l	0.00	1.55	200000	P	
34	S	45		1	-87.18 ug/l	0.00	19.87	200000	S	
34	S	45		2	-316.10 ug/l	0.00	2.77	200000	S	
39	K	45		1	1007.00 ug/l	0.00	1.10	200000	K	
44	Ca	45		2	2917.00 ug/l	0.00	0.57	200000	Ca	
47	Ti	72		2	292.70 ug/l	0.00	1.76	5000	Ti	
51	V	72		1	6.98 ug/l	0.00	0.72	2000	V	
52	Cr	72		1	4.53 ug/l	0.00	0.86	2000	Cr	
55	Mn	72		1	759.50 ug/l	0.00	0.58	5000	Mn	
57	Fe	72		1	12950.00 ug/l	0.00	0.44	200000	Fe	
59	Co	72		1	1.67 ug/l	0.00	1.58	2000	Co	
60	Ni	72		1	7.86 ug/l	0.00	1.44	2000	Ni	
63	Cu	72		1	4.32 ug/l	0.00	0.06	5000	Cu	
66	Zn	72		1	51.23 ug/l	0.00	0.82	5000	Zn	
75	As	72		1	5.04 ug/l	0.00	2.00	2000	As	
78	Se	72		1	10.35 ug/l	0.00	2.63	2000	Se	
88	Sr	72		2	11.76 ug/l	0.00	0.13	5000	Sr	
89	Y	72		1	117.00 ug/l	0.00	0.77	2000	Y	
90	Zr	72		1	19.07 ug/l	0.00	0.93	2000	Zr	
93	Nb	72		1	11.69 ug/l	0.00	4.20	2000	Nb	
95	Mo	72		2	3.00 ug/l	0.00	2.32	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	36.53	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	10.18	2000	Rh	
105	Pd	72		1	0.21 ug/l	0.00	4.12	2000	Pd	
107	Ag	115		2	0.04 ug/l	0.00	6.68	400	Ag	
111	Cd	115		2	0.07 ug/l	0.00	1.76	2000	Cd	
118	Sn	115		2	1.51 ug/l	0.00	1.45	2000	Sn	
121	Sb	165		2	0.64 ug/l	0.00	0.70	1000	Sb	
125	Te	165		1	-0.01 ug/l	0.00	333.09	2000	Te	
133	Cs	165		1	0.64 ug/l	0.00	1.32	2000	Cs	
137	Ba	165		2	39.92 ug/l	0.00	1.59	5000	Ba	
139	La	165		1	138.20 ug/l	0.00	1.43	2000	La	
140	Ce	165		1	319.50 ug/l	0.00	1.12	2000	Ce	
141	Pr	165		1	38.23 ug/l	0.00	2.15	2000	Pr	
146	Nd	165		1	146.60 ug/l	0.00	1.91	2000	Nd	
147	Sm	165		2	28.55 ug/l	0.00	1.07	2000	Sm	
178	Hf	165		1	1.20 ug/l	0.00	5.08	2000	Hf	
181	Ta	165		1	-0.34 ug/l	0.00	18.00	2000	Ta	
182	W	197		1	1.05 ug/l	0.00	3.91	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	22.49	2000	Pt	
205	Tl	197		2	0.41 ug/l	0.00	2.54	2000	Tl	
206	(Pb)	197		2	5.89 ug/l	0.00	1.32	2000	(Pb)	
207	(Pb)	197		2	5.81 ug/l	0.00	1.43	2000	(Pb)	
208	Pb	197		2	5.88 ug/l	0.00	1.83	5000	Pb	
209	Bi	197		1	0.17 ug/l	0.00	0.61	2000	Bi	
232	Th	197		2	12.27 ug/l	0.00	2.45	2000	Th	
238	U	197		2	2.04 ug/l	0.00	1.09	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6986543	0.83	5986087	116.7	70 - 140	Li	
45	Sc	1	529363	0.61	509565	103.9	70 - 140	Sc	
45	Sc	2	7606236	0.02	6903232	110.2	70 - 140	Sc	
72	Ge	1	304745	0.60	275046	110.8	70 - 140	Ge	
72	Ge	2	1514186	1.04	1427904	106.0	70 - 140	Ge	
115	In	2	8916371	0.72	8556655	104.2	70 - 140	In	
165	Ho	1	6872934	0.81	6247878	110.0	70 - 140	Ho	
165	Ho	2	12214282	0.95	11326620	107.8	70 - 140	Ho	
197	Au	1	2132325	0.52	2087035	102.2	70 - 140	Au	
197	Au	2	2581432	1.81	2625939	98.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\027SMPL.D\027SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\027SMPL.D\027SMPL.D#
Date Acquired: Apr 13 2010 04:19 pm
Operator:
Sample Name: LXAHWS
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7 Li	6	2	505.60 ug/l	0.00	0.08	1000	Li
9 Be	6	2	446.30 ug/l	0.00	1.74	1000	Be
11 B	6	2	482.20 ug/l	0.00	1.83	2000	B
23 Na	45	1	7718.00 ug/l	0.00	0.29	200000	Na
24 Mg	45	1	6295.00 ug/l	0.00	0.48	200000	Mg
27 Al	45	1	13290.00 ug/l	0.00	0.67	200000	Al
28 Si	45	2	10410.00 ug/l	0.00	0.57	200000	Si
29 Si	45	2	9933.00 ug/l	0.00	0.60	200000	Si
31 P	45	1	1391.00 ug/l	0.00	0.17	200000	P
34 S	45	1	4335.00 ug/l	0.00	2.30	200000	S
34 S	45	2	4793.00 ug/l	0.00	0.13	200000	S
39 K	45	1	9741.00 ug/l	0.00	1.75	200000	K
44 Ca	45	2	8986.00 ug/l	0.00	0.24	200000	Ca
47 Ti	72	2	854.30 ug/l	0.00	1.02	5000	Ti
51 V	72	1	466.80 ug/l	0.00	0.65	2000	V
52 Cr	72	1	453.60 ug/l	0.00	1.41	2000	Cr
55 Mn	72	1	1572.00 ug/l	0.00	0.59	5000	Mn
57 Fe	72	1	16570.00 ug/l	0.00	1.95	200000	Fe
59 Co	72	1	463.50 ug/l	0.00	1.28	2000	Co
60 Ni	72	1	450.30 ug/l	0.00	1.79	2000	Ni
63 Cu	72	1	436.10 ug/l	0.00	0.32	5000	Cu
66 Zn	72	1	489.10 ug/l	0.00	0.82	5000	Zn
75 As	72	1	458.40 ug/l	0.00	0.82	2000	As
78 Se	72	1	438.10 ug/l	0.00	0.50	2000	Se
88 Sr	72	2	498.30 ug/l	0.00	0.53	5000	Sr
89 Y	72	1	132.30 ug/l	0.00	1.80	2000	Y
90 Zr	72	1	680.80 ug/l	0.00	0.70	2000	Zr
93 Nb	72	1	117.70 ug/l	0.00	0.79	2000	Nb
95 Mo	72	2	472.90 ug/l	0.00	0.61	2000	Mo
101 Ru	72	1	0.00 ug/l	0.00	133.18	2000	Ru
103 Rh	72	1	0.04 ug/l	0.00	7.70	2000	Rh
105 Pd	72	1	0.27 ug/l	0.00	2.78	2000	Pd
107 Ag	115	2	46.22 ug/l	0.00	0.79	400	Ag
111 Cd	115	2	464.60 ug/l	0.00	0.40	2000	Cd
118 Sn	115	2	488.20 ug/l	0.00	0.36	2000	Sn
121 Sb	165	2	210.60 ug/l	0.00	0.94	1000	Sb
125 Te	165	1	0.14 ug/l	0.00	42.53	2000	Te
133 Cs	165	1	0.68 ug/l	0.00	3.06	2000	Cs
137 Ba	165	2	520.50 ug/l	0.00	0.43	5000	Ba
139 La	165	1	199.50 ug/l	0.00	0.95	2000	La
140 Ce	165	1	454.60 ug/l	0.00	1.39	2000	Ce
141 Pr	165	1	49.71 ug/l	0.00	1.73	2000	Pr
146 Nd	165	1	184.10 ug/l	0.00	1.22	2000	Nd
147 Sm	165	2	483.50 ug/l	0.00	0.60	2000	Sm
178 Hf	165	1	4.94 ug/l	0.00	1.67	2000	Hf
181 Ta	165	1	1.17 ug/l	0.00	23.34	2000	Ta
182 W	197	1	499.90 ug/l	0.00	1.47	2000	W
195 Pt	197	1	0.02 ug/l	0.00	18.45	2000	Pt
205 Tl	197	2	526.70 ug/l	0.00	0.70	2000	Tl
206 (Pb)	197	2	507.30 ug/l	0.00	1.55	2000	(Pb)
207 (Pb)	197	2	525.90 ug/l	0.00	1.42	2000	(Pb)
208 Pb	197	2	516.00 ug/l	0.00	1.49	5000	Pb
209 Bi	197	1	489.80 ug/l	0.00	0.29	2000	Bi
232 Th	197	2	543.40 ug/l	0.00	0.36	2000	Th
238 U	197	2	557.10 ug/l	0.00	0.82	2000	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6630462	1.25	5986087	111.8	70 - 140	Li	
45 Sc	1	538042	0.67	509563	105.6	70 - 140	Sc	
45 Sc	2	7777578	0.22	6903232	112.7	70 - 140	Sc	
72 Ge	1	306808	0.99	275046	111.5	70 - 140	Ge	
72 Ge	2	1514476	0.85	1427904	106.1	70 - 140	Ge	
115 In	2	8716072	0.24	8556655	101.9	70 - 140	In	
165 Ho	1	6856276	0.62	6247878	109.7	70 - 140	Ho	
165 Ho	2	12208426	0.55	11326620	107.8	70 - 140	Ho	
197 Au	1	2096491	0.24	2087035	100.5	70 - 140	Au	
197 Au	2	2521921	0.59	2625939	96.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\028SMPL.D\028SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\028SMPL.D\028SMPL.D#
Date Acquired: Apr 13 2010 04:26 pm
Operator:
Sample Name: LXAMWA
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	53.25 ug/l	0.00	2.43	1000	Li	
9	Be	6	2	5.11 ug/l	0.00	0.50	1000	Be	
11	B	6	2	468.10 ug/l	0.00	1.75	2000	B	
23	Na	45	1	889.60 ug/l	0.00	0.37	200000	Na	
24	Mg	45	1	1022.00 ug/l	0.00	0.13	200000	Mg	
27	Al	45	1	2097.00 ug/l	0.00	0.72	200000	Al	
28	Si	45	2	5159.00 ug/l	0.00	1.64	200000	Si	
29	Si	45	2	4989.00 ug/l	0.00	1.69	200000	Si	
31	P	45	1	1192.00 ug/l	0.00	0.64	200000	P	
34	S	45	1	-295.70 ug/l	0.00	14.50	200000	S	
34	S	45	2	-549.60 ug/l	0.00	2.29	200000	S	
39	K	45	1	1617.00 ug/l	0.00	1.49	200000	K	
44	Ca	45	2	3231.00 ug/l	0.00	0.99	200000	Ca	
47	Ti	72	2	265.10 ug/l	0.00	0.83	5000	Ti	
51	V	72	1	105.30 ug/l	0.00	0.34	2000	V	
52	Cr	72	1	101.60 ug/l	0.00	0.47	2000	Cr	
55	Mn	72	1	550.10 ug/l	0.00	0.47	5000	Mn	
57	Fe	72	1	10700.00 ug/l	0.00	1.01	200000	Fe	
59	Co	72	1	21.17 ug/l	0.00	1.14	2000	Co	
60	Ni	72	1	52.40 ug/l	0.00	0.91	2000	Ni	
63	Cu	72	1	12.45 ug/l	0.00	0.24	5000	Cu	
66	Zn	72	1	88.67 ug/l	0.00	0.42	5000	Zn	
75	As	72	1	97.45 ug/l	0.00	0.58	2000	As	
78	Se	72	1	53.71 ug/l	0.00	0.76	2000	Se	
88	Sr	72	2	58.85 ug/l	0.00	0.45	5000	Sr	
89	Y	72	1	116.40 ug/l	0.00	0.98	2000	Y	
90	Zr	72	1	67.69 ug/l	0.00	1.66	2000	Zr	
93	Nb	72	1	28.35 ug/l	0.00	2.39	2000	Nb	
95	Mo	72	2	50.34 ug/l	0.00	1.14	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	417.79	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	26.75	2000	Rh	
105	Pd	72	1	0.20 ug/l	0.00	12.50	2000	Pd	
107	Ag	115	2	19.01 ug/l	0.00	1.28	400	Ag	
111	Cd	115	2	4.85 ug/l	0.00	0.90	2000	Cd	
118	Sn	115	2	21.40 ug/l	0.00	0.87	2000	Sn	
121	Sb	165	2	46.16 ug/l	0.00	0.78	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	966.20	2000	Te	
133	Cs	165	1	0.32 ug/l	0.00	1.73	2000	Cs	
137	Ba	165	2	42.42 ug/l	0.00	0.85	5000	Ba	
139	La	165	1	131.50 ug/l	0.00	0.47	2000	La	
140	Ce	165	1	297.20 ug/l	0.00	0.56	2000	Ce	
141	Pr	165	1	36.89 ug/l	0.00	1.52	2000	Pr	
146	Nd	165	1	140.00 ug/l	0.00	1.94	2000	Nd	
147	Sm	165	2	120.80 ug/l	0.00	0.17	2000	Sm	
178	Hf	165	1	1.61 ug/l	0.00	11.62	2000	Hf	
181	Ta	165	1	0.99 ug/l	0.00	29.32	2000	Ta	
182	W	197	1	58.04 ug/l	0.00	1.51	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	15.06	2000	Pt	
205	Tl	197	2	22.08 ug/l	0.00	0.84	2000	Tl	
206	(Pb)	197	2	35.74 ug/l	0.00	1.03	2000	(Pb)	
207	(Pb)	197	2	35.75 ug/l	0.00	0.79	2000	(Pb)	
208	Pb	197	2	36.08 ug/l	0.00	0.48	5000	Pb	
209	Bi	197	1	0.20 ug/l	0.00	3.08	2000	Bi	
232	Th	197	2	43.85 ug/l	0.00	1.36	2000	Th	
238	U	197	2	12.62 ug/l	0.00	1.68	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7155339	1.49	5986087	119.5	70 - 140	Li	
45	Sc	1	513937	0.12	509565	100.9	70 - 140	Sc	
45	Sc	2	7305659	1.05	6903232	108.7	70 - 140	Sc	
72	Ge	1	300074	0.64	275046	109.1	70 - 140	Ge	
72	Ge	2	1528572	0.22	1427904	107.1	70 - 140	Ge	
115	In	2	8980723	0.77	8556655	105.0	70 - 140	In	
165	Ho	1	6858057	0.88	6247878	109.8	70 - 140	Ho	
165	Ho	2	12331391	0.93	11326620	108.9	70 - 140	Ho	
197	Au	1	2165221	0.92	2087035	103.7	70 - 140	Au	
197	Au	2	2604881	0.50	2625939	99.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0298MPL.D\0298MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0298MPL.D\0298MPL.D#
Date Acquired: Apr 13 2010 04:33 pm
Operator:
Sample Name: LKAHB
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	14.84 ug/l	0.00	1.81	1000	Li	
9	Be	6	2	2.41 ug/l	0.00	1.16	1000	Be	
11	B	6	2	17.24 ug/l	0.00	1.96	2000	B	
23	Na	45	1	423.80 ug/l	0.00	0.93	200000	Na	
24	Mg	45	1	3913.00 ug/l	0.00	1.29	200000	Mg	
27	Al	45	1	19200.00 ug/l	0.00	1.51	200000	Al	
28	Si	45	2	7995.00 ug/l	0.00	0.84	200000	Si	
29	Si	45	2	7672.00 ug/l	0.00	0.96	200000	Si	
31	P	45	1	623.90 ug/l	0.00	0.72	200000	P	
34	S	45	1	-124.50 ug/l	0.00	32.89	200000	S	
34	S	45	2	-288.70 ug/l	0.00	6.03	200000	S	
39	K	45	1	2605.00 ug/l	0.00	1.31	200000	K	
44	Ca	45	2	15600.00 ug/l	0.00	1.31	200000	Ca	
47	Ti	72	2	274.40 ug/l	0.00	1.12	5000	Ti	
51	V	72	1	25.70 ug/l	0.00	0.77	2000	V	
52	Cr	72	1	15.48 ug/l	0.00	0.86	2000	Cr	
55	Mn	72	1	921.20 ug/l	0.00	1.05	5000	Mn	
57	Fe	72	1	27130.00 ug/l	0.00	1.05	200000	Fe	
59	Co	72	1	6.91 ug/l	0.00	0.84	2000	Co	
60	Ni	72	1	21.74 ug/l	0.00	0.86	2000	Ni	
63	Cu	72	1	11.12 ug/l	0.00	1.08	5000	Cu	
66	Zn	72	1	72.16 ug/l	0.00	0.17	5000	Zn	
75	As	72	1	13.26 ug/l	0.00	2.01	2000	As	
78	Se	72	1	21.70 ug/l	0.00	2.40	2000	Se	
88	Sr	72	2	69.75 ug/l	0.00	0.75	5000	Sr	
89	Y	72	1	220.90 ug/l	0.00	0.84	2000	Y	
90	Zr	72	1	37.00 ug/l	0.00	0.57	2000	Zr	
93	Nb	72	1	5.23 ug/l	0.00	2.66	2000	Nb	
95	Mo	72	2	11.68 ug/l	0.00	1.39	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	203.48	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	9.80	2000	Rh	
105	Pd	72	1	0.41 ug/l	0.00	0.92	2000	Pd	
107	Ag	115	2	0.09 ug/l	0.00	4.22	400	Ag	
111	Cd	115	2	0.13 ug/l	0.00	5.75	2000	Cd	
118	Sn	115	2	2.36 ug/l	0.00	1.54	2000	Sn	
121	Sb	165	2	1.06 ug/l	0.00	5.46	1000	Sb	
125	Te	165	1	-0.03 ug/l	0.00	73.20	2000	Te	
133	Cs	165	1	4.64 ug/l	0.00	0.23	2000	Cs	
137	Ba	165	2	169.30 ug/l	0.00	0.44	5000	Ba	
139	La	165	1	237.00 ug/l	0.00	0.41	2000	La	
140	Ce	165	1	687.10 ug/l	0.00	1.06	2000	Ce	
141	Pr	165	1	76.01 ug/l	0.00	0.57	2000	Pr	
146	Nd	165	1	311.20 ug/l	0.00	1.08	2000	Nd	
147	Sm	165	2	65.16 ug/l	0.00	0.90	2000	Sm	
178	Hf	165	1	1.05 ug/l	0.00	0.47	2000	Hf	
181	Ta	165	1	-0.50 ug/l	0.00	8.08	2000	Ta	
182	W	197	1	3.60 ug/l	0.00	3.96	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	8.90	2000	Pt	
205	Tl	197	2	4.60 ug/l	0.00	0.86	2000	Tl	
206	(Pb)	197	2	14.71 ug/l	0.00	0.44	2000	(Pb)	
207	(Pb)	197	2	14.06 ug/l	0.00	0.90	2000	(Pb)	
208	Pb	197	2	14.51 ug/l	0.00	1.42	5000	Pb	
209	Bi	197	1	0.84 ug/l	0.00	2.27	2000	Bi	
232	Th	197	2	18.68 ug/l	0.00	1.37	2000	Th	
238	U	197	2	3.25 ug/l	0.00	1.31	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6947175	0.42	5986087	116.1	70 - 140	Li	
45	Sc	1	574328	1.45	509565	112.7	70 - 140	Sc	
45	Sc	2	8322314	0.46	6903232	120.6	70 - 140	Sc	
72	Ge	1	317489	0.17	275046	115.4	70 - 140	Ge	
72	Ge	2	1534317	1.03	1427904	107.5	70 - 140	Ge	
115	In	2	8763053	1.03	8556655	102.4	70 - 140	In	
165	Ho	1	7032595	0.06	6247878	112.6	70 - 140	Ho	
165	Ho	2	12373126	1.07	11326620	109.2	70 - 140	Ho	
197	Au	1	2104763	1.42	2087035	100.8	70 - 140	Au	
197	Au	2	2481617	1.48	2625939	94.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\030SMPL.D\030SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\030SMPL.D\030SMPL.D#
Date Acquired: Apr 13 2010 04:41 pm
Operator:
Sample Name: LXANSS
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	16.43 ug/l	0.00	0.57	1000	Li	
9	Be	6		2	1.70 ug/l	0.00	2.09	1000	Be	
11	B	6		2	17.04 ug/l	0.00	1.21	2000	B	
23	Na	45		1	376.40 ug/l	0.00	1.97	200000	Na	
24	Mg	45		1	3203.00 ug/l	0.00	0.51	200000	Mg	
27	Al	45		1	19550.00 ug/l	0.00	1.06	200000	Al	
28	Si	45		2	7123.00 ug/l	0.00	0.85	200000	Si	
29	Si	45		2	6868.00 ug/l	0.00	0.32	200000	Si	
31	P	45		1	598.20 ug/l	0.00	1.28	200000	P	
34	S	45		1	-294.60 ug/l	0.00	12.44	200000	S	
34	S	45		2	-603.70 ug/l	0.00	4.69	200000	S	
39	K	45		1	2443.00 ug/l	0.00	0.71	200000	K	
44	Ca	45		2	6284.00 ug/l	0.00	0.66	200000	Ca	
47	Ti	72		2	317.20 ug/l	0.00	0.94	5000	Ti	
51	V	72		1	21.89 ug/l	0.00	0.62	2000	V	
52	Cr	72		1	11.45 ug/l	0.00	0.47	2000	Cr	
55	Mn	72		1	771.70 ug/l	0.00	0.70	5000	Mn	
57	Fe	72		1	23890.00 ug/l	0.00	0.68	200000	Fe	
59	Co	72		1	9.74 ug/l	0.00	0.83	2000	Co	
60	Ni	72		1	15.13 ug/l	0.00	0.97	2000	Ni	
63	Cu	72		1	7.56 ug/l	0.00	1.14	5000	Cu	
66	Zn	72		1	65.98 ug/l	0.00	0.61	5000	Zn	
75	As	72		1	23.37 ug/l	0.00	0.66	2000	As	
78	Se	72		1	21.09 ug/l	0.00	3.08	2000	Se	
88	Sr	72		2	45.32 ug/l	0.00	1.05	5000	Sr	
89	Y	72		1	196.50 ug/l	0.00	0.61	2000	Y	
90	Zr	72		1	47.98 ug/l	0.00	1.59	2000	Zr	
93	Nb	72		1	7.88 ug/l	0.00	0.43	2000	Nb	
95	Mo	72		2	7.62 ug/l	0.00	2.17	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	4287.90	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	1.76	2000	Rh	
105	Pd	72		1	0.35 ug/l	0.00	3.03	2000	Pd	
107	Ag	115		2	0.08 ug/l	0.00	2.43	400	Ag	
111	Cd	115		2	1.80 ug/l	0.00	2.47	2000	Cd	
118	Sn	115		2	1.97 ug/l	0.00	2.71	2000	Sn	
121	Sb	165		2	19.63 ug/l	0.00	1.90	1000	Sb	
125	Te	165		1	0.06 ug/l	0.00	116.19	2000	Te	
133	Cs	165		1	3.67 ug/l	0.00	2.22	2000	Cs	
137	Ba	165		2	123.10 ug/l	0.00	3.27	5000	Ba	
139	La	165		1	221.60 ug/l	0.00	2.17	2000	La	
140	Ce	165		1	588.30 ug/l	0.00	2.08	2000	Ce	
141	Pr	165		1	68.24 ug/l	0.00	1.40	2000	Pr	
146	Nd	165		1	273.40 ug/l	0.00	2.00	2000	Nd	
147	Sm	165		2	56.70 ug/l	0.00	2.39	2000	Sm	
178	Hf	165		1	1.54 ug/l	0.00	0.29	2000	Hf	
181	Ta	165		1	-0.44 ug/l	0.00	12.30	2000	Ta	
182	W	197		1	1.93 ug/l	0.00	7.40	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	30.98	2000	Pt	
205	Tl	197		2	22.86 ug/l	0.00	1.17	2000	Tl	
206	(Pb)	197		2	51.72 ug/l	0.00	1.36	2000	(Pb)	
207	(Pb)	197		2	48.57 ug/l	0.00	0.65	2000	(Pb)	
208	Pb	197		2	50.43 ug/l	0.00	0.62	5000	Pb	
209	Bi	197		1	0.85 ug/l	0.00	2.57	2000	Bi	
232	Th	197		2	19.77 ug/l	0.00	3.05	2000	Th	
238	U	197		2	2.92 ug/l	0.00	0.76	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6954926	0.65	5986087	116.2	70 - 140	Li	
45	Sc	1	563317	0.56	509565	110.5	70 - 140	Sc	
45	Sc	2	8265899	0.79	6903232	119.7	70 - 140	Sc	
72	Ge	1	316256	0.53	275046	115.0	70 - 140	Ge	
72	Ge	2	1524167	1.48	1427904	106.7	70 - 140	Ge	
115	In	2	8713979	0.12	8556655	101.8	70 - 140	In	
165	Ho	1	7000932	2.07	6247878	112.1	70 - 140	Ho	
165	Ho	2	12401709	1.87	11326620	109.5	70 - 140	Ho	
197	Au	1	2112448	0.27	2087035	101.2	70 - 140	Au	
197	Au	2	2567830	0.89	2625939	97.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0315MPL.D\0315MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0315MPL.D\0315MPL.D#
Date Acquired: Apr 13 2010 04:48 pm
Operator:
Sample Name: LKAJJ
Misc Info:
Vial Number: 2110
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	18.74 ug/l	0.00	1.68	1000	Li	
9	Be	6		2	0.94 ug/l	0.00	1.91	1000	Be	
11	B	6		2	10.66 ug/l	0.00	2.73	2000	B	
23	Na	45		1	353.90 ug/l	0.00	0.12	200000	Na	
24	Mg	45		1	1602.00 ug/l	0.00	0.90	200000	Mg	
27	Al	45		1	4843.00 ug/l	0.00	0.83	200000	Al	
28	Si	45		2	4512.00 ug/l	0.00	2.56	200000	Si	
29	Si	45		2	4361.00 ug/l	0.00	1.73	200000	Si	
31	P	45		1	645.20 ug/l	0.00	0.54	200000	P	
34	S	45		1	-303.60 ug/l	0.00	16.77	200000	S	
34	S	45		2	-616.70 ug/l	0.00	4.64	200000	S	
39	K	45		1	1133.00 ug/l	0.00	1.35	200000	K	
44	Ca	45		2	2958.00 ug/l	0.00	0.65	200000	Ca	
47	Ti	72		2	200.30 ug/l	0.00	0.81	5000	Ti	
51	V	72		1	8.47 ug/l	0.00	0.87	2000	V	
52	Cr	72		1	5.49 ug/l	0.00	0.23	2000	Cr	
55	Mn	72		1	559.70 ug/l	0.00	0.44	5000	Mn	
57	Fe	72		1	15090.00 ug/l	0.00	0.46	200000	Fe	
59	Co	72		1	2.68 ug/l	0.00	0.55	2000	Co	
60	Ni	72		1	10.04 ug/l	0.00	1.08	2000	Ni	
63	Cu	72		1	4.12 ug/l	0.00	1.29	5000	Cu	
66	Zn	72		1	50.32 ug/l	0.00	0.89	5000	Zn	
75	As	72		1	8.21 ug/l	0.00	0.80	2000	As	
78	Se	72		1	19.42 ug/l	0.00	0.63	2000	Se	
88	Sr	72		2	23.85 ug/l	0.00	0.51	5000	Sr	
89	Y	72		1	173.30 ug/l	0.00	1.63	2000	Y	
90	Zr	72		1	19.84 ug/l	0.00	1.73	2000	Zr	
93	Nb	72		1	5.71 ug/l	0.00	0.79	2000	Nb	
95	Mo	72		2	5.55 ug/l	0.00	1.42	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	481.07	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	82.15	2000	Rh	
105	Pd	72		1	0.30 ug/l	0.00	6.31	2000	Pd	
107	Ag	115		2	0.04 ug/l	0.00	0.87	400	Ag	
111	Cd	115		2	0.06 ug/l	0.00	7.70	2000	Cd	
118	Sn	115		2	1.39 ug/l	0.00	0.67	2000	Sn	
121	Sb	165		2	0.52 ug/l	0.00	3.58	1000	Sb	
125	Te	165		1	-0.03 ug/l	0.00	1.16	2000	Te	
133	Cs	165		1	0.82 ug/l	0.00	1.03	2000	Cs	
137	Ba	165		2	71.13 ug/l	0.00	1.97	5000	Ba	
139	La	165		1	194.90 ug/l	0.00	0.82	2000	La	
140	Ce	165		1	477.30 ug/l	0.00	0.49	2000	Ce	
141	Pr	165		1	59.96 ug/l	0.00	0.71	2000	Pr	
146	Nd	165		1	249.60 ug/l	0.00	1.42	2000	Nd	
147	Sm	165		2	53.81 ug/l	0.00	2.27	2000	Sm	
178	Hf	165		1	0.65 ug/l	0.00	0.28	2000	Hf	
181	Ta	165		1	-0.53 ug/l	0.00	5.63	2000	Ta	
182	W	197		1	1.80 ug/l	0.00	5.12	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	43.95	2000	Pt	
205	Tl	197		2	1.03 ug/l	0.00	2.62	2000	Tl	
206	(Pb)	197		2	8.85 ug/l	0.00	3.33	2000	(Pb)	
207	(Pb)	197		2	8.67 ug/l	0.00	1.57	2000	(Pb)	
208	Pb	197		2	8.82 ug/l	0.00	2.04	5000	Pb	
209	Bi	197		1	0.59 ug/l	0.00	1.10	2000	Bi	
232	Th	197		2	11.13 ug/l	0.00	0.89	2000	Th	
238	U	197		2	2.85 ug/l	0.00	2.03	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7254563	2.05	5986087	121.2	70 - 140	Li	
45	Sc	1	552813	0.86	509565	108.5	70 - 140	Sc	
45	Sc	2	8010895	0.74	6903232	116.0	70 - 140	Sc	
72	Ge	1	318446	0.24	275046	115.8	70 - 140	Ge	
72	Ge	2	1540595	0.24	1427904	107.9	70 - 140	Ge	
115	In	2	8947137	0.54	8556655	104.6	70 - 140	In	
165	Ho	1	7144174	1.05	6247878	114.3	70 - 140	Ho	
165	Ho	2	12701032	1.83	11326620	112.1	70 - 140	Ho	
197	Au	1	2174163	0.94	2087035	104.2	70 - 140	Au	
197	Au	2	2619641	1.58	2625939	99.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\032_CCV.D\032_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\032_CCV.D\032_CCV.D#
Date Acquired: Apr 13 2010 04:55 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	93.95	ug/l	1.85	100	94.0	90 - 110	Li	
9	Be	6	2	91.02	ug/l	1.56	100	91.0	90 - 110	Be	
11	B	6	2	194.80	ug/l	1.42	200	97.4	90 - 110	B	
23	Na	45	1	1304.00	ug/l	0.89	1250	104.3	90 - 110	Na	
24	Mg	45	1	2519.00	ug/l	0.07	2500	100.8	90 - 110	Mg	
27	Al	45	1	1194.00	ug/l	0.75	1250	95.5	90 - 110	Al	
28	Si	45	2	1265.00	ug/l	0.69	1250	101.2	90 - 110	Si	
29	Si	45	2	1259.00	ug/l	1.28	1250	100.7	90 - 110	Si	
31	P	45	1	1196.00	ug/l	0.49	1250	95.7	90 - 110	P	
34	S	45	1	18990.00	ug/l	1.68	20000	95.0	90 - 110	S	
34	S	45	2	20340.00	ug/l	2.45	20000	101.7	90 - 110	S	
39	K	45	1	1255.00	ug/l	0.90	1250	100.4	90 - 110	K	
44	Ca	45	2	2507.00	ug/l	1.21	2500	100.3	90 - 110	Ca	
47	Ti	72	2	101.40	ug/l	1.60	100	101.4	90 - 110	Ti	
51	V	72	1	102.80	ug/l	0.80	100	102.8	90 - 110	V	
52	Cr	72	1	100.10	ug/l	0.70	100	100.1	90 - 110	Cr	
55	Mn	72	1	95.16	ug/l	0.70	100	95.2	90 - 110	Mn	
57	Fe	72	1	2419.00	ug/l	0.81	2500	96.8	90 - 110	Fe	
59	Co	72	1	100.60	ug/l	0.90	100	100.6	90 - 110	Co	
60	Ni	72	1	97.58	ug/l	0.34	100	97.6	90 - 110	Ni	
63	Cu	72	1	98.10	ug/l	0.70	100	98.1	90 - 110	Cu	
66	Zn	72	1	95.76	ug/l	0.41	100	95.8	90 - 110	Zn	
75	As	72	1	99.39	ug/l	0.16	100	99.4	90 - 110	As	
78	Se	72	1	93.52	ug/l	0.70	100	93.5	90 - 110	Se	
88	Sr	72	2	100.30	ug/l	1.22	100	100.3	90 - 110	Sr	
89	Y	72	1	99.65	ug/l	0.96	100	99.7	90 - 110	Y	
90	Zr	72	1	102.80	ug/l	0.82	100	102.8	90 - 110	Zr	
93	Nb	72	1	53.71	ug/l	2.25	50	107.4	90 - 110	Nb	
95	Mo	72	2	97.70	ug/l	1.44	100	97.7	90 - 110	Mo	
101	Ru	72	1	101.20	ug/l	1.03	100	101.2	90 - 110	Ru	
103	Rh	72	1	101.20	ug/l	0.59	100	101.2	90 - 110	Rh	
105	Pd	72	1	10.04	ug/l	1.84	10	100.4	90 - 110	Pd	
107	Ag	115	2	19.44	ug/l	1.10	20	97.2	90 - 110	Ag	
111	Cd	115	2	96.69	ug/l	0.91	100	96.7	90 - 110	Cd	
118	Sn	115	2	100.40	ug/l	0.52	100	100.4	90 - 110	Sn	
121	Sb	165	2	50.73	ug/l	1.13	50	101.5	90 - 110	Sb	
125	Te	165	1	91.64	ug/l	1.59	100	91.6	90 - 110	Te	
133	Cs	165	1	95.55	ug/l	1.31	100	95.6	90 - 110	Cs	
137	Ba	165	2	97.51	ug/l	1.99	100	97.5	90 - 110	Ba	
139	La	165	1	99.64	ug/l	1.77	100	99.6	90 - 110	La	
140	Ce	165	1	98.50	ug/l	1.70	100	98.5	90 - 110	Ce	
141	Pr	165	1	96.66	ug/l	1.29	100	96.7	90 - 110	Pr	
146	Nd	165	1	95.33	ug/l	1.41	100	95.3	90 - 110	Nd	
147	Sm	165	2	96.23	ug/l	0.74	100	96.2	90 - 110	Sm	
178	Hf	165	1	87.06	ug/l	0.95	100	87.1	90 - 110	Hf	Fail
181	Ta	165	1	97.71	ug/l	2.98	100	97.7	90 - 110	Ta	
182	W	197	1	99.45	ug/l	0.60	100	99.5	90 - 110	W	
195	Pt	197	1	9.92	ug/l	1.48	10	99.2	90 - 110	Pt	
205	Tl	197	2	102.50	ug/l	0.87	100	102.5	90 - 110	Tl	
206	(Pb)	197	2	102.40	ug/l	2.08	100	102.4	90 - 110	(Pb)	
207	(Pb)	197	2	101.10	ug/l	2.22	100	101.1	90 - 110	(Pb)	
208	Pb	197	2	103.00	ug/l	1.62	100	103.0	90 - 110	Pb	
209	Bi	197	1	101.00	ug/l	0.56	100	101.0	90 - 110	Bi	
232	Th	197	2	93.60	ug/l	2.02	100	93.6	90 - 110	Th	
238	U	197	2	103.10	ug/l	1.50	100	103.1	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7376432	1.10	5986087	123.2	70 - 140	Li	
45	Sc	1	520310	0.33	509565	102.1	70 - 140	Sc	
45	Sc	2	7559585	0.79	6903232	109.5	70 - 140	Sc	
72	Ge	1	304064	0.62	275046	110.6	70 - 140	Ge	
72	Ge	2	1516156	1.13	1427904	106.2	70 - 140	Ge	
115	In	2	8993412	0.91	8555655	105.1	70 - 140	In	
165	Ho	1	6897748	1.82	6247878	110.4	70 - 140	Ho	
165	Ho	2	11842860	1.32	11326620	104.6	70 - 140	Ho	
197	Au	1	2291590	0.67	2087035	109.8	70 - 140	Au	
197	Au	2	2678132	1.16	2625939	102.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\033_CCB.D\033_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\033_CCB.D\033_CCB.D#
Date Acquired: Apr 13 2010 05:02 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.429	ug/l	41.48	1.35	Li	
9 Be	6	2	0.000	ug/l	1490.10	0.23	Be	
11 B	6	2	5.736	ug/l	1.19	14.94	B	
23 Na	45	1	4.191	ug/l	9.41	10.60	Na	
24 Mg	45	1	0.164	ug/l	13.03	3.46	Mg	
27 Al	45	1	0.016	ug/l	34.06	8.94	Al	
28 Si	45	2	1.302	ug/l	11.42	35.60	Si	
29 Si	45	2	-3.387	ug/l	19.89	35.60	Si	
31 P	45	1	0.008	ug/l	8970.90	16.46	P	
34 S	45	1	-223.300	ug/l	8.54	666.00	S	
34 S	45	2	-417.400	ug/l	1.76	666.00	S	
39 K	45	1	1.588	ug/l	27.48	16.66	K	
44 Ca	45	2	-11.340	ug/l	1.98	97.40	Ca	
47 Ti	72	2	0.538	ug/l	2.73	1.15	Ti	
51 V	72	1	0.388	ug/l	7.55	4.74	V	
52 Cr	72	1	-0.002	ug/l	282.84	6.52	Cr	
55 Mn	72	1	0.036	ug/l	21.02	0.47	Mn	
57 Fe	72	1	6.694	ug/l	25.73	40.70	Fe	
59 Co	72	1	0.001	ug/l	27.84	0.43	Co	
60 Ni	72	1	-0.005	ug/l	205.33	0.46	Ni	
63 Cu	72	1	0.021	ug/l	33.65	0.19	Cu	
66 Zn	72	1	0.004	ug/l	593.10	7.48	Zn	
75 As	72	1	0.020	ug/l	95.88	1.89	As	
78 Se	72	1	0.205	ug/l	39.17	0.62	Se	
88 Sr	72	2	0.008	ug/l	35.21	0.23	Sr	
89 Y	72	1	0.007	ug/l	42.22	0.42	Y	
90 Zr	72	1	0.086	ug/l	8.94	0.50	Zr	
93 Nb	72	1	0.625	ug/l	29.81	4.46	Nb	
95 Mo	72	2	0.216	ug/l	4.21	0.43	Mo	
101 Ru	72	1	0.003	ug/l	100.38	2.00	Ru	
103 Rh	72	1	0.005	ug/l	5.50	1.63	Rh	
105 Pd	72	1	0.001	ug/l	502.55	0.08	Pd	
107 Ag	115	2	0.004	ug/l	22.31	0.08	Ag	
111 Cd	115	2	0.010	ug/l	72.46	0.11	Cd	
118 Sn	115	2	0.311	ug/l	8.99	0.30	Sn	FAIL
121 Sb	165	2	0.520	ug/l	0.87	2.24	Sb	
125 Te	165	1	0.117	ug/l	21.19	1.07	Te	
133 Cs	165	1	0.026	ug/l	18.31	0.11	Cs	
137 Ba	165	2	0.012	ug/l	48.71	0.39	Ba	
139 La	165	1	0.003	ug/l	67.30	0.10	La	
140 Ce	165	1	0.004	ug/l	44.08	1.77	Ce	
141 Pr	165	1	0.003	ug/l	78.65	0.08	Pr	
146 Nd	165	1	0.003	ug/l	85.54	0.21	Nd	
147 Sm	165	2	0.004	ug/l	107.31	0.65	Sm	
178 Hf	165	1	0.124	ug/l	11.35	2.25	Hf	
181 Ta	165	1	-0.168	ug/l	36.86	1.46	Ta	
182 W	197	1	1.199	ug/l	16.54	1.68	W	
195 Pt	197	1	-0.001	ug/l	17.21	0.12	Pt	
205 Tl	197	2	0.432	ug/l	6.85	1.10	Tl	
206 (Pb)	197	2	0.045	ug/l	7.82	2.00	(Pb)	
207 (Pb)	197	2	0.051	ug/l	18.37	2.00	(Pb)	
208 Pb	197	2	0.049	ug/l	8.29	0.35	Pb	
209 Bi	197	1	0.002	ug/l	97.19	1.46	Bi	
232 Th	197	2	-0.388	ug/l	10.47	1.10	Th	
238 U	197	2	0.033	ug/l	16.10	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7331368	1.88	5986087	122.5	70 - 140	Li	
45 Sc	1	521745	0.41	509565	102.4	70 - 140	Sc	
45 Sc	2	7427135	1.05	6903232	107.6	70 - 140	Sc	
72 Ge	1	296105	0.36	275046	107.7	70 - 140	Ge	
72 Ge	2	1469015	0.85	1427904	102.9	70 - 140	Ge	
115 In	2	8750386	1.88	8556655	102.3	70 - 140	In	
165 Ho	1	6827284	1.94	6247878	109.3	70 - 140	Ho	
165 Ho	2	11576411	0.11	11326620	102.2	70 - 140	Ho	
197 Au	1	2273218	0.69	2087035	108.9	70 - 140	Au	
197 Au	2	2606120	0.43	2625939	99.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\hs.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0345MPL.D\0345MPL.D#
Date Acquired: Apr 13 2010 05:09 pm
Operator:
Sample Name: LXAJL
Misc Info:
Vial Number: 2121
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	12.82 ug/l	0.00	3.48	1000	Li	
9 Be	6		2	1.04 ug/l	0.00	0.71	1000	Be	
11 B	6		2	6.15 ug/l	0.00	1.09	2000	B	
23 Na	45		1	264.50 ug/l	0.00	1.51	200000	Na	
24 Mg	45		1	1051.00 ug/l	0.00	2.36	200000	Mg	
27 Al	45		1	3087.00 ug/l	0.00	0.33	200000	Al	
28 Si	45		2	3493.00 ug/l	0.00	1.17	200000	Si	
29 Si	45		2	3402.00 ug/l	0.00	1.44	200000	Si	
31 P	45		1	826.10 ug/l	0.00	1.16	200000	P	
34 S	45		1	-264.90 ug/l	0.00	25.47	200000	S	
34 S	45		2	-545.90 ug/l	0.00	4.41	200000	S	
39 K	45		1	780.20 ug/l	0.00	0.81	200000	K	
44 Ca	45		2	3035.00 ug/l	0.00	0.44	200000	Ca	
47 Ti	72		2	337.90 ug/l	0.00	1.24	5000	Ti	
51 V	72		1	7.72 ug/l	0.00	1.26	2000	V	
52 Cr	72		1	3.11 ug/l	0.00	1.12	2000	Cr	
55 Mn	72		1	694.30 ug/l	0.00	0.66	5000	Mn	
57 Fe	72		1	12180.00 ug/l	0.00	0.89	200000	Fe	
59 Co	72		1	2.19 ug/l	0.00	1.35	2000	Co	
60 Ni	72		1	7.60 ug/l	0.00	0.58	2000	Ni	
63 Cu	72		1	4.84 ug/l	0.00	1.05	5000	Cu	
66 Zn	72		1	68.19 ug/l	0.00	0.81	5000	Zn	
75 As	72		1	4.29 ug/l	0.00	0.74	2000	As	
78 Se	72		1	6.86 ug/l	0.00	3.06	2000	Se	
88 Sr	72		2	8.43 ug/l	0.00	0.51	5000	Sr	
89 Y	72		1	75.92 ug/l	0.00	1.35	2000	Y	
90 Zr	72		1	15.93 ug/l	0.00	3.41	2000	Zr	
93 Nb	72		1	9.85 ug/l	0.00	1.98	2000	Nb	
95 Mo	72		2	2.54 ug/l	0.00	1.79	2000	Mo	
101 Ru	72		1	0.00 ug/l	0.00	92.50	2000	Ru	
103 Rh	72		1	0.80 ug/l	0.00	62.56	2000	Rh	
105 Pd	72		1	0.13 ug/l	0.00	7.56	2000	Pd	
107 Ag	115		2	0.04 ug/l	0.00	9.49	400	Ag	
111 Cd	115		2	0.08 ug/l	0.00	12.12	2000	Cd	
118 Sn	115		2	1.18 ug/l	0.00	1.20	2000	Sn	
121 Sb	165		2	0.38 ug/l	0.00	3.38	1000	Sb	
125 Te	165		1	0.03 ug/l	0.00	105.95	2000	Te	
133 Cs	165		1	0.66 ug/l	0.00	1.13	2000	Cs	
137 Ba	165		2	39.67 ug/l	0.00	0.80	5000	Ba	
139 La	165		1	113.00 ug/l	0.00	0.93	2000	La	
140 Ce	165		1	236.70 ug/l	0.00	0.81	2000	Ce	
141 Pr	165		1	27.85 ug/l	0.00	0.61	2000	Pr	
146 Nd	165		1	104.20 ug/l	0.00	1.21	2000	Nd	
147 Sm	165		2	19.80 ug/l	0.00	0.97	2000	Sm	
178 Hf	165		1	3.15 ug/l	0.00	7.33	2000	Hf	
181 Ta	165		1	-0.22 ug/l	0.00	33.70	2000	Ta	
182 W	197		1	4.78 ug/l	0.00	1.51	2000	W	
195 Pt	197		1	0.01 ug/l	0.00	12.94	2000	Pt	
205 Tl	197		2	0.28 ug/l	0.00	5.12	2000	Tl	
206 (Pb)	197		2	9.01 ug/l	0.00	1.35	2000	(Pb)	
207 (Pb)	197		2	8.71 ug/l	0.00	1.55	2000	(Pb)	
208 Pb	197		2	8.92 ug/l	0.00	0.90	5000	Pb	
209 Bi	197		1	0.72 ug/l	0.00	1.42	2000	Bi	
232 Th	197		2	16.71 ug/l	0.00	1.74	2000	Th	
238 U	197		2	0.95 ug/l	0.00	0.87	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7191513	0.92	5986087	120.1	70 - 140	Li	
45 Sc	1	523261	1.12	509565	102.7	70 - 140	Sc	
45 Sc	2	7576463	0.82	6903232	109.8	70 - 140	Sc	
72 Ge	1	297640	1.40	275046	108.2	70 - 140	Ge	
72 Ge	2	1486424	0.20	1427904	104.1	70 - 140	Ge	
115 In	2	8821446	0.46	8556655	103.1	70 - 140	In	
165 Ho	1	6850929	1.04	6247878	109.7	70 - 140	Ho	
165 Ho	2	11827754	0.79	11326620	104.4	70 - 140	Ho	
197 Au	1	2126743	0.23	2087035	101.9	70 - 140	Au	
197 Au	2	2507930	0.87	2625939	95.5	70 - 140	Au	

Tune File# 1 c:\icpchem\2\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\035SMPL.D\035SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\035SMPL.D\035SMPL.D#
Date Acquired: Apr 13 2010 05:17 pm
Operator:
Sample Name: LXAJP
Misc Info:
Vial Number: 2112
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	15.10 ug/l	0.00	1.58	1000	Li	
9	Be	6		2	0.81 ug/l	0.00	1.75	1000	Be	
11	B	6		2	8.34 ug/l	0.00	3.49	2000	B	
23	Na	45		1	755.60 ug/l	0.00	1.84	200000	Na	
24	Mg	45		1	871.00 ug/l	0.00	1.37	200000	Mg	
27	Al	45		1	2333.00 ug/l	0.00	1.83	200000	Al	
28	Si	45		2	2799.00 ug/l	0.00	2.52	200000	Si	
29	Si	45		2	2768.00 ug/l	0.00	4.18	200000	Si	
31	P	45		1	862.20 ug/l	0.00	1.95	200000	P	
34	S	45		1	-232.80 ug/l	0.00	4.32	200000	S	
34	S	45		2	-457.40 ug/l	0.00	2.65	200000	S	
39	K	45		1	1172.00 ug/l	0.00	2.07	200000	K	
44	Ca	45		2	3429.00 ug/l	0.00	1.10	200000	Ca	
47	Ti	72		2	407.00 ug/l	0.00	1.35	5000	Ti	
51	V	72		1	5.22 ug/l	0.00	1.34	2000	V	
52	Cr	72		1	7.60 ug/l	0.00	1.49	2000	Cr	
55	Mn	72		1	787.50 ug/l	0.00	1.37	5000	Mn	
57	Fe	72		1	11830.00 ug/l	0.00	0.94	200000	Fe	
59	Co	72		1	2.00 ug/l	0.00	0.76	2000	Co	
60	Ni	72		1	6.35 ug/l	0.00	0.78	2000	Ni	
63	Cu	72		1	4.38 ug/l	0.00	0.60	5000	Cu	
66	Zn	72		1	62.44 ug/l	0.00	0.94	5000	Zn	
75	As	72		1	3.65 ug/l	0.00	0.79	2000	As	
78	Se	72		1	5.91 ug/l	0.00	3.22	2000	Se	
88	Sr	72		2	7.84 ug/l	0.00	0.98	5000	Sr	
89	Y	72		1	65.27 ug/l	0.00	0.70	2000	Y	
90	Zr	72		1	15.53 ug/l	0.00	1.35	2000	Zr	
93	Nb	72		1	14.40 ug/l	0.00	2.71	2000	Nb	
95	Mo	72		2	3.25 ug/l	0.00	2.95	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	55.41	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	21.75	2000	Rh	
105	Pd	72		1	0.11 ug/l	0.00	3.35	2000	Pd	
107	Ag	115		2	0.04 ug/l	0.00	4.45	400	Ag	
111	Cd	115		2	0.09 ug/l	0.00	6.84	2000	Cd	
118	Sn	115		2	1.18 ug/l	0.00	3.93	2000	Sn	
121	Sb	165		2	0.48 ug/l	0.00	2.28	1000	Sb	
125	Te	165		1	-0.04 ug/l	0.00	26.69	2000	Te	
133	Cs	165		1	0.47 ug/l	0.00	1.47	2000	Cs	
137	Ba	165		2	38.57 ug/l	0.00	1.87	5000	Ba	
139	La	165		1	113.10 ug/l	0.00	2.10	2000	La	
140	Ce	165		1	256.10 ug/l	0.00	2.03	2000	Ce	
141	Pr	165		1	27.20 ug/l	0.00	2.11	2000	Pr	
146	Nd	165		1	98.24 ug/l	0.00	1.63	2000	Nd	
147	Sm	165		2	17.84 ug/l	0.00	1.70	2000	Sm	
178	Hf	165		1	1.65 ug/l	0.00	7.12	2000	Hf	
181	Ta	165		1	-0.27 ug/l	0.00	19.33	2000	Ta	
182	W	197		1	3.53 ug/l	0.00	2.43	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	17.31	2000	Pt	
205	Tl	197		2	0.32 ug/l	0.00	1.97	2000	Tl	
206	(Pb)	197		2	6.51 ug/l	0.00	2.49	2000	(Pb)	
207	(Pb)	197		2	6.27 ug/l	0.00	1.67	2000	(Pb)	
208	Pb	197		2	6.41 ug/l	0.00	1.32	5000	Pb	
209	Bi	197		1	0.64 ug/l	0.00	1.00	2000	Bi	
232	Th	197		2	13.58 ug/l	0.00	0.91	2000	Th	
238	U	197		2	0.98 ug/l	0.00	2.13	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7086403	1.23	5986087	118.4	70 - 140	Li	
45	Sc	1	523457	1.33	509565	102.7	70 - 140	Sc	
45	Sc	2	7582758	0.77	6903232	109.8	70 - 140	Sc	
72	Ge	1	303675	0.91	275046	110.4	70 - 140	Ge	
72	Ge	2	1490772	1.14	1427904	104.4	70 - 140	Ge	
115	In	2	8734520	1.38	8556655	102.1	70 - 140	In	
165	Ho	1	6703826	1.55	6247878	107.3	70 - 140	Ho	
165	Ho	2	11773242	1.41	11326620	103.9	70 - 140	Ho	
197	Au	1	2142443	0.09	2087035	102.7	70 - 140	Au	
197	Au	2	2502503	1.06	2625939	95.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\036SMPL.D\036SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\036SMPL.D\036SMPL.D#
Date Acquired: Apr 13 2010 05:24 pm
Operator:
Sample Name: LXC9E
Misc Info:
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	24.03 ug/l	0.00	1.26	1000	Li	
9	Be	6	2	1.50 ug/l	0.00	1.62	1000	Be	
11	B	6	2	19.94 ug/l	0.00	1.01	2000	B	
23	Na	45	1	835.10 ug/l	0.00	0.52	200000	Na	
24	Mg	45	1	3422.00 ug/l	0.00	0.96	200000	Mg	
27	Al	45	1	28190.00 ug/l	0.00	1.35	200000	Al	
28	Si	45	2	11440.00 ug/l	0.00	0.69	200000	Si	
29	Si	45	2	10930.00 ug/l	0.00	1.18	200000	Si	
31	P	45	1	794.90 ug/l	0.00	0.48	200000	P	
34	S	45	1	1952.00 ug/l	0.00	3.40	200000	S	
34	S	45	2	1915.00 ug/l	0.00	1.64	200000	S	
39	K	45	1	3072.00 ug/l	0.00	0.72	200000	K	
44	Ca	45	2	40060.00 ug/l	0.00	0.46	200000	Ca	
47	Ti	72	2	637.00 ug/l	0.00	1.37	5000	Ti	
51	V	72	1	36.11 ug/l	0.00	0.51	2000	V	
52	Cr	72	1	27.01 ug/l	0.00	0.54	2000	Cr	
55	Mn	72	1	361.00 ug/l	0.00	1.00	5000	Mn	
57	Fe	72	1	25300.00 ug/l	0.00	1.44	200000	Fe	
59	Co	72	1	6.20 ug/l	0.00	0.81	2000	Co	
60	Ni	72	1	14.76 ug/l	0.00	0.80	2000	Ni	
63	Cu	72	1	29.08 ug/l	0.00	0.70	5000	Cu	
66	Zn	72	1	175.70 ug/l	0.00	0.52	5000	Zn	
75	As	72	1	19.05 ug/l	0.00	0.36	2000	As	
78	Se	72	1	3.44 ug/l	0.00	1.44	2000	Se	
88	Sr	72	2	190.10 ug/l	0.00	0.64	5000	Sr	
89	Y	72	1	29.67 ug/l	0.00	0.74	2000	Y	
90	Zr	72	1	73.43 ug/l	0.00	0.88	2000	Zr	
93	Nb	72	1	9.63 ug/l	0.00	5.23	2000	Nb	
95	Mo	72	2	5.06 ug/l	0.00	1.85	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	77.64	2000	Ru	
103	Rh	72	1	0.02 ug/l	0.00	12.76	2000	Rh	
105	Pd	72	1	0.07 ug/l	0.00	12.58	2000	Pd	
107	Ag	115	2	0.23 ug/l	0.00	3.19	400	Ag	
111	Cd	115	2	0.50 ug/l	0.00	4.88	2000	Cd	
118	Sn	115	2	5.09 ug/l	0.00	0.96	2000	Sn	
121	Sb	165	2	1.69 ug/l	0.00	2.89	1000	Sb	
125	Te	165	1	0.03 ug/l	0.00	89.36	2000	Te	
133	Cs	165	1	2.36 ug/l	0.00	1.56	2000	Cs	
137	Ba	165	2	398.00 ug/l	0.00	0.56	5000	Ba	
139	La	165	1	151.70 ug/l	0.00	1.57	2000	La	
140	Ce	165	1	266.00 ug/l	0.00	1.28	2000	Ce	
141	Pr	165	1	27.98 ug/l	0.00	0.86	2000	Pr	
146	Nd	165	1	83.52 ug/l	0.00	1.12	2000	Nd	
147	Sm	165	2	10.84 ug/l	0.00	0.62	2000	Sm	
178	Hf	165	1	3.41 ug/l	0.00	5.74	2000	Hf	
181	Ta	165	1	-0.13 ug/l	0.00	75.76	2000	Ta	
182	W	197	1	5.34 ug/l	0.00	2.36	2000	W	
195	Pt	197	1	0.02 ug/l	0.00	16.25	2000	Pt	
205	Tl	197	2	0.76 ug/l	0.00	1.28	2000	Tl	
206	(Pb)	197	2	184.80 ug/l	0.00	0.79	2000	(Pb)	
207	(Pb)	197	2	174.20 ug/l	0.00	0.89	2000	(Pb)	
208	Pb	197	2	178.20 ug/l	0.00	1.03	5000	Pb	
209	Bi	197	1	5.09 ug/l	0.00	1.59	2000	Bi	
232	Th	197	2	21.06 ug/l	0.00	1.73	2000	Th	
238	U	197	2	2.05 ug/l	0.00	0.62	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7113473	1.25	5986087	118.8	70 - 140	Li	
45	Sc	1	529647	0.51	509565	103.9	70 - 140	Sc	
45	Sc	2	7820798	0.36	6903232	113.3	70 - 140	Sc	
72	Ge	1	299150	0.16	275046	108.8	70 - 140	Ge	
72	Ge	2	1503450	0.21	1427904	105.3	70 - 140	Ge	
115	In	2	8721182	0.87	8556655	101.9	70 - 140	In	
165	Ho	1	6727687	0.62	6247878	107.7	70 - 140	Ho	
165	Ho	2	11892884	0.49	11326620	105.0	70 - 140	Ho	
197	Au	1	2085195	1.87	2087035	99.9	70 - 140	Au	
197	Au	2	2463905	0.44	2625939	93.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\037SMPL.D\037SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\037SMPL.D\037SMPL.D#
Date Acquired: Apr 13 2010 05:31 pm
Operator:
Sample Name: LXC95
Misc Info:
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	14.71 ug/l	0.00	0.92	1000	Li	
9	Be	6	2	1.95 ug/l	0.00	1.49	1000	Be	
11	B	6	2	8.23 ug/l	0.00	1.00	2000	B	
23	Na	45	1	268.20 ug/l	0.00	1.42	200000	Na	
24	Mg	45	1	3879.00 ug/l	0.00	1.22	200000	Mg	
27	Al	45	1	23700.00 ug/l	0.00	0.82	200000	Al	
28	Si	45	2	9335.00 ug/l	0.00	2.19	200000	Si	
29	Si	45	2	8924.00 ug/l	0.00	1.30	200000	Si	
31	P	45	1	403.90 ug/l	0.00	1.64	200000	P	
34	S	45	1	1013.00 ug/l	0.00	8.85	200000	S	
34	S	45	2	878.50 ug/l	0.00	3.80	200000	S	
39	K	45	1	3896.00 ug/l	0.00	0.04	200000	K	
44	Ca	45	2	28190.00 ug/l	0.00	0.65	200000	Ca	
47	Ti	72	2	1353.00 ug/l	0.00	0.55	5000	Ti	
51	V	72	1	66.19 ug/l	0.00	0.24	2000	V	
52	Cr	72	1	20.25 ug/l	0.00	0.77	2000	Cr	
55	Mn	72	1	990.20 ug/l	0.00	1.07	5000	Mn	
57	Fe	72	1	37760.00 ug/l	0.00	0.53	200000	Fe	
59	Co	72	1	16.51 ug/l	0.00	0.45	2000	Co	
60	Ni	72	1	15.94 ug/l	0.00	0.94	2000	Ni	
63	Cu	72	1	22.95 ug/l	0.00	0.10	5000	Cu	
66	Zn	72	1	118.30 ug/l	0.00	0.99	5000	Zn	
75	As	72	1	12.46 ug/l	0.00	1.22	2000	As	
78	Se	72	1	2.93 ug/l	0.00	2.37	2000	Se	
88	Sr	72	2	123.00 ug/l	0.00	0.65	5000	Sr	
89	Y	72	1	24.70 ug/l	0.00	0.65	2000	Y	
90	Zr	72	1	85.67 ug/l	0.00	0.63	2000	Zr	
93	Nb	72	1	11.00 ug/l	0.00	1.84	2000	Nb	
95	Mo	72	2	2.75 ug/l	0.00	1.41	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	630.48	2000	Ru	
103	Rh	72	1	0.03 ug/l	0.00	1.58	2000	Rh	
105	Pd	72	1	0.06 ug/l	0.00	10.61	2000	Pd	
107	Ag	115	2	0.18 ug/l	0.00	1.52	400	Ag	
111	Cd	115	2	0.27 ug/l	0.00	2.88	2000	Cd	
118	Sn	115	2	3.26 ug/l	0.00	1.25	2000	Sn	
121	Sb	165	2	0.99 ug/l	0.00	0.96	1000	Sb	
125	Te	165	1	0.16 ug/l	0.00	25.36	2000	Te	
133	Cs	165	1	3.00 ug/l	0.00	0.95	2000	Cs	
137	Ba	165	2	283.50 ug/l	0.00	0.70	5000	Ba	
139	La	165	1	65.75 ug/l	0.00	0.25	2000	La	
140	Ce	165	1	138.20 ug/l	0.00	0.06	2000	Ce	
141	Pr	165	1	13.52 ug/l	0.00	0.84	2000	Pr	
146	Nd	165	1	47.59 ug/l	0.00	0.56	2000	Nd	
147	Sm	165	2	5.27 ug/l	0.00	1.01	2000	Sm	
178	Hf	165	1	2.54 ug/l	0.00	2.31	2000	Hf	
181	Ta	165	1	-0.37 ug/l	0.00	19.67	2000	Ta	
182	W	197	1	0.49 ug/l	0.00	14.16	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	13.32	2000	Pt	
205	Tl	197	2	0.70 ug/l	0.00	1.41	2000	Tl	
206	(Pb)	197	2	420.20 ug/l	0.00	0.95	2000	(Pb)	
207	(Pb)	197	2	372.90 ug/l	0.00	1.82	2000	(Pb)	
208	Pb	197	2	391.50 ug/l	0.00	0.89	5000	Pb	
209	Bi	197	1	1.61 ug/l	0.00	0.96	2000	Bi	
232	Th	197	2	18.82 ug/l	0.00	0.90	2000	Th	
238	U	197	2	2.52 ug/l	0.00	1.10	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7347081	1.30	5986087	122.7	70 - 140	Li	
45	Sc	1	541718	0.82	509565	106.3	70 - 140	Sc	
45	Sc	2	7949193	1.15	6903232	115.2	70 - 140	Sc	
72	Ge	1	297120	0.27	275046	108.0	70 - 140	Ge	
72	Ge	2	1512591	1.13	1427904	105.9	70 - 140	Ge	
115	In	2	8869431	0.76	8556653	103.7	70 - 140	In	
165	Ho	1	6832367	0.22	6247878	109.4	70 - 140	Ho	
165	Ho	2	11963417	0.24	11326620	105.6	70 - 140	Ho	
197	Au	1	2134255	1.07	2087035	102.3	70 - 140	Au	
197	Au	2	2537094	0.74	2625939	96.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

c:\ICPCHEM\1\DATA\041310A2.B\0388MPL.D\0388MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0388MPL.D\0388MPL.D#
Date Acquired: Apr 13 2010 05:38 pm
Operator:
Sample Name: LXDCH
Misc Info:
Vial Number: 2203
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	12.76 ug/l	0.00	1.95	1000	Li	
9	Be	6		2	0.74 ug/l	0.00	1.43	1000	Be	
11	B	6		2	6.55 ug/l	0.00	1.25	2000	B	
23	Na	45		1	872.80 ug/l	0.00	0.86	200000	Na	
24	Mg	45		1	1613.00 ug/l	0.00	0.75	200000	Mg	
27	Al	45		1	8281.00 ug/l	0.00	1.53	200000	Al	
28	Si	45		2	5657.00 ug/l	0.00	1.62	200000	Si	
29	Si	45		2	5505.00 ug/l	0.00	1.17	200000	Si	
31	P	45		1	584.30 ug/l	0.00	1.58	200000	P	
34	S	45		1	73.59 ug/l	0.00	50.85	200000	S	
34	S	45		2	-269.80 ug/l	0.00	6.83	200000	S	
39	K	45		1	1485.00 ug/l	0.00	1.55	200000	K	
44	Ca	45		2	4970.00 ug/l	0.00	0.31	200000	Ca	
47	Ti	72		2	332.00 ug/l	0.00	0.84	5000	Ti	
51	V	72		1	15.87 ug/l	0.00	1.26	2000	V	
52	Cr	72		1	8.14 ug/l	0.00	0.53	2000	Cr	
55	Mn	72		1	298.20 ug/l	0.00	1.42	5000	Mn	
57	Fe	72		1	21860.00 ug/l	0.00	1.53	200000	Fe	
59	Co	72		1	3.31 ug/l	0.00	0.35	2000	Co	
60	Ni	72		1	7.76 ug/l	0.00	0.34	2000	Ni	
63	Cu	72		1	7.06 ug/l	0.00	0.49	5000	Cu	
66	Zn	72		1	45.10 ug/l	0.00	0.55	5000	Zn	
75	As	72		1	6.54 ug/l	0.00	1.06	2000	As	
78	Se	72		1	4.70 ug/l	0.00	4.21	2000	Se	
88	Sr	72		2	54.83 ug/l	0.00	1.17	5000	Sr	
89	Y	72		1	51.41 ug/l	0.00	0.61	2000	Y	
90	Zr	72		1	38.37 ug/l	0.00	0.92	2000	Zr	
93	Nb	72		1	9.17 ug/l	0.00	2.30	2000	Nb	
98	Mo	72		2	8.13 ug/l	0.00	0.95	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	275.83	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	90.57	2000	Rh	
105	Pd	72		1	0.10 ug/l	0.00	3.85	2000	Pd	
107	Ag	115		2	0.05 ug/l	0.00	4.27	400	Ag	
111	Cd	115		2	0.08 ug/l	0.00	12.96	2000	Cd	
118	Sn	115		2	2.52 ug/l	0.00	0.46	2000	Sn	
121	Sb	165		2	0.33 ug/l	0.00	1.70	1000	Sb	
125	Te	165		1	-0.03 ug/l	0.00	58.73	2000	Te	
133	Cs	165		1	0.75 ug/l	0.00	2.27	2000	Cs	
137	Ba	165		2	266.40 ug/l	0.00	1.23	5000	Ba	
139	La	165		1	139.20 ug/l	0.00	1.28	2000	La	
140	Ce	165		1	263.70 ug/l	0.00	0.41	2000	Ce	
141	Pr	165		1	30.58 ug/l	0.00	0.97	2000	Pr	
146	Nd	165		1	105.50 ug/l	0.00	1.11	2000	Nd	
147	Sm	165		2	16.15 ug/l	0.00	1.23	2000	Sm	
178	Hf	165		1	1.25 ug/l	0.00	3.33	2000	Hf	
181	Ta	165		1	-0.45 ug/l	0.00	10.82	2000	Ta	
182	W	197		1	1.78 ug/l	0.00	2.26	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	4.21	2000	Pt	
205	Tl	197		2	0.11 ug/l	0.00	3.41	2000	Tl	
206	(Pb)	197		2	5.60 ug/l	0.00	1.05	2000	(Pb)	
207	(Pb)	197		2	8.17 ug/l	0.00	2.74	2000	(Pb)	
208	Pb	197		2	9.44 ug/l	0.00	1.33	5000	Pb	
209	Bi	197		1	0.52 ug/l	0.00	2.32	2000	Bi	
232	Th	197		2	15.17 ug/l	0.00	1.99	2000	Th	
238	U	197		2	1.05 ug/l	0.00	1.90	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7262190	0.86	5985087	121.3	70 - 140	Li	
45	Sc	1	543892	1.06	509565	106.7	70 - 140	Sc	
45	Sc	2	7898863	0.94	6903232	114.4	70 - 140	Sc	
72	Ge	1	305332	0.60	275046	111.0	70 - 140	Ge	
72	Ge	2	1529548	0.59	1427904	107.1	70 - 140	Ge	
115	In	2	8904222	0.75	8556655	104.1	70 - 140	In	
165	Ho	1	6941966	0.06	6247878	111.1	70 - 140	Ho	
165	Ho	2	12309806	1.20	11326620	108.7	70 - 140	Ho	
197	Au	1	2194940	0.82	2087035	105.2	70 - 140	Au	
197	Au	2	2613985	1.15	2625539	99.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\039SMPL.D\039SMPL.D8
Date Acquired: Apr 13 2010 05:45 pm
Operator:
Sample Name: LKDCV
Misc Info:
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	16.38 ug/l	0.00	1.95	1000	Li	
9	Be	6	2	1.14 ug/l	0.00	1.50	1000	Be	
11	B	6	2	6.21 ug/l	0.00	1.54	2000	B	
23	Na	45	1	425.50 ug/l	0.00	0.79	200000	Na	
24	Mg	45	1	3632.00 ug/l	0.00	0.55	200000	Mg	
27	Al	45	1	16520.00 ug/l	0.00	0.63	200000	Al	
28	Si	45	2	8754.00 ug/l	0.00	0.46	200000	Si	
29	Si	45	2	8362.00 ug/l	0.00	0.23	200000	Si	
31	P	45	1	1049.00 ug/l	0.00	0.81	200000	P	
34	S	45	1	178.90 ug/l	0.00	17.16	200000	S	
34	S	45	2	-118.80 ug/l	0.00	1.26	200000	S	
39	K	45	1	2490.00 ug/l	0.00	1.44	200000	K	
44	Ca	45	2	8644.00 ug/l	0.00	0.42	200000	Ca	
47	Ti	72	2	904.70 ug/l	0.00	0.94	5000	Ti	
51	V	72	1	60.42 ug/l	0.00	1.12	2000	V	
52	Cr	72	1	22.94 ug/l	0.00	0.34	2000	Cr	
55	Mn	72	1	706.30 ug/l	0.00	1.07	5000	Mn	
57	Fe	72	1	31890.00 ug/l	0.00	1.24	200000	Fe	
59	Co	72	1	9.78 ug/l	0.00	0.60	2000	Co	
60	Ni	72	1	19.16 ug/l	0.00	0.96	2000	Ni	
63	Cu	72	1	103.30 ug/l	0.00	0.24	5000	Cu	
66	Zn	72	1	199.40 ug/l	0.00	0.59	5000	Zn	
75	As	72	1	9.43 ug/l	0.00	1.02	2000	As	
78	Se	72	1	3.98 ug/l	0.00	2.80	2000	Se	
88	Sr	72	2	71.74 ug/l	0.00	0.87	5000	Sr	
89	Y	72	1	39.12 ug/l	0.00	0.33	2000	Y	
90	Zr	72	1	59.34 ug/l	0.00	0.63	2000	Zr	
93	Nb	72	1	13.01 ug/l	0.00	3.53	2000	Nb	
95	Mo	72	2	3.53 ug/l	0.00	3.31	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	430.29	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	21.04	2000	Rh	
105	Pd	72	1	0.07 ug/l	0.00	17.95	2000	Pd	
107	Ag	115	2	2.13 ug/l	0.00	1.39	400	Ag	
111	Cd	115	2	1.81 ug/l	0.00	1.98	2000	Cd	
118	Sn	115	2	5.01 ug/l	0.00	0.25	2000	Sn	
121	Sb	165	2	6.79 ug/l	0.00	0.43	1000	Sb	
125	Te	165	1	0.01 ug/l	0.00	304.45	2000	Te	
133	Cs	165	1	2.18 ug/l	0.00	2.66	2000	Cs	
137	Ba	165	2	392.50 ug/l	0.00	0.85	5000	Ba	
139	La	165	1	86.06 ug/l	0.00	0.37	2000	La	
140	Ce	165	1	166.00 ug/l	0.00	0.72	2000	Ce	
141	Pr	165	1	18.64 ug/l	0.00	0.66	2000	Pr	
146	Nd	165	1	66.66 ug/l	0.00	0.13	2000	Nd	
147	Sm	165	2	11.40 ug/l	0.00	0.90	2000	Sm	
178	Hf	165	1	1.99 ug/l	0.00	5.25	2000	Hf	
181	Ta	165	1	-0.20 ug/l	0.00	54.90	2000	Ta	
182	W	197	1	1.03 ug/l	0.00	4.68	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	50.69	2000	Pt	
205	Tl	197	2	0.45 ug/l	0.00	2.05	2000	Tl	
206	(Pb)	197	2	177.30 ug/l	0.00	0.37	2000	(Pb)	
207	(Pb)	197	2	165.30 ug/l	0.00	0.83	2000	(Pb)	
208	Pb	197	2	170.50 ug/l	0.00	0.84	5000	Pb	
209	Bi	197	1	5.41 ug/l	0.00	0.93	2000	Bi	
232	Th	197	2	13.51 ug/l	0.00	2.58	2000	Th	
238	U	197	2	3.09 ug/l	0.00	1.29	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7221445	1.15	5986087	120.6	70 - 140	Li	
45	Sc	1	530410	0.50	509565	104.1	70 - 140	Sc	
45	Sc	2	7786681	0.80	6903232	112.8	70 - 140	Sc	
72	Ge	1	298315	0.86	275046	108.5	70 - 140	Ge	
72	Ge	2	1497626	0.52	1427904	104.9	70 - 140	Ge	
115	In	2	8834897	0.51	8556655	103.3	70 - 140	In	
165	Ho	1	6863880	0.70	6247878	109.5	70 - 140	Ho	
165	Ho	2	12131151	0.55	11326620	107.1	70 - 140	Ho	
197	Au	1	2159583	1.00	2087035	103.5	70 - 140	Au	
197	Au	2	2563893	0.86	2625939	97.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D8

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\040SMPL.D\040SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\040SMPL.D\040SMPL.D#
Date Acquired: Apr 13 2010 05:52 pm
Operator:
Sample Name: LXDC2
Misc Info:
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	16.70 ug/l	0.00	2.57	1000	Li	
9	Be	6		2	0.78 ug/l	0.00	1.83	1000	Be	
11	B	6		2	3.07 ug/l	0.00	2.80	2000	B	
23	Na	45		1	820.90 ug/l	0.00	1.03	200000	Na	
24	Mg	45		1	1714.00 ug/l	0.00	0.44	200000	Mg	
27	Al	45		1	11030.00 ug/l	0.00	0.50	200000	Al	
28	Si	45		2	6309.00 ug/l	0.00	1.80	200000	Si	
29	Si	45		2	6076.00 ug/l	0.00	1.04	200000	Si	
31	P	45		1	756.00 ug/l	0.00	0.68	200000	P	
34	S	45		1	503.40 ug/l	0.00	5.41	200000	S	
34	S	45		2	194.20 ug/l	0.00	9.66	200000	S	
39	K	45		1	2111.00 ug/l	0.00	0.48	200000	K	
44	Ca	45		2	4343.00 ug/l	0.00	0.63	200000	Ca	
47	Ti	72		2	460.50 ug/l	0.00	1.22	5000	Ti	
51	V	72		1	19.64 ug/l	0.00	0.71	2000	V	
52	Cr	72		1	10.51 ug/l	0.00	0.81	2000	Cr	
55	Mn	72		1	514.00 ug/l	0.00	0.88	5000	Mn	
57	Fe	72		1	20820.00 ug/l	0.00	1.47	200000	Fe	
59	Co	72		1	3.74 ug/l	0.00	0.87	2000	Co	
60	Ni	72		1	12.04 ug/l	0.00	0.32	2000	Ni	
63	Cu	72		1	39.07 ug/l	0.00	0.52	5000	Cu	
66	Zn	72		1	78.41 ug/l	0.00	0.12	5000	Zn	
75	As	72		1	11.67 ug/l	0.00	0.62	2000	As	
78	Se	72		1	6.55 ug/l	0.00	2.14	2000	Se	
88	Sr	72		2	45.25 ug/l	0.00	0.91	5000	Sr	
89	Y	72		1	69.15 ug/l	0.00	1.22	2000	Y	
90	Zr	72		1	53.39 ug/l	0.00	0.76	2000	Zr	
93	Nb	72		1	16.88 ug/l	0.00	1.11	2000	Nb	
95	Mo	72		2	5.99 ug/l	0.00	0.36	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	57.91	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	15.62	2000	Rh	
105	Pd	72		1	0.12 ug/l	0.00	4.47	2000	Pd	
107	Ag	115		2	0.15 ug/l	0.00	5.63	400	Ag	
111	Cd	115		2	0.34 ug/l	0.00	5.12	2000	Cd	
118	Sn	115		2	3.73 ug/l	0.00	1.76	2000	Sn	
121	Sb	165		2	2.12 ug/l	0.00	1.12	1000	Sb	
125	Te	165		1	-0.01 ug/l	0.00	155.70	2000	Te	
133	Cs	165		1	1.19 ug/l	0.00	1.05	2000	Cs	
137	Ba	165		2	205.70 ug/l	0.00	0.75	5000	Ba	
139	La	165		1	151.60 ug/l	0.00	1.54	2000	La	
140	Ce	165		1	277.30 ug/l	0.00	1.17	2000	Ce	
141	Pr	165		1	34.63 ug/l	0.00	1.74	2000	Pr	
146	Nd	165		1	122.00 ug/l	0.00	1.16	2000	Nd	
147	Sm	165		2	21.34 ug/l	0.00	0.29	2000	Sm	
178	Hf	165		1	1.60 ug/l	0.00	3.24	2000	Hf	
181	Ta	165		1	-0.42 ug/l	0.00	14.11	2000	Ta	
182	W	197		1	1.64 ug/l	0.00	2.79	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	36.74	2000	Pt	
205	Tl	197		2	0.23 ug/l	0.00	4.49	2000	Tl	
206	(Pb)	197		2	33.52 ug/l	0.00	0.81	2000	(Pb)	
207	(Pb)	197		2	31.74 ug/l	0.00	1.07	2000	(Pb)	
208	Pb	197		2	32.76 ug/l	0.00	1.12	5000	Pb	
209	Bi	197		1	4.81 ug/l	0.00	1.00	2000	Bi	
232	Th	197		2	14.31 ug/l	0.00	1.13	2000	Th	
238	U	197		2	2.78 ug/l	0.00	1.75	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7267067	0.89	5986087	121.4	70 - 140	Li	
45	Sc	1	526373	0.60	509565	103.3	70 - 140	Sc	
45	Sc	2	7752118	1.09	6903232	112.3	70 - 140	Sc	
72	Ge	1	302005	0.66	275046	109.8	70 - 140	Ge	
72	Ge	2	1502790	0.61	1427904	105.2	70 - 140	Ge	
115	In	2	8840862	0.68	8556653	103.3	70 - 140	In	
165	Ho	1	6878558	1.07	6247878	110.1	70 - 140	Ho	
165	Ho	2	12168147	0.28	11326620	107.4	70 - 140	Ho	
197	Au	1	2171920	0.55	2087035	104.1	70 - 140	Au	
197	Au	2	2584519	0.55	2625939	98.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\041SMPL.D\041SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\041SMPL.D\041SMPL.D#
Date Acquired: Apr 13 2010 06:00 pm
Operator:
Sample Name: LXDC5
Misc Info:
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	22.24 ug/l	0.00	0.71	1000	Li	
9	Be	6		2	1.37 ug/l	0.00	1.96	1000	Be	
11	B	6		2	3.84 ug/l	0.00	2.33	2000	B	
23	Na	45		1	444.70 ug/l	0.00	0.57	200000	Na	
24	Mg	45		1	7594.00 ug/l	0.00	0.91	200000	Mg	
27	Al	45		1	17010.00 ug/l	0.00	1.26	200000	Al	
28	Si	45		2	7364.00 ug/l	0.00	1.50	200000	Si	
29	Si	45		2	7075.00 ug/l	0.00	2.32	200000	Si	
31	P	45		1	1792.00 ug/l	0.00	0.15	200000	P	
34	S	45		1	-26.46 ug/l	0.00	43.76	200000	S	
34	S	45		2	-233.40 ug/l	0.00	7.87	200000	S	
39	K	45		1	3620.00 ug/l	0.00	0.34	200000	K	
44	Ca	45		2	11650.00 ug/l	0.00	1.04	200000	Ca	
47	Ti	72		2	1177.00 ug/l	0.00	0.95	5000	Ti	
51	V	72		1	113.10 ug/l	0.00	0.42	2000	V	
52	Cr	72		1	27.35 ug/l	0.00	0.28	2000	Cr	
55	Mn	72		1	1217.00 ug/l	0.00	1.02	5000	Mn	
57	Fe	72		1	38830.00 ug/l	0.00	1.86	200000	Fe	
59	Co	72		1	15.66 ug/l	0.00	0.24	2000	Co	
60	Ni	72		1	25.75 ug/l	0.00	0.99	2000	Ni	
63	Cu	72		1	39.31 ug/l	0.00	0.68	5000	Cu	
66	Zn	72		1	148.70 ug/l	0.00	0.43	5000	Zn	
75	As	72		1	4.99 ug/l	0.00	1.23	2000	As	
78	Se	72		1	3.25 ug/l	0.00	1.49	2000	Se	
88	Sr	72		2	95.30 ug/l	0.00	0.19	5000	Sr	
89	Y	72		1	32.91 ug/l	0.00	1.33	2000	Y	
90	Zr	72		1	50.61 ug/l	0.00	0.17	2000	Zr	
93	Nb	72		1	4.82 ug/l	0.00	6.36	2000	Nb	
95	Mo	72		2	1.06 ug/l	0.00	0.88	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	134.88	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	13.27	2000	Rh	
105	Pd	72		1	0.06 ug/l	0.00	12.68	2000	Pd	
107	Ag	115		2	0.15 ug/l	0.00	1.78	600	Ag	
111	Cd	115		2	0.83 ug/l	0.00	2.37	2000	Cd	
118	Sn	115		2	1.66 ug/l	0.00	0.67	2000	Sn	
121	Sb	165		2	0.51 ug/l	0.00	4.20	1000	Sb	
125	Te	165		1	0.04 ug/l	0.00	41.12	2000	Te	
133	Cs	165		1	3.29 ug/l	0.00	1.39	2000	Cs	
137	Ba	165		2	721.50 ug/l	0.00	0.42	5000	Ba	
139	La	165		1	53.43 ug/l	0.00	0.59	2000	La	
140	Ce	165		1	105.00 ug/l	0.00	0.74	2000	Ce	
141	Pr	165		1	13.89 ug/l	0.00	1.25	2000	Pr	
146	Nd	165		1	52.90 ug/l	0.00	1.19	2000	Nd	
147	Sm	165		2	9.94 ug/l	0.00	0.68	2000	Sm	
178	Hf	165		1	1.26 ug/l	0.00	2.90	2000	Hf	
181	Ta	165		1	-0.44 ug/l	0.00	12.97	2000	Ta	
182	W	197		1	0.90 ug/l	0.00	4.21	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	17.38	2000	Pt	
205	Tl	197		2	0.59 ug/l	0.00	1.43	2000	Tl	
206	(Pb)	197		2	59.21 ug/l	0.00	0.57	2000	(Pb)	
207	(Pb)	197		2	54.77 ug/l	0.00	1.07	2000	(Pb)	
208	Pb	197		2	56.76 ug/l	0.00	0.57	5000	Pb	
209	Bi	197		1	0.69 ug/l	0.00	0.70	2000	Bi	
232	Th	197		2	13.91 ug/l	0.00	2.98	2000	Th	
238	U	197		2	2.85 ug/l	0.00	1.63	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7203032	0.42	5986087	120.3	70 - 140	Li	
45	Sc	1	530810	0.54	509565	104.2	70 - 140	Sc	
45	Sc	2	7850502	1.23	6903232	113.7	70 - 140	Sc	
72	Ge	1	293426	0.86	275046	106.7	70 - 140	Ge	
72	Ge	2	1482016	0.38	1427904	103.8	70 - 140	Ge	
115	In	2	8762480	1.33	8566658	102.4	70 - 140	In	
165	Ho	1	6783639	0.75	6247878	108.6	70 - 140	Ho	
165	Ho	2	11832908	0.47	11326620	104.5	70 - 140	Ho	
197	Au	1	2125099	0.61	2087035	101.8	70 - 140	Au	
197	Au	2	2521059	0.58	2625939	96.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\042SMPL.D\042SMPL.D#
Date Acquired: Apr 13 2010 06:07 pm
Operator:
Sample Name: LXDDA
Misc Info:
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7 Li	6		2	16.99 ug/l	0.00	0.38	1000	Li
9 Be	6		2	1.13 ug/l	0.00	0.89	1000	Be
11 B	6		2	5.02 ug/l	0.00	0.60	2000	B
23 Na	45		1	319.50 ug/l	0.00	0.63	200000	Na
24 Mg	45		1	3357.00 ug/l	0.00	0.30	200000	Mg
27 Al	45		1	15620.00 ug/l	0.00	0.30	200000	Al
28 Si	45		2	7814.00 ug/l	0.00	0.94	200000	Si
29 Si	45		2	7621.00 ug/l	0.00	0.36	200000	Si
31 P	45		1	697.80 ug/l	0.00	2.57	200000	P
34 S	45		1	177.40 ug/l	0.00	18.75	200000	S
34 S	45		2	-111.20 ug/l	0.00	11.10	200000	S
39 K	45		1	2681.00 ug/l	0.00	0.81	200000	K
44 Ca	45		2	7330.00 ug/l	0.00	0.15	200000	Ca
47 Ti	72		2	859.40 ug/l	0.00	1.15	5000	Ti
51 V	72		1	59.46 ug/l	0.00	0.66	2000	V
52 Cr	72		1	18.62 ug/l	0.00	0.92	2000	Cr
55 Mn	72		1	979.80 ug/l	0.00	0.41	5000	Mn
57 Fe	72		1	29350.00 ug/l	0.00	0.43	200000	Fe
59 Co	72		1	9.98 ug/l	0.00	0.30	2000	Co
60 Ni	72		1	14.54 ug/l	0.00	0.86	2000	Ni
63 Cu	72		1	94.24 ug/l	0.00	1.04	5000	Cu
66 Zn	72		1	204.50 ug/l	0.00	0.12	5000	Zn
75 As	72		1	8.39 ug/l	0.00	0.70	2000	As
78 Se	72		1	3.81 ug/l	0.00	3.56	2000	Se
88 Sr	72		2	61.82 ug/l	0.00	1.18	5000	Sr
89 Y	72		1	38.08 ug/l	0.00	0.27	2000	Y
90 Zr	72		1	57.07 ug/l	0.00	0.33	2000	Zr
93 Nb	72		1	12.31 ug/l	0.00	1.11	2000	Nb
95 Mo	72		2	3.63 ug/l	0.00	1.04	2000	Mo
101 Ru	72		1	0.00 ug/l	0.00	83.22	2000	Ru
103 Rh	72		1	0.01 ug/l	0.00	8.54	2000	Rh
105 Pd	72		1	0.07 ug/l	0.00	12.70	2000	Pd
107 Ag	115		2	0.34 ug/l	0.00	3.08	400	Ag
111 Cd	115		2	1.62 ug/l	0.00	3.73	2000	Cd
118 Sn	115		2	5.07 ug/l	0.00	1.29	2000	Sn
121 Sb	165		2	6.56 ug/l	0.00	0.83	1000	Sb
125 Te	165		1	0.02 ug/l	0.00	297.57	2000	Te
133 Cs	165		1	2.31 ug/l	0.00	0.69	2000	Cs
137 Ba	165		2	414.10 ug/l	0.00	0.72	5000	Ba
139 La	165		1	83.11 ug/l	0.00	0.37	2000	La
140 Ce	165		1	153.40 ug/l	0.00	0.99	2000	Ce
141 Pr	165		1	17.94 ug/l	0.00	1.00	2000	Pr
146 Nd	165		1	63.68 ug/l	0.00	0.09	2000	Nd
147 Sm	165		2	11.05 ug/l	0.00	0.30	2000	Sm
178 Hf	165		1	1.69 ug/l	0.00	2.78	2000	Hf
181 Ta	165		1	-0.34 ug/l	0.00	28.20	2000	Ta
182 W	197		1	1.21 ug/l	0.00	1.64	2000	W
195 Pt	197		1	0.01 ug/l	0.00	35.14	2000	Pt
205 Tl	197		2	0.58 ug/l	0.00	3.03	2000	Tl
206 (Pb)	197		2	204.60 ug/l	0.00	2.95	2000	(Pb)
207 (Pb)	197		2	192.70 ug/l	0.00	2.67	2000	(Pb)
208 Pb	197		2	196.50 ug/l	0.00	2.56	5000	Pb
209 Bi	197		1	5.85 ug/l	0.00	0.88	2000	Bi
232 Th	197		2	11.99 ug/l	0.00	1.00	2000	Th
238 U	197		2	3.18 ug/l	0.00	1.66	2000	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7131253	0.36	5986087	119.1	70 - 140	Li	
45 Sc	1	522534	0.38	509565	102.5	70 - 140	Sc	
45 Sc	2	7593294	0.17	6903232	110.0	70 - 140	Sc	
72 Ge	1	296015	0.40	275046	107.6	70 - 140	Ge	
72 Ge	2	1491759	0.96	1427904	104.5	70 - 140	Ge	
115 In	2	8886821	1.04	8556655	103.9	70 - 140	In	
165 Ho	1	6819608	0.14	6247878	109.2	70 - 140	Ho	
165 Ho	2	11939388	0.88	11326620	105.4	70 - 140	Ho	
197 Au	1	2152703	0.05	2087035	103.1	70 - 140	Au	
197 Au	2	2557921	0.93	2625939	97.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\043SMPL.D\043SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\043SMPL.D\043SMPL.D#
Date Acquired: Apr 13 2010 06:14 pm
Operator:
Sample Name: LKDE6
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	30.64 ug/l	0.00	1.30	1000	Li	
9	Be	6	2	2.89 ug/l	0.00	1.15	1000	Be	
11	B	6	2	5.24 ug/l	0.00	0.36	2000	B	
23	Na	45	1	1157.00 ug/l	0.00	0.74	200000	Na	
24	Mg	45	1	3637.00 ug/l	0.00	1.07	200000	Mg	
27	Al	45	1	19170.00 ug/l	0.00	1.41	200000	Al	
28	Si	45	2	9161.00 ug/l	0.00	1.69	200000	Si	
29	Si	45	2	8879.00 ug/l	0.00	2.27	200000	Si	
31	P	45	1	449.20 ug/l	0.00	0.60	200000	P	
34	S	45	1	-395.30 ug/l	0.00	18.14	200000	S	
34	S	45	2	-686.00 ug/l	0.00	2.72	200000	S	
39	K	45	1	4338.00 ug/l	0.00	0.85	200000	K	
44	Ca	45	2	5013.00 ug/l	0.00	0.99	200000	Ca	
47	Ti	72	2	471.00 ug/l	0.00	0.56	5000	Ti	
51	V	72	1	24.28 ug/l	0.00	0.23	2000	V	
52	Cr	72	1	38.36 ug/l	0.00	0.82	2000	Cr	
55	Mn	72	1	465.30 ug/l	0.00	2.09	5000	Mn	
57	Fe	72	1	28940.00 ug/l	0.00	1.22	200000	Fe	
59	Co	72	1	4.28 ug/l	0.00	0.15	2000	Co	
60	Ni	72	1	20.90 ug/l	0.00	1.20	2000	Ni	
63	Cu	72	1	21.25 ug/l	0.00	0.60	5000	Cu	
66	Zn	72	1	79.32 ug/l	0.00	0.39	5000	Zn	
75	As	72	1	4.47 ug/l	0.00	1.10	2000	As	
78	Se	72	1	4.35 ug/l	0.00	3.40	2000	Se	
88	Sr	72	2	46.17 ug/l	0.00	1.11	5000	Sr	
89	Y	72	1	33.89 ug/l	0.00	1.24	2000	Y	
90	Zr	72	1	49.54 ug/l	0.00	1.47	2000	Zr	
93	Nb	72	1	7.41 ug/l	0.00	1.17	2000	Nb	
95	Mo	72	2	1.41 ug/l	0.00	1.57	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	1294.70	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	36.89	2000	Rh	
105	Pd	72	1	0.06 ug/l	0.00	12.35	2000	Pd	
107	Ag	115	2	0.16 ug/l	0.00	2.62	400	Ag	
111	Cd	115	2	0.22 ug/l	0.00	5.55	2000	Cd	
118	Sn	115	2	6.89 ug/l	0.00	1.12	2000	Sn	
121	Sb	165	2	0.37 ug/l	0.00	4.84	1000	Sb	
125	Te	165	1	0.00 ug/l	0.00	2558.10	2000	Te	
133	Cs	165	1	1.77 ug/l	0.00	1.74	2000	Cs	
137	Ba	165	2	149.80 ug/l	0.00	0.62	5000	Ba	
139	La	165	1	95.77 ug/l	0.00	0.41	2000	La	
140	Ce	165	1	176.80 ug/l	0.00	1.13	2000	Ce	
141	Pr	165	1	21.81 ug/l	0.00	0.48	2000	Pr	
146	Nd	165	1	78.94 ug/l	0.00	1.05	2000	Nd	
147	Sm	165	2	13.79 ug/l	0.00	0.65	2000	Sm	
178	Hf	165	1	1.50 ug/l	0.00	1.07	2000	Hf	
181	Ta	165	1	-0.53 ug/l	0.00	6.38	2000	Ta	
182	W	197	1	0.72 ug/l	0.00	3.47	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	20.61	2000	Pt	
205	Tl	197	2	0.41 ug/l	0.00	0.59	2000	Tl	
206	(Pb)	197	2	20.36 ug/l	0.00	1.11	2000	(Pb)	
207	(Pb)	197	2	19.44 ug/l	0.00	0.30	2000	(Pb)	
208	Pb	197	2	20.14 ug/l	0.00	0.15	5000	Pb	
209	Bi	197	1	0.24 ug/l	0.00	2.33	2000	Bi	
232	Th	197	2	12.33 ug/l	0.00	0.69	2000	Th	
238	U	197	2	4.69 ug/l	0.00	1.46	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7234355	0.86	5986087	120.9	70 - 140	Li	
45	Sc	1	528779	0.99	509565	103.8	70 - 140	Sc	
45	Sc	2	7835985	1.36	6903252	113.5	70 - 140	Sc	
72	Ge	1	298666	0.30	275046	108.6	70 - 140	Ge	
72	Ge	2	1515061	0.42	1427904	106.1	70 - 140	Ge	
115	In	2	8885743	0.67	8556535	103.8	70 - 140	In	
165	Ho	1	6790325	0.37	6247878	108.7	70 - 140	Ho	
165	Ho	2	12002705	0.63	11326620	106.0	70 - 140	Ho	
197	Au	1	2153471	0.84	2087035	103.2	70 - 140	Au	
197	Au	2	2574517	1.13	2625939	98.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\044_CCV.D\044_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\044_CCV.D\044_CCV.D#
Date Acquired: Apr 13 2010 06:21 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	94.45	ug/l	0.91	100	94.5	90 - 110	Li	
9 Be	6	2	91.09	ug/l	0.16	100	91.1	90 - 110	Be	
11 B	6	2	188.70	ug/l	1.63	200	94.4	90 - 110	B	
23 Na	45	1	1303.00	ug/l	0.38	1250	104.2	90 - 110	Na	
24 Mg	45	1	2541.00	ug/l	0.90	2500	101.6	90 - 110	Mg	
27 Al	45	1	1190.00	ug/l	0.67	1250	95.2	90 - 110	Al	
28 Si	45	2	1253.00	ug/l	1.83	1250	100.2	90 - 110	Si	
29 Si	45	2	1236.00	ug/l	2.00	1250	98.9	90 - 110	Si	
31 P	45	1	1200.00	ug/l	0.53	1250	96.0	90 - 110	P	
34 S	45	1	18830.00	ug/l	0.99	20000	94.2	90 - 110	S	
34 S	45	2	20290.00	ug/l	2.25	20000	101.5	90 - 110	S	
39 K	45	1	1285.00	ug/l	0.42	1250	102.8	90 - 110	K	
44 Ca	45	2	2516.00	ug/l	0.63	2500	100.6	90 - 110	Ca	
47 Ti	72	2	103.40	ug/l	1.40	100	103.4	90 - 110	Ti	
51 V	72	1	103.50	ug/l	0.66	100	103.5	90 - 110	V	
52 Cr	72	1	99.46	ug/l	0.83	100	99.5	90 - 110	Cr	
55 Mn	72	1	95.37	ug/l	0.28	100	95.4	90 - 110	Mn	
57 Fe	72	1	2405.00	ug/l	0.49	2500	96.2	90 - 110	Fe	
59 Co	72	1	99.01	ug/l	1.25	100	99.0	90 - 110	Co	
60 Ni	72	1	97.18	ug/l	0.44	100	97.2	90 - 110	Ni	
63 Cu	72	1	98.55	ug/l	0.18	100	98.6	90 - 110	Cu	
66 Zn	72	1	95.76	ug/l	0.22	100	95.8	90 - 110	Zn	
75 As	72	1	99.62	ug/l	0.15	100	99.6	90 - 110	As	
78 Se	72	1	92.92	ug/l	0.88	100	92.9	90 - 110	Se	
88 Sr	72	2	100.20	ug/l	0.36	100	100.2	90 - 110	Sr	
89 Y	72	1	99.28	ug/l	1.29	100	99.3	90 - 110	Y	
90 Zr	72	1	105.00	ug/l	0.77	100	105.0	90 - 110	Zr	
93 Nb	72	1	51.34	ug/l	1.83	50	102.7	90 - 110	Nb	
95 Mo	72	2	98.33	ug/l	1.54	100	98.3	90 - 110	Mo	
101 Ru	72	1	101.60	ug/l	0.19	100	101.6	90 - 110	Ru	
103 Rh	72	1	101.80	ug/l	0.94	100	101.8	90 - 110	Rh	
105 Pd	72	1	9.98	ug/l	0.31	10	99.8	90 - 110	Pd	
107 Ag	115	2	19.70	ug/l	3.05	20	98.5	90 - 110	Ag	
111 Cd	115	2	97.17	ug/l	2.01	100	97.2	90 - 110	Cd	
118 Sn	115	2	101.20	ug/l	0.69	100	101.2	90 - 110	Sn	
121 Sb	165	2	51.09	ug/l	1.11	50	102.2	90 - 110	Sb	
125 Te	165	1	91.55	ug/l	2.05	100	91.6	90 - 110	Te	
133 Cs	165	1	95.94	ug/l	1.31	100	95.9	90 - 110	Cs	
137 Ba	165	2	98.34	ug/l	2.23	100	98.3	90 - 110	Ba	
139 La	165	1	101.20	ug/l	0.43	100	101.2	90 - 110	La	
140 Ce	165	1	99.98	ug/l	1.03	100	100.0	90 - 110	Ce	
141 Pr	165	1	98.04	ug/l	1.00	100	98.0	90 - 110	Pr	
146 Nd	165	1	95.74	ug/l	1.38	100	95.7	90 - 110	Nd	
147 Sm	165	2	97.42	ug/l	1.59	100	97.4	90 - 110	Sm	
178 Hf	165	1	87.57	ug/l	0.70	100	87.6	90 - 110	Hf	Fail
181 Ta	165	1	100.20	ug/l	2.09	100	100.2	90 - 110	Ta	
182 W	197	1	96.92	ug/l	1.89	100	96.9	90 - 110	W	
195 Pt	197	1	9.67	ug/l	1.00	10	96.7	90 - 110	Pt	
205 Tl	197	2	103.80	ug/l	3.33	100	103.8	90 - 110	Tl	
206 (Pb)	197	2	105.30	ug/l	2.92	100	105.3	90 - 110	(Pb)	
207 (Pb)	197	2	104.10	ug/l	4.32	100	104.1	90 - 110	(Pb)	
208 Pb	197	2	105.30	ug/l	3.10	100	105.3	90 - 110	Pb	
209 Bi	197	1	100.40	ug/l	0.92	100	100.4	90 - 110	Bi	
232 Th	197	2	92.81	ug/l	0.39	100	92.8	90 - 110	Th	
238 U	197	2	102.50	ug/l	1.44	100	102.5	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7220746	1.45	5986087	120.6	70 - 140	Li	
45 Sc	1	509822	0.50	509565	100.1	70 - 140	Sc	
45 Sc	2	7478718	0.90	6903232	108.3	70 - 140	Sc	
72 Ge	1	300257	0.38	275046	109.2	70 - 140	Ge	
72 Ge	2	1490787	0.89	1427904	104.4	70 - 140	Ge	
115 In	2	8942050	1.54	8556655	104.5	70 - 140	In	
165 Ho	1	6780594	0.81	6247878	108.5	70 - 140	Ho	
165 Ho	2	11650991	1.87	11326620	102.9	70 - 140	Ho	
197 Au	1	2304536	1.03	2087035	110.4	70 - 140	Au	
197 Au	2	2684153	1.03	2625939	102.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\045_CCB.D\045_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\045_CCB.D\045_CCB.D#
Date Acquired: Apr 13 2010 06:28 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element Flag
7 Li	6	2	-0.436	ug/l	26.22	1.35	Li
9 Be	6	2	-0.007	ug/l	13.54	0.23	Be
11 B	6	2	1.113	ug/l	12.64	14.94	B
23 Na	45	1	3.128	ug/l	9.25	10.60	Na
24 Mg	45	1	0.097	ug/l	18.56	3.46	Mg
27 Al	45	1	-0.027	ug/l	121.38	8.94	Al
28 Si	45	2	2.251	ug/l	7.39	35.60	Si
29 Si	45	2	-3.432	ug/l	12.97	35.60	Si
31 P	45	1	-0.360	ug/l	209.27	16.46	P
34 S	45	1	-291.600	ug/l	21.49	666.00	S
34 S	45	2	-504.600	ug/l	2.95	666.00	S
39 K	45	1	0.110	ug/l	50.38	16.66	K
44 Ca	45	2	-14.150	ug/l	2.26	97.40	Ca
47 Ti	72	2	0.572	ug/l	4.58	1.15	Ti
51 V	72	1	0.316	ug/l	4.54	4.74	V
52 Cr	72	1	-0.005	ug/l	40.62	6.52	Cr
55 Mn	72	1	0.021	ug/l	19.26	0.47	Mn
57 Fe	72	1	6.688	ug/l	20.89	40.70	Fe
59 Co	72	1	-0.002	ug/l	19.98	0.43	Co
60 Ni	72	1	-0.004	ug/l	70.33	0.46	Ni
63 Cu	72	1	-0.012	ug/l	58.12	0.19	Cu
66 Zn	72	1	-0.004	ug/l	236.24	7.48	Zn
75 As	72	1	0.022	ug/l	128.74	1.89	As
78 Se	72	1	0.136	ug/l	29.99	0.62	Se
88 Sr	72	2	0.001	ug/l	72.11	0.23	Sr
89 Y	72	1	0.002	ug/l	222.82	0.42	Y
90 Zr	72	1	0.047	ug/l	18.07	0.50	Zr
93 Nb	72	1	0.270	ug/l	47.26	4.46	Nb
95 Mo	72	2	0.169	ug/l	15.69	0.43	Mo
101 Ru	72	1	0.002	ug/l	181.38	2.00	Ru
103 Rh	72	1	0.001	ug/l	208.42	1.63	Rh
105 Pd	72	1	0.000	ug/l	212.65	0.08	Pd
107 Ag	115	2	0.001	ug/l	85.69	0.08	Ag
111 Cd	115	2	0.000	ug/l	1182.90	0.11	Cd
118 Sn	115	2	0.122	ug/l	12.40	0.30	Sn
121 Sb	165	2	0.255	ug/l	4.35	2.26	Sb
125 Te	165	1	0.194	ug/l	42.00	1.07	Te
133 Cs	165	1	0.034	ug/l	16.29	0.11	Cs
137 Ba	165	2	0.002	ug/l	170.16	0.39	Ba
139 La	165	1	0.001	ug/l	72.49	0.10	La
140 Ce	165	1	0.002	ug/l	88.70	1.77	Ce
141 Pr	165	1	0.001	ug/l	50.14	0.08	Pr
146 Nd	165	1	0.001	ug/l	152.62	0.21	Nd
147 Sm	165	2	0.001	ug/l	202.27	0.65	Sm
178 Hf	165	1	0.048	ug/l	4.01	2.26	Hf
181 Ta	165	1	-0.216	ug/l	35.88	1.46	Ta
182 W	197	1	1.085	ug/l	16.00	1.68	W
195 Pt	197	1	-0.001	ug/l	19.25	0.12	Pt
205 Tl	197	2	0.332	ug/l	8.45	1.10	Tl
206 (Pb)	197	2	0.037	ug/l	11.30	2.00	(Pb)
207 (Pb)	197	2	0.039	ug/l	8.23	2.00	(Pb)
208 Pb	197	2	0.038	ug/l	8.20	0.35	Pb
209 Bi	197	1	-0.003	ug/l	31.72	1.46	Bi
232 Th	197	2	-0.654	ug/l	5.43	1.10	Th
238 U	197	2	0.025	ug/l	13.70	0.16	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6 Li	2	7420547	1.73	5986087	124.0	70 - 140	Li
45 Sc	1	516730	1.21	509565	101.4	70 - 140	Sc
45 Sc	2	7441584	0.59	6903232	107.8	70 - 140	Sc
72 Ge	1	292970	0.57	275046	106.5	70 - 140	Ge
72 Ge	2	1461681	0.77	1427904	102.4	70 - 140	Ge
115 In	2	8770741	1.03	8556655	102.5	70 - 140	In
165 Ho	1	6648822	0.64	6247878	106.4	70 - 140	Ho
165 Ho	2	11710199	1.45	11326620	103.4	70 - 140	Ho
197 Au	1	2265950	0.83	2087035	108.6	70 - 140	Au
197 Au	2	2632784	1.58	2625939	100.3	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\046SMPL.D\046SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\046SMPL.D\046SMPL.D#
Date Acquired: Apr 13 2010 06:36 pm
Operator:
Sample Name: LXDFN
Misc Info:
Vial Number: 2209
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	26.31 ug/l	0.00	1.24	1000	Li	
9	Be	6	2	2.33 ug/l	0.00	1.10	1000	Be	
11	B	6	2	14.60 ug/l	0.00	1.71	2000	B	
23	Na	45	1	400.10 ug/l	0.00	0.41	200000	Na	
24	Mg	45	1	4585.00 ug/l	0.00	1.95	200000	Mg	
27	Al	45	1	22120.00 ug/l	0.00	1.16	200000	Al	
28	Si	45	2	10180.00 ug/l	0.00	2.68	200000	Si	
29	Si	45	2	9691.00 ug/l	0.00	2.72	200000	Si	
31	P	45	1	868.10 ug/l	0.00	0.67	200000	P	
34	S	45	1	328.80 ug/l	0.00	13.46	200000	S	
34	S	45	2	-60.69 ug/l	0.00	82.95	200000	S	
39	K	45	1	4999.00 ug/l	0.00	0.91	200000	K	
44	Ca	45	2	9734.00 ug/l	0.00	1.55	200000	Ca	
47	Ti	72	2	786.90 ug/l	0.00	0.93	5000	Ti	
51	V	72	1	45.03 ug/l	0.00	0.34	2000	V	
52	Cr	72	1	22.07 ug/l	0.00	0.73	2000	Cr	
55	Mn	72	1	778.90 ug/l	0.00	1.71	5000	Mn	
57	Fe	72	1	34400.00 ug/l	0.00	2.02	200000	Fe	
59	Co	72	1	9.56 ug/l	0.00	1.74	2000	Co	
60	Ni	72	1	17.03 ug/l	0.00	0.83	2000	Ni	
63	Cu	72	1	99.32 ug/l	0.00	0.46	5000	Cu	
66	Zn	72	1	307.90 ug/l	0.00	0.53	5000	Zn	
75	As	72	1	7.40 ug/l	0.00	1.19	2000	As	
78	Se	72	1	3.39 ug/l	0.00	3.51	2000	Se	
88	Sr	72	2	70.18 ug/l	0.00	1.36	5000	Sr	
89	Y	72	1	30.73 ug/l	0.00	0.94	2000	Y	
90	Zr	72	1	70.51 ug/l	0.00	0.61	2000	Zr	
93	Nb	72	1	18.68 ug/l	0.00	2.33	2000	Nb	
95	Mo	72	2	2.49 ug/l	0.00	1.04	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	143.78	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	10.43	2000	Rh	
105	Pd	72	1	0.06 ug/l	0.00	16.72	2000	Pd	
107	Ag	115	2	0.53 ug/l	0.00	3.58	400	Ag	
111	Cd	115	2	1.03 ug/l	0.00	1.09	2000	Cd	
118	Sn	115	2	9.30 ug/l	0.00	0.61	2000	Sn	
121	Sb	165	2	0.59 ug/l	0.00	1.95	1000	Sb	
125	Te	165	1	0.02 ug/l	0.00	116.99	2000	Te	
133	Cs	165	1	2.72 ug/l	0.00	2.77	2000	Cs	
137	Ba	165	2	418.90 ug/l	0.00	2.32	5000	Ba	
139	La	165	1	66.55 ug/l	0.00	2.21	2000	La	
140	Ce	165	1	139.80 ug/l	0.00	1.93	2000	Ce	
141	Pr	165	1	15.00 ug/l	0.00	2.96	2000	Pr	
146	Nd	165	1	54.18 ug/l	0.00	1.98	2000	Nd	
147	Sm	165	2	5.66 ug/l	0.00	1.05	2000	Sm	
178	Hf	165	1	6.30 ug/l	0.00	3.37	2000	Hf	
181	Ta	165	1	0.62 ug/l	0.00	37.77	2000	Ta	
182	W	197	1	2.52 ug/l	0.00	2.90	2000	W	
195	Pt	197	1	0.03 ug/l	0.00	11.34	2000	Pt	
205	Tl	197	2	0.67 ug/l	0.00	1.39	2000	Tl	
206	(Pb)	197	2	82.14 ug/l	0.00	2.46	2000	(Pb)	
207	(Pb)	197	2	77.42 ug/l	0.00	2.74	2000	(Pb)	
208	Pb	197	2	79.34 ug/l	0.00	1.44	5000	Pb	
209	Bi	197	1	0.82 ug/l	0.00	0.98	2000	Bi	
232	Th	197	2	16.20 ug/l	0.00	1.13	2000	Th	
238	U	197	2	12.88 ug/l	0.00	0.92	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7231729	0.51	5986087	120.8	70 - 140	Li	
45	Sc	1	529029	0.65	509565	103.8	70 - 140	Sc	
45	Sc	2	7910287	1.96	6903232	114.6	70 - 140	Sc	
72	Ge	1	294656	0.97	275046	107.1	70 - 140	Ge	
72	Ge	2	1501296	0.51	1427904	105.1	70 - 140	Ge	
115	In	2	8817572	0.53	8556655	103.0	70 - 140	In	
165	Ho	1	6823318	1.68	6247878	109.2	70 - 140	Ho	
165	Ho	2	12073267	1.69	11326620	106.6	70 - 140	Ho	
197	Au	1	2181318	0.46	2087035	104.5	70 - 140	Au	
197	Au	2	2562612	1.13	2625939	97.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\047SMPL.D\047SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\047SMPL.D\047SMPL.D#
Date Acquired: Apr 13 2010 06:43 pm
Operator:
Sample Name: LXDPE
Misc Info:
Vial Number: 2210
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	27.33 ug/l	0.00	1.19	1000	Li	
9	Be	6	2	2.19 ug/l	0.00	1.81	1000	Be	
11	B	6	2	13.58 ug/l	0.00	1.73	2000	B	
23	Na	45	1	383.80 ug/l	0.00	1.45	200000	Na	
24	Mg	45	1	4457.00 ug/l	0.00	1.15	200000	Mg	
27	Al	45	1	21660.00 ug/l	0.00	0.59	200000	Al	
28	Si	45	2	10070.00 ug/l	0.00	1.52	200000	Si	
29	Si	45	2	9774.00 ug/l	0.00	1.03	200000	Si	
31	P	45	1	766.90 ug/l	0.00	1.08	200000	P	
34	S	45	1	155.70 ug/l	0.00	9.57	200000	S	
34	S	45	2	-160.30 ug/l	0.00	18.99	200000	S	
39	K	45	1	4807.00 ug/l	0.00	0.70	200000	K	
44	Ca	45	2	9568.00 ug/l	0.00	0.86	200000	Ca	
47	Ti	72	2	721.10 ug/l	0.00	2.61	5000	Ti	
51	V	72	1	41.08 ug/l	0.00	0.61	2000	V	
52	Cr	72	1	21.18 ug/l	0.00	0.60	2000	Cr	
55	Mn	72	1	730.40 ug/l	0.00	1.08	5000	Mn	
57	Fe	72	1	32780.00 ug/l	0.00	0.46	200000	Fe	
59	Co	72	1	9.48 ug/l	0.00	0.61	2000	Co	
60	Ni	72	1	16.17 ug/l	0.00	0.16	2000	Ni	
63	Cu	72	1	104.70 ug/l	0.00	0.44	5000	Cu	
66	Zn	72	1	213.40 ug/l	0.00	1.01	5000	Zn	
75	As	72	1	6.95 ug/l	0.00	1.64	2000	As	
78	Se	72	1	3.28 ug/l	0.00	3.92	2000	Se	
88	Sr	72	2	67.87 ug/l	0.00	0.33	5000	Sr	
89	Y	72	1	29.27 ug/l	0.00	0.76	2000	Y	
90	Zr	72	1	70.58 ug/l	0.00	0.71	2000	Zr	
93	Nb	72	1	17.77 ug/l	0.00	1.73	2000	Nb	
95	Mo	72	2	3.78 ug/l	0.00	2.07	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	0.94	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	32.18	2000	Rh	
105	Pd	72	1	0.05 ug/l	0.00	9.86	2000	Pd	
107	Ag	115	2	0.59 ug/l	0.00	3.24	400	Ag	
111	Cd	115	2	1.14 ug/l	0.00	1.72	2000	Cd	
118	Sn	115	2	9.48 ug/l	0.00	0.62	2000	Sn	
121	Sb	165	2	0.55 ug/l	0.00	1.33	1000	Sb	
125	Te	165	1	0.02 ug/l	0.00	1.10	2000	Te	
133	Cs	165	1	2.64 ug/l	0.00	0.33	2000	Cs	
137	Ba	165	2	398.60 ug/l	0.00	2.26	5000	Ba	
139	La	165	1	68.40 ug/l	0.00	0.94	2000	La	
140	Ce	165	1	142.00 ug/l	0.00	0.58	2000	Ce	
141	Pr	165	1	15.04 ug/l	0.00	0.91	2000	Pr	
146	Nd	165	1	54.34 ug/l	0.00	1.36	2000	Nd	
147	Sm	165	2	9.67 ug/l	0.00	2.00	2000	Sm	
178	Hf	165	1	2.67 ug/l	0.00	7.42	2000	Hf	
181	Ta	165	1	0.05 ug/l	0.00	381.94	2000	Ta	
182	W	197	1	2.79 ug/l	0.00	1.88	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	2.18	2000	Pt	
205	Tl	197	2	0.56 ug/l	0.00	1.60	2000	Tl	
206	(Pb)	197	2	85.95 ug/l	0.00	1.90	2000	(Pb)	
207	(Pb)	197	2	81.85 ug/l	0.00	1.98	2000	(Pb)	
208	Pb	197	2	83.82 ug/l	0.00	1.80	5000	Pb	
209	Bi	197	1	0.80 ug/l	0.00	0.61	2000	Bi	
232	Th	197	2	14.56 ug/l	0.00	3.75	2000	Th	
238	U	197	2	13.13 ug/l	0.00	1.75	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7339828	1.26	5986087	122.6	70 - 140	Li	
45	Sc	1	538803	0.27	509565	105.7	70 - 140	Sc	
45	Sc	2	7921523	1.29	6903232	114.8	70 - 140	Sc	
72	Ge	1	299393	0.27	275046	108.9	70 - 140	Ge	
72	Ge	2	1511780	1.68	1427904	105.9	70 - 140	Ge	
115	In	2	8999082	1.21	8556655	105.2	70 - 140	In	
165	Ho	1	6918729	0.29	6247878	110.7	70 - 140	Ho	
165	Ho	2	12252074	2.14	11326620	108.2	70 - 140	Ho	
197	Au	1	2183876	0.82	2087035	104.6	70 - 140	Au	
197	Au	2	2630252	1.80	2625939	100.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

c:\ICPCHEM\1\DATA\041310A2.B\048SMPL.D\048SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\048SMPL.D\048SMPL.D#
Date Acquired: Apr 13 2010 06:50 pm
Operator:
Sample Name: LXLR6
Misc Info:
Vial Number: 2211
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	23.30 ug/l	0.00	1.79	1000	Li	
9	Be	6		2	1.83 ug/l	0.00	3.24	1000	Be	
11	B	6		2	11.12 ug/l	0.00	4.61	2000	B	
23	Na	45		1	830.10 ug/l	0.00	1.05	200000	Na	
24	Mg	45		1	4760.00 ug/l	0.00	1.43	200000	Mg	
27	Al	45		1	16260.00 ug/l	0.00	1.19	200000	Al	
28	Si	45		2	9287.00 ug/l	0.00	2.58	200000	Si	
29	Si	45		2	8936.00 ug/l	0.00	2.62	200000	Si	
31	P	45		1	792.10 ug/l	0.00	0.82	200000	P	
34	S	45		1	355.60 ug/l	0.00	13.54	200000	S	
34	S	45		2	71.17 ug/l	0.00	79.09	200000	S	
39	K	45		1	3719.00 ug/l	0.00	0.92	200000	K	
44	Ca	45		2	13040.00 ug/l	0.00	4.20	200000	Ca	
47	Ti	72		2	884.00 ug/l	0.00	2.66	5000	Ti	
51	V	72		1	54.69 ug/l	0.00	1.38	2000	V	
52	Cr	72		1	19.44 ug/l	0.00	0.67	2000	Cr	
55	Mn	72		1	1121.00 ug/l	0.00	0.98	5000	Mn	
57	Fe	72		1	31880.00 ug/l	0.00	1.43	200000	Fe	
59	Co	72		1	12.72 ug/l	0.00	0.83	2000	Co	
60	Ni	72		1	18.71 ug/l	0.00	0.40	2000	Ni	
63	Cu	72		1	29.54 ug/l	0.00	0.75	5000	Cu	
66	Zn	72		1	597.00 ug/l	0.00	1.17	5000	Zn	
75	As	72		1	9.11 ug/l	0.00	0.54	2000	As	
78	Se	72		1	4.59 ug/l	0.00	3.30	2000	Se	
88	Sr	72		2	69.42 ug/l	0.00	1.10	5000	Sr	
89	Y	72		1	53.96 ug/l	0.00	1.59	2000	Y	
90	Zr	72		1	49.78 ug/l	0.00	1.07	2000	Zr	
93	Nb	72		1	23.34 ug/l	0.00	1.26	2000	Nb	
95	Mo	72		2	3.34 ug/l	0.00	3.90	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	257.25	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	13.56	2000	Rh	
105	Pd	72		1	0.09 ug/l	0.00	8.90	2000	Pd	
107	Ag	115		3	0.23 ug/l	0.00	5.86	400	Ag	
111	Cd	115		2	0.63 ug/l	0.00	5.50	2000	Cd	
118	Sn	115		2	3.67 ug/l	0.00	3.83	2000	Sn	
121	Sb	165		2	0.61 ug/l	0.00	3.40	1000	Sb	
125	Te	165		1	0.03 ug/l	0.00	54.05	2000	Te	
133	Cs	165		1	2.57 ug/l	0.00	0.82	2000	Cs	
137	Ba	165		2	306.60 ug/l	0.00	4.26	5000	Ba	
139	La	165		1	88.47 ug/l	0.00	1.68	2000	La	
140	Ce	165		1	184.00 ug/l	0.00	2.10	2000	Ce	
141	Pr	165		1	20.06 ug/l	0.00	2.09	2000	Pr	
146	Nd	165		1	70.87 ug/l	0.00	0.74	2000	Nd	
147	Sm	165		2	13.17 ug/l	0.00	2.78	2000	Sm	
178	Hf	165		1	1.85 ug/l	0.00	6.26	2000	Hf	
181	Ta	165		1	-0.12 ug/l	0.00	108.42	2000	Ta	
182	W	197		1	1.40 ug/l	0.00	3.99	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	21.30	2000	Pt	
205	Tl	197		1	0.34 ug/l	0.00	3.33	2000	Tl	
206	(Pb)	197		2	108.70 ug/l	0.00	0.69	2000	(Pb)	
207	(Pb)	197		2	103.80 ug/l	0.00	0.66	2000	(Pb)	
208	Pb	197		2	106.70 ug/l	0.00	0.52	5000	Pb	
209	Bi	197		1	0.87 ug/l	0.00	0.77	2000	Bi	
232	Th	197		2	18.05 ug/l	0.00	3.09	2000	Th	
238	U	197		2	4.30 ug/l	0.00	1.98	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7423243	2.71	5986087	124.0	70 - 140	Li	
45	Sc	1	536054	0.96	509565	105.2	70 - 140	Sc	
45	Sc	2	7940760	2.64	6903232	115.0	70 - 140	Sc	
72	Ge	1	297636	0.86	275046	108.2	70 - 140	Ge	
72	Ge	2	1540232	2.30	1427904	107.9	70 - 140	Ge	
115	In	2	8985387	3.62	8556655	105.0	70 - 140	In	
165	Ho	1	6901461	1.66	6247878	110.5	70 - 140	Ho	
165	Ho	2	12356466	3.18	11326620	109.1	70 - 140	Ho	
197	Au	1	2148696	0.44	2087035	103.0	70 - 140	Au	
197	Au	2	2600316	1.32	2625939	99.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\049_PB.D\049_PB.D#

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\049_PB.D\049_PB.D#
Date Acquired: Apr 13 2010 06:57 pm
Operator:
Sample Name: LXPT9B
Misc Info: 0099059
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 5-MB
Total Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.418	ug/l	5.49	2.50	Li	
9 Be	6	2	-0.010	ug/l	4.68	0.25	Be	
11 B	6	2	11.380	ug/l	0.13	25.00	B	
23 Na	45	1	26.000	ug/l	2.12	25.00	Na	FAIL
24 Mg	45	1	6.858	ug/l	14.25	25.00	Mg	
27 Al	45	1	8.714	ug/l	4.58	15.00	Al	
28 Si	45	2	60.880	ug/l	0.25	125.00	Si	
29 Si	45	2	53.480	ug/l	0.89	125.00	Si	
31 P	45	1	2.236	ug/l	1.77	25.00	P	
34 S	45	1	-365.000	ug/l	20.40	2500.00	S	
34 S	45	2	-625.700	ug/l	2.12	2500.00	S	
39 K	45	1	5.606	ug/l	2.54	50.00	K	
44 Ca	45	2	10.950	ug/l	2.36	50.00	Ca	
47 Ti	72	2	1.683	ug/l	5.52	2.50	Ti	
51 V	72	1	0.429	ug/l	3.77	5.00	V	
52 Cr	72	1	0.110	ug/l	8.27	5.00	Cr	
55 Mn	72	1	0.178	ug/l	5.36	1.00	Mn	
57 Fe	72	1	28.040	ug/l	7.08	25.00	Fe	FAIL
59 Co	72	1	0.003	ug/l	4.38	1.00	Co	
60 Ni	72	1	0.159	ug/l	3.59	2.50	Ni	
63 Cu	72	1	-0.096	ug/l	4.00	0.50	Cu	
66 Zn	72	1	2.135	ug/l	1.61	2.50	Zn	
75 As	72	1	-0.028	ug/l	159.14	5.00	As	
78 Se	72	1	0.047	ug/l	42.54	2.50	Se	
88 Sr	72	2	0.106	ug/l	2.12	2.50	Sr	
89 Y	72	1	0.000	ug/l	245.19	2.50	Y	
90 Zr	72	1	0.280	ug/l	6.43	2.50	Zr	
93 Nb	72	1	-0.309	ug/l	21.60	12.50	Nb	
95 Mo	72	2	-0.041	ug/l	3.85	2.50	Mo	
101 Ru	72	1	-0.002	ug/l	91.57	5.00	Ru	
103 Rh	72	1	0.008	ug/l	10.23	5.00	Rh	
105 Pd	72	1	-0.001	ug/l	141.02	0.25	Pd	
107 Ag	115	2	0.001	ug/l	39.38	1.00	Ag	
111 Cd	115	2	-0.005	ug/l	32.59	0.25	Cd	
118 Sn	115	2	-0.041	ug/l	16.16	1.00	Sn	
121 Sb	165	2	0.113	ug/l	13.31	2.50	Sb	
125 Te	165	1	-0.016	ug/l	207.99	5.00	Te	
133 Cs	165	1	-0.005	ug/l	31.99	0.05	Cs	
137 Ba	165	2	0.157	ug/l	5.36	1.00	Ba	
139 La	165	1	0.253	ug/l	3.50	1.00	La	
140 Ce	165	1	0.133	ug/l	1.79	5.00	Ce	
141 Pr	165	1	0.031	ug/l	8.12	1.00	Pr	
146 Nd	165	1	0.061	ug/l	10.72	1.00	Nd	
147 Sm	165	2	0.006	ug/l	24.07	5.00	Sm	
178 Hf	165	1	-0.107	ug/l	9.79	5.00	Hf	
181 Ta	165	1	-0.509	ug/l	11.20	5.00	Ta	
182 W	197	1	-0.259	ug/l	17.82	2.50	W	
195 Pt	197	1	0.001	ug/l	97.57	0.50	Pt	
205 Tl	197	2	-0.053	ug/l	8.63	1.00	Tl	
206 (Pb)	197	2	0.183	ug/l	2.45	1.50	(Pb)	
207 (Pb)	197	2	0.175	ug/l	3.03	1.50	(Pb)	
208 Pb	197	2	0.176	ug/l	4.25	1.50	Pb	
209 Bi	197	1	0.010	ug/l	28.96	10.00	Bi	
232 Th	197	2	-0.999	ug/l	2.82	1.00	Th	
238 U	197	2	-0.014	ug/l	4.25	0.50	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7372873	0.51	5986087	123.2	70 - 140	Li	
45 Sc	1	523393	1.11	509565	102.7	70 - 140	Sc	
45 Sc	2	7598362	0.78	6903232	110.1	70 - 140	Sc	
72 Ge	1	302114	0.18	275046	109.8	70 - 140	Ge	
72 Ge	2	1519161	0.74	1427904	106.4	70 - 140	Ge	
115 In	2	9033614	0.34	8556655	105.6	70 - 140	In	
165 Ho	1	6863423	0.98	6247878	109.9	70 - 140	Ho	
165 Ho	2	12102111	0.21	11326620	106.8	70 - 140	Ho	
197 Au	1	2222970	0.83	2087035	106.5	70 - 140	Au	
197 Au	2	2666427	0.72	2625939	101.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

c:\ICPCHEM\1\DATA\041310A2.B\050_LSS.D\050_LSS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\050_LSS.D\050_LSS.D#
Date Acquired: Apr 13 2010 07:04 pm
Acq. Method: 2010.M
Operator:
Sample Name: LXPT9C
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-LCS_S
Prep Dil. Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element Flag
7	Li	6	2	20.48	1.18	---		-	Li
9	Be	6	2	216.10	0.74	1	21610.0	15880 - 26600	Be
11	B	6	2	271.30	1.46	1	27130.0	17200 - 37200	B
23	Na	45	1	1968.00	7.92	1	196800.0	103900 - 250000	Na
24	Mg	45	1	11200.00	6.89	1	1120000.0	718000 - 1294000	Mg
27	Al	45	1	20620.00	7.75	1	2062000.0	942000 - 3180000	Al
28	Si	45	2	3651.00	1.29	---		-	Si
29	Si	45	2	3569.00	2.69	---		-	Si
31	P	45	1	1849.00	7.75	---		-	P
34	S	45	1	897.30	13.54	---		-	S
34	S	45	2	676.90	12.29	---		-	S
39	K	45	1	8759.00	7.43	1	875900.0	520000 - 1084000	K
44	Ca	45	2	20510.00	1.77	1	2051000.0	1456000 - 2400000	Ca
47	Ti	72	2	1043.00	0.41	1	104300.0	10160 - 169200	Ti
51	V	72	1	449.80	4.24	1	44980.0	2840 - 49200	V
52	Cr	72	1	205.80	4.34	1	20580.0	1238 - 23400	Cr
55	Mn	72	1	1347.00	5.35	1	134700.0	9840 - 154600	Mn
57	Fe	72	1	40450.00	4.80	1	4045000.0	1584000 - 5840000	Fe
59	Co	72	1	636.90	5.39	1	63690.0	41200 - 69600	Co
60	Ni	72	1	227.40	5.36	1	22740.0	14300 - 25200	Ni
63	Cu	72	1	288.50	6.90	1	28850.0	19380 - 32400	Cu
66	Zn	72	1	881.20	5.76	1	88120.0	57200 - 100400	Zn
75	As	72	1	375.10	5.21	1	37510.0	22200 - 40800	As
78	Se	72	1	351.30	4.88	1	35130.0	19880 - 39200	Se
88	Sr	72	2	393.70	1.62	1	39370.0	24800 - 45600	Sr
89	Y	72	1	22.61	5.76	---		-	Y
90	Zr	72	1	20.10	5.25	---		-	Zr
93	Nb	72	1	3.24	7.28	---		-	Nb
95	Mo	72	2	177.00	1.62	1	17700.0	11080 - 21000	Mo
101	Ru	72	1	-0.01	48.04	---		-	Ru
103	Rh	72	1	0.01	7.03	---		-	Rh
105	Pd	72	1	0.07	11.02	---		-	Pd
107	Ag	115	2	146.00	0.89	1	14600.0	8840 - 17540	Ag
111	Cd	115	2	411.00	1.05	1	41100.0	27400 - 47400	Cd
118	Sn	115	2	268.00	2.28	1	26800.0	14380 - 34800	Sn
121	Sb	165	2	124.60	2.16	1	12460.0	4740 - 52200	Sb
125	Te	165	1	0.13	5.30	---		-	Te
133	Cs	165	1	3.68	6.65	---		-	Cs
137	Ba	165	2	772.70	2.15	1	77270.0	51600 - 87600	Ba
139	La	165	1	49.45	6.54	---		-	La
140	Ce	165	1	100.20	5.97	---		-	Ce
141	Pr	165	1	12.38	5.48	---		-	Pr
146	Nd	165	1	47.35	5.51	---		-	Nd
147	Sm	165	2	8.08	2.54	---		-	Sm
178	Hf	165	1	0.53	14.59	---		-	Hf
181	Ta	165	1	-0.36	6.08	---		-	Ta
182	W	197	1	0.48	16.12	---		-	W
195	Pt	197	1	0.00	76.08	---		-	Pt
205	Tl	197	2	642.00	2.53	1	64200.0	37200 - 69800	Tl
206	(Pb)	197	2	399.80	1.76	---		-	(Pb)
207	(Pb)	197	2	390.10	2.46	---		-	(Pb)
208	Pb	197	2	397.00	1.78	1	39700.0	25400 - 43200	Pb
209	Bi	197	1	2.47	5.62	---		-	Bi
232	Th	197	2	15.75	0.71	---		-	Th
238	U	197	2	4.29	1.66	---		-	U

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6	Li	2	7039814	0.47	5986087	117.6	70 - 140	Li
45	Sc	1	534129	7.67	509565	104.8	70 - 140	Sc
45	Sc	2	7654422	2.62	6903232	110.9	70 - 140	Sc
72	Ge	1	292162	6.04	275046	106.2	70 - 140	Ge
72	Ge	2	1458090	1.22	1427904	102.1	70 - 140	Ge
115	In	2	8637651	1.43	8556655	100.9	70 - 140	In
165	Ho	1	6736207	7.18	6247878	107.8	70 - 140	Ho
165	Ho	2	11674256	1.19	11326620	103.1	70 - 140	Ho
197	Au	1	2179512	5.11	2087035	104.4	70 - 140	Au
197	Au	2	2590228	1.56	2625939	98.6	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\051_LCS.D\051_LCS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\051_LCS.D\051_LCS.D#
Date Acquired: Apr 13 2010 07:11 pm
Acq. Method: 2010.M
Operator:
Sample Name: LXPT9C-ODD
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-LCS_O
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	498.50	1.56	500	99.7	80 - 120	Li	
9	Be	6	2	458.10	2.12	500	91.6	80 - 120	Be	
11	B	6	2	850.30	1.81	500	170.1	80 - 120	B	FAIL
23	Na	45	1	5450.00	0.30	5000	109.0	80 - 120	Na	
24	Mg	45	1	5094.00	0.56	5000	101.9	80 - 120	Mg	
27	Al	45	1	4988.00	1.09	5000	99.8	80 - 120	Al	
28	Si	45	2	2307.00	0.81	500	461.4	80 - 120	Si	FAIL
29	Si	45	2	2289.00	0.43	500	457.8	80 - 120	Si	FAIL
31	P	45	1	472.00	1.28	5000	9.4	80 - 120	P	FAIL
34	S	45	1	4699.00	3.21	5000	94.0	80 - 120	S	
34	S	45	2	5449.00	0.25	5000	109.0	80 - 120	S	
39	K	45	1	5117.00	0.97	5000	102.3	80 - 120	K	
44	Ca	45	2	5076.00	0.63	5000	101.5	80 - 120	Ca	
47	Ti	72	2	520.90	0.43	500	104.2	80 - 120	Ti	
51	V	72	1	510.10	0.21	500	102.0	80 - 120	V	
52	Cr	72	1	499.60	0.14	500	99.9	80 - 120	Cr	
55	Mn	72	1	482.60	0.31	500	96.5	80 - 120	Mn	
57	Fe	72	1	5121.00	0.91	5000	102.4	80 - 120	Fe	
59	Co	72	1	505.90	0.37	500	101.2	80 - 120	Co	
60	Ni	72	1	487.70	0.95	500	97.5	80 - 120	Ni	
63	Cu	72	1	480.50	0.51	500	96.1	80 - 120	Cu	
66	Zn	72	1	476.20	0.98	500	95.2	80 - 120	Zn	
75	As	72	1	491.30	0.57	500	98.3	80 - 120	As	
78	Se	72	1	458.60	1.14	500	91.7	80 - 120	Se	
88	Sr	72	2	515.00	0.89	500	103.0	80 - 120	Sr	
89	Y	72	1	0.05	7.76	500	0.0	80 - 120	Y	FAIL
90	Zr	72	1	496.40	0.65	500	99.3	80 - 120	Zr	
93	Nb	72	1	106.90	0.95	500	21.4	80 - 120	Nb	FAIL
95	Mo	72	2	496.30	1.45	500	99.3	80 - 120	Mo	
101	Ru	72	1	0.00	158.37	500	0.0	80 - 120	Ru	FAIL
103	Rh	72	1	0.03	5.49	500	0.0	80 - 120	Rh	FAIL
105	Pd	72	1	0.03	0.91	500	0.0	80 - 120	Pd	FAIL
107	Ag	115	2	49.68	0.87	50	99.4	80 - 120	Ag	
111	Cd	115	2	480.70	0.89	500	96.1	80 - 120	Cd	
118	Sn	115	2	509.10	0.58	500	101.8	80 - 120	Sn	
121	Sb	165	2	236.60	1.43	250	94.6	80 - 120	Sb	
125	Te	165	1	0.11	6.50	500	0.0	80 - 120	Te	FAIL
133	Cs	165	1	0.01	25.05	500	0.0	80 - 120	Cs	FAIL
137	Ba	165	2	492.20	2.01	500	98.4	80 - 120	Ba	
139	La	165	1	0.10	1.26	500	0.0	80 - 120	La	FAIL
140	Ce	165	1	0.32	0.69	500	0.1	80 - 120	Ce	FAIL
141	Pr	165	1	0.01	6.10	500	0.0	80 - 120	Pr	FAIL
146	Nd	165	1	0.04	6.93	500	0.0	80 - 120	Nd	FAIL
147	Sm	165	2	482.00	0.60	500	96.4	80 - 120	Sm	
178	Hf	165	1	4.07	4.54	500	0.8	80 - 120	Hf	FAIL
181	Ta	165	1	1.27	19.53	500	0.3	80 - 120	Ta	FAIL
182	W	197	1	545.40	1.63	500	109.1	80 - 120	W	
195	Pt	197	1	0.02	10.42	500	0.0	80 - 120	Pt	FAIL
205	Tl	197	2	561.10	0.79	500	112.2	80 - 120	Tl	
206	(Pb)	197	2	533.20	0.75	500	106.6	80 - 120	(Pb)	
207	(Pb)	197	2	557.60	1.08	500	111.5	80 - 120	(Pb)	
208	Pb	197	2	548.50	1.64	500	109.7	80 - 120	Pb	
209	Bi	197	1	521.00	0.95	500	104.2	80 - 120	Bi	
232	Th	197	2	547.70	2.22	500	109.5	80 - 120	Th	
238	U	197	2	583.80	1.35	500	116.8	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6928666	1.54	5986087	115.7	70 - 140	Li	
45	Sc	1	508442	0.78	509565	99.8	70 - 140	Sc	
45	Sc	2	7440094	0.33	6903232	107.8	70 - 140	Sc	
72	Ge	1	290506	0.16	275046	105.6	70 - 140	Ge	
72	Ge	2	1495767	1.28	1427904	104.8	70 - 140	Ge	
115	In	2	8705072	0.33	8556655	101.7	70 - 140	In	
165	Ho	1	6765809	1.14	6247878	108.3	70 - 140	Ho	
165	Ho	2	12031766	0.83	11326620	106.2	70 - 140	Ho	
197	Au	1	2125006	0.54	2087035	101.8	70 - 140	Au	
197	Au	2	2537208	0.80	2625939	96.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

18 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\052SMPL.D\052SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\052SMPL.D\052SMPL.D#
Date Acquired: Apr 13 2010 07:18 pm
Operator:
Sample Name: LW48M
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	31.01 ug/l	0.00	0.90	1000	Li	
9	Be	6		2	1.26 ug/l	0.00	0.52	1000	Be	
11	B	6		2	12.70 ug/l	0.00	0.66	2000	B	
23	Na	45		1	170.80 ug/l	0.00	1.24	200000	Na	
24	Mg	45		1	2295.00 ug/l	0.00	2.30	200000	Mg	
27	Al	45		1	9685.00 ug/l	0.00	2.31	200000	Al	
28	Si	45		2	1556.00 ug/l	0.00	1.46	200000	Si	
29	Si	45		2	1558.00 ug/l	0.00	1.64	200000	Si	
31	P	45		1	227.30 ug/l	0.00	1.36	200000	P	
34	S	45		1	128.00 ug/l	0.00	48.19	200000	S	
34	S	45		2	-50.32 ug/l	0.00	12.38	200000	S	
39	K	45		1	2435.00 ug/l	0.00	2.51	200000	K	
44	Ca	45		2	3739.00 ug/l	0.00	1.09	200000	Ca	
47	Ti	72		2	227.20 ug/l	0.00	0.74	5000	Ti	
51	V	72		1	19.12 ug/l	0.00	0.52	2000	V	
52	Cr	72		1	7.69 ug/l	0.00	1.00	2000	Cr	
55	Mn	72		1	721.10 ug/l	0.00	1.97	5000	Mn	
57	Fe	72		1	18090.00 ug/l	0.00	1.17	200000	Fe	
59	Co	72		1	4.81 ug/l	0.00	0.67	2000	Co	
60	Ni	72		1	10.91 ug/l	0.00	0.81	2000	Ni	
63	Cu	72		1	11.25 ug/l	0.00	1.54	5000	Cu	
66	Zn	72		1	80.98 ug/l	0.00	0.60	5000	Zn	
75	As	72		1	5.82 ug/l	0.00	0.20	2000	As	
78	Se	72		1	4.28 ug/l	0.00	4.38	2000	Se	
88	Sr	72		2	29.80 ug/l	0.00	0.77	5000	Sr	
89	Y	72		1	51.16 ug/l	0.00	1.18	2000	Y	
90	Zr	72		1	47.50 ug/l	0.00	0.94	2000	Zr	
93	Nb	72		1	25.19 ug/l	0.00	4.84	2000	Nb	
95	Mo	72		2	8.00 ug/l	0.00	0.85	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	43.14	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	66.13	2000	Rh	
105	Pd	72		1	0.09 ug/l	0.00	9.55	2000	Pd	
107	Ag	115		2	0.13 ug/l	0.00	1.30	400	Ag	
111	Cd	115		2	0.28 ug/l	0.00	0.63	2000	Cd	
118	Sn	115		2	3.65 ug/l	0.00	2.27	2000	Sn	
121	Sb	165		2	0.48 ug/l	0.00	4.56	1000	Sb	
125	Te	165		1	-0.03 ug/l	0.00	108.48	2000	Te	
133	Cs	165		1	2.62 ug/l	0.00	1.53	2000	Cs	
137	Ba	165		2	139.30 ug/l	0.00	0.43	5000	Ba	
139	La	165		1	90.37 ug/l	0.00	0.65	2000	La	
140	Ce	165		1	166.90 ug/l	0.00	1.20	2000	Ce	
141	Pr	165		1	19.08 ug/l	0.00	0.57	2000	Pr	
146	Nd	165		1	66.54 ug/l	0.00	0.71	2000	Nd	
147	Sm	165		2	12.48 ug/l	0.00	0.59	2000	Sm	
178	Hf	165		1	1.11 ug/l	0.00	2.62	2000	Hf	
181	Ta	165		1	-0.38 ug/l	0.00	20.31	2000	Ta	
182	W	197		1	6.56 ug/l	0.00	5.76	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	29.99	2000	Pt	
205	Tl	197		2	1.50 ug/l	0.00	4.44	2000	Tl	
206	(Pb)	197		2	23.29 ug/l	0.00	0.64	2000	(Pb)	
207	(Pb)	197		2	22.22 ug/l	0.00	0.56	2000	(Pb)	
208	Pb	197		2	22.81 ug/l	0.00	0.59	5000	Pb	
209	Bi	197		1	1.73 ug/l	0.00	1.65	2000	Bi	
232	Th	197		2	21.11 ug/l	0.00	1.15	2000	Th	
238	U	197		2	1.68 ug/l	0.00	0.69	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7237543	0.54	5986087	120.9	70 - 140	Li	
45	Sc	1	521269	1.32	509565	102.3	70 - 140	Sc	
45	Sc	2	7577602	0.34	6903232	109.8	70 - 140	Sc	
72	Ge	1	287597	0.41	275046	108.2	70 - 140	Ge	
72	Ge	2	1505312	1.02	1427904	105.4	70 - 140	Ge	
115	In	2	9015594	1.24	8556655	105.4	70 - 140	In	
165	Ho	1	6769897	1.08	6247878	108.4	70 - 140	Ho	
165	Ho	2	12032399	0.66	11326620	106.2	70 - 140	Ho	
197	Au	1	2157198	0.32	2087035	103.4	70 - 140	Au	
197	Au	2	2578868	0.56	2625939	98.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\053SMPL.D\053SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\053SMPL.D\053SMPL.D#
Date Acquired: Apr 13 2010 07:25 pm
Operator:
Sample Name: LW48HV
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	6.42 ug/l	0.00	3.59	1000	Li	
9	Be	6	2	0.28 ug/l	0.00	2.83	1000	Be	
11	B	6	2	8.38 ug/l	0.00	1.59	2000	B	
23	Na	45	1	35.40 ug/l	0.00	1.98	200000	Na	
24	Mg	45	1	464.30 ug/l	0.00	0.80	200000	Mg	
27	Al	45	1	2034.00 ug/l	0.00	0.62	200000	Al	
28	Si	45	2	314.10 ug/l	0.00	0.19	200000	Si	
29	Si	45	2	294.90 ug/l	0.00	1.72	200000	Si	
31	P	45	1	46.32 ug/l	0.00	2.08	200000	P	
34	S	45	1	-191.30 ug/l	0.00	18.76	200000	S	
34	S	45	2	-403.50 ug/l	0.00	3.33	200000	S	
39	K	45	1	513.50 ug/l	0.00	0.76	200000	K	
44	Ca	45	2	769.90 ug/l	0.00	0.79	200000	Ca	
47	Ti	72	2	46.19 ug/l	0.00	0.79	5000	Ti	
51	V	72	1	3.46 ug/l	0.00	1.60	2000	V	
52	Cr	72	1	1.62 ug/l	0.00	2.37	2000	Cr	
55	Mn	72	1	157.30 ug/l	0.00	1.71	5000	Mn	
57	Fe	72	1	3816.00 ug/l	0.00	1.44	200000	Fe	
59	Co	72	1	1.01 ug/l	0.00	1.23	2000	Co	
60	Ni	72	1	2.52 ug/l	0.00	1.52	2000	Ni	
63	Cu	72	1	2.15 ug/l	0.00	1.61	5000	Cu	
66	Zn	72	1	18.05 ug/l	0.00	1.66	5000	Zn	
75	As	72	1	1.00 ug/l	0.00	0.83	2000	As	
78	Se	72	1	0.93 ug/l	0.00	4.87	2000	Se	
88	Sr	72	2	6.05 ug/l	0.00	1.27	5000	Sr	
89	Y	72	1	10.43 ug/l	0.00	0.85	2000	Y	
90	Zr	72	1	6.74 ug/l	0.00	2.09	2000	Zr	
93	Nb	72	1	3.11 ug/l	0.00	6.32	2000	Nb	
95	Mo	72	2	1.68 ug/l	0.00	1.45	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	11.63	2000	Ru	
103	Rh	72	1	-0.01 ug/l	0.00	1.28	2000	Rh	
105	Pd	72	1	0.02 ug/l	0.00	15.41	2000	Pd	
107	Ag	115	2	0.02 ug/l	0.00	15.68	400	Ag	
111	Cd	115	2	0.06 ug/l	0.00	12.11	2000	Cd	
118	Sn	115	2	0.35 ug/l	0.00	4.07	2000	Sn	
121	Sb	165	2	0.12 ug/l	0.00	3.16	1000	Sb	
125	Te	165	1	-0.04 ug/l	0.00	38.76	2000	Te	
133	Cs	165	1	0.53 ug/l	0.00	2.60	2000	Cs	
137	Ba	165	2	28.40 ug/l	0.00	1.20	5000	Ba	
139	La	165	1	15.52 ug/l	0.00	0.38	2000	La	
140	Ce	165	1	34.54 ug/l	0.00	0.56	2000	Ce	
141	Pr	165	1	3.83 ug/l	0.00	1.25	2000	Pr	
146	Nd	165	1	13.47 ug/l	0.00	0.79	2000	Nd	
147	Sm	165	2	2.52 ug/l	0.00	1.02	2000	Sm	
178	Hf	165	1	0.01 ug/l	0.00	26.70	2000	Hf	
181	Ta	165	1	-0.66 ug/l	0.00	2.07	2000	Ta	
182	W	197	1	0.90 ug/l	0.00	17.77	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	72.48	2000	Pt	
205	Tl	197	2	0.56 ug/l	0.00	3.60	2000	Tl	
206	(Pb)	197	2	4.20 ug/l	0.00	0.92	2000	(Pb)	
207	(Pb)	197	2	4.07 ug/l	0.00	0.85	2000	(Pb)	
208	Pb	197	2	4.18 ug/l	0.00	1.13	5000	Pb	
209	Bi	197	1	0.32 ug/l	0.00	0.87	2000	Bi	
232	Th	197	2	-0.65 ug/l	0.00	4.45	2000	Th	
238	U	197	2	0.29 ug/l	0.00	3.71	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7082482	1.72	5986087	118.3	70 - 140	Li	
45	Sc	1	524402	0.19	509565	102.9	70 - 140	Sc	
45	Sc	2	7718415	0.57	6903232	111.8	70 - 140	Sc	
72	Ge	1	296519	1.00	275046	107.8	70 - 140	Ge	
72	Ge	2	1519947	0.43	1427904	106.4	70 - 140	Ge	
115	In	2	9296644	0.67	8556655	108.6	70 - 140	In	
165	Ho	1	6717899	0.31	6247878	107.5	70 - 140	Ho	
165	Ho	2	12132849	0.62	11326620	107.1	70 - 140	Ho	
197	Au	1	2352617	0.45	2087035	112.7	70 - 140	Au	
197	Au	2	2864703	1.01	2625939	109.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\054SMPL.D\054SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\054SMPL.D\054SMPL.D#
Date Acquired: Apr 13 2010 07:33 pm
Operator:
Sample Name: LW48HX
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	21.68 ug/l	0.00	2.66	1000	Li	
9	Be	6		2	1.27 ug/l	0.00	4.04	1000	Be	
11	B	6		2	8.66 ug/l	0.00	4.79	2000	B	
23	Na	45		1	159.30 ug/l	0.00	0.40	200000	Na	
24	Mg	45		1	1905.00 ug/l	0.00	0.54	200000	Mg	
27	Al	45		1	8892.00 ug/l	0.00	0.40	200000	Al	
28	Si	45		2	1456.00 ug/l	0.00	0.47	200000	Si	
29	Si	45		2	1458.00 ug/l	0.00	1.57	200000	Si	
31	P	45		1	217.50 ug/l	0.00	0.47	200000	P	
34	S	45		1	56.39 ug/l	0.00	106.46	200000	S	
34	S	45		2	-172.60 ug/l	0.00	11.94	200000	S	
39	K	45		1	2238.00 ug/l	0.00	0.59	200000	K	
44	Ca	45		2	3396.00 ug/l	0.00	0.79	200000	Ca	
47	Ti	72		2	220.10 ug/l	0.00	0.81	5000	Ti	
51	V	72		1	17.12 ug/l	0.00	0.91	2000	V	
52	Cr	72		1	6.49 ug/l	0.00	0.69	2000	Cr	
55	Mn	72		1	656.70 ug/l	0.00	0.63	5000	Mn	
57	Fe	72		1	18100.00 ug/l	0.00	0.87	200000	Fe	
59	Co	72		1	3.72 ug/l	0.00	0.91	2000	Co	
60	Ni	72		1	9.83 ug/l	0.00	0.78	2000	Ni	
63	Cu	72		1	10.36 ug/l	0.00	0.59	5000	Cu	
66	Zn	72		1	76.47 ug/l	0.00	1.02	5000	Zn	
75	As	72		1	5.13 ug/l	0.00	0.46	2000	As	
78	Se	72		1	3.77 ug/l	0.00	1.39	2000	Se	
88	Sr	72		2	27.06 ug/l	0.00	0.88	5000	Sr	
89	Y	72		1	49.35 ug/l	0.00	1.14	2000	Y	
90	Zr	72		1	43.84 ug/l	0.00	0.96	2000	Zr	
93	Nb	72		1	17.17 ug/l	0.00	3.71	2000	Nb	
95	Mo	72		2	7.31 ug/l	0.00	0.18	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	65.60	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	111.01	2000	Rh	
105	Pd	72		1	0.09 ug/l	0.00	12.07	2000	Pd	
107	Ag	115		2	0.13 ug/l	0.00	2.74	400	Ag	
111	Cd	115		2	0.24 ug/l	0.00	5.32	2000	Cd	
118	Sn	115		2	2.95 ug/l	0.00	2.57	2000	Sn	
121	Sb	165		2	0.39 ug/l	0.00	2.90	1000	Sb	
125	Te	165		1	-0.01 ug/l	0.00	464.27	2000	Te	
133	Cs	165		1	2.45 ug/l	0.00	1.03	2000	Cs	
137	Ba	165		2	125.70 ug/l	0.00	1.56	5000	Ba	
139	La	165		1	73.59 ug/l	0.00	0.97	2000	La	
140	Ce	165		1	159.50 ug/l	0.00	1.89	2000	Ce	
141	Pr	165		1	17.02 ug/l	0.00	1.03	2000	Pr	
146	Nd	165		1	59.60 ug/l	0.00	0.62	2000	Nd	
147	Sm	165		2	11.19 ug/l	0.00	1.06	2000	Sm	
178	Hf	165		1	1.03 ug/l	0.00	2.79	2000	Hf	
181	Ta	165		1	-0.41 ug/l	0.00	17.02	2000	Ta	
182	W	197		1	2.61 ug/l	0.00	3.06	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	27.93	2000	Pt	
205	Tl	197		2	0.55 ug/l	0.00	2.55	2000	Tl	
206	(Pb)	197		2	19.28 ug/l	0.00	2.00	2000	(Pb)	
207	(Pb)	197		2	18.47 ug/l	0.00	0.73	2000	(Pb)	
208	Pb	197		2	19.06 ug/l	0.00	0.92	5000	Pb	
209	Bi	197		1	1.92 ug/l	0.00	1.35	2000	Bi	
232	Th	197		1	13.60 ug/l	0.00	2.11	2000	Th	
238	U	197		2	1.53 ug/l	0.00	1.18	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7286686	2.02	5986087	121.7	70 - 140	Li	
45	Sc	1	531926	0.11	509565	104.4	70 - 140	Sc	
45	Sc	2	7803670	0.82	6903232	113.0	70 - 140	Sc	
72	Ge	1	299940	1.01	275046	109.1	70 - 140	Ge	
72	Ge	2	1510347	0.42	1427904	105.8	70 - 140	Ge	
115	In	2	9005937	1.54	8556655	105.3	70 - 140	In	
165	Ho	1	6891172	1.15	6247878	110.3	70 - 140	Ho	
165	Ho	2	12162558	1.35	11326620	107.4	70 - 140	Ho	
197	Au	1	2158099	1.25	2087035	103.4	70 - 140	Au	
197	Au	2	2633033	1.44	2625939	100.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures# 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\055SMPL.D\055SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\055SMPL.D\055SMPL.D#
Date Acquired: Apr 13 2010 07:40 pm
Operator:
Sample Name: LW48HS
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	541.30 ug/l	0.00	2.33	1000	Li	
9	Be	6	2	456.80 ug/l	0.00	0.73	1000	Be	
11	B	6	2	502.90 ug/l	0.00	1.70	2000	B	
23	Na	45	1	5478.00 ug/l	0.00	1.67	200000	Na	
24	Mg	45	1	7914.00 ug/l	0.00	1.90	200000	Mg	
27	Al	45	1	24490.00 ug/l	0.00	1.53	200000	Al	
28	Si	45	2	2814.00 ug/l	0.00	2.31	200000	Si	
29	Si	45	2	2777.00 ug/l	0.00	0.84	200000	Si	
31	P	45	1	677.60 ug/l	0.00	2.12	200000	P	
34	S	45	1	4734.00 ug/l	0.00	3.45	200000	S	
34	S	45	2	5465.00 ug/l	0.00	0.95	200000	S	
39	K	45	1	8439.00 ug/l	0.00	1.95	200000	K	
44	Ca	45	2	8613.00 ug/l	0.00	0.92	200000	Ca	
47	Ti	72	2	1013.00 ug/l	0.00	1.71	5000	Ti	
51	V	72	1	522.30 ug/l	0.00	1.45	2000	V	
52	Cr	72	1	498.50 ug/l	0.00	0.33	2000	Cr	
55	Mn	72	1	1003.00 ug/l	0.00	0.59	5000	Mn	
57	Fe	72	1	23480.00 ug/l	0.00	0.18	200000	Fe	
59	Co	72	1	496.80 ug/l	0.00	0.50	2000	Co	
60	Ni	72	1	487.20 ug/l	0.00	0.38	2000	Ni	
63	Cu	72	1	474.50 ug/l	0.00	0.34	5000	Cu	
66	Zn	72	1	544.60 ug/l	0.00	0.17	5000	Zn	
75	As	72	1	489.30 ug/l	0.00	0.38	2000	As	
78	Se	72	1	459.10 ug/l	0.00	0.68	2000	Se	
88	Sr	72	2	545.70 ug/l	0.00	1.58	5000	Sr	
89	Y	72	1	61.71 ug/l	0.00	0.44	2000	Y	
90	Zr	72	1	534.00 ug/l	0.00	0.76	2000	Zr	
93	Nb	72	1	172.40 ug/l	0.00	0.48	2000	Nb	
95	Mo	72	2	504.80 ug/l	0.00	0.55	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	427.95	2000	Ru	
103	Rh	72	1	0.03 ug/l	0.00	8.57	2000	Rh	
105	Pd	72	1	0.15 ug/l	0.00	4.72	2000	Pd	
107	Ag	115	2	49.11 ug/l	0.00	1.07	400	Ag	
111	Cd	115	2	489.00 ug/l	0.00	0.97	2000	Cd	
118	Sn	115	2	514.90 ug/l	0.00	0.33	2000	Sn	
121	Sb	165	2	197.30 ug/l	0.00	1.11	1000	Sb	
125	Te	165	1	0.08 ug/l	0.00	23.88	2000	Te	
133	Cs	165	1	3.99 ug/l	0.00	1.70	2000	Cs	
137	Ba	165	2	628.00 ug/l	0.00	0.96	5000	Ba	
139	La	165	1	111.10 ug/l	0.00	1.58	2000	La	
140	Ce	165	1	224.80 ug/l	0.00	0.54	2000	Ce	
141	Pr	165	1	24.27 ug/l	0.00	1.36	2000	Pr	
146	Nd	165	1	83.35 ug/l	0.00	1.43	2000	Nd	
147	Sm	165	2	496.10 ug/l	0.00	1.53	2000	Sm	
178	Hf	165	1	2.70 ug/l	0.00	3.07	2000	Hf	
181	Ta	165	1	0.24 ug/l	0.00	59.44	2000	Ta	
182	W	197	1	505.40 ug/l	0.00	0.42	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	25.24	2000	Pt	
205	Tl	197	2	562.60 ug/l	0.00	0.19	2000	Tl	
206	(Pb)	197	2	550.90 ug/l	0.00	0.37	2000	(Pb)	
207	(Pb)	197	2	573.60 ug/l	0.00	1.10	2000	(Pb)	
208	Pb	197	2	564.40 ug/l	0.00	1.31	5000	Pb	
209	Bi	197	1	527.60 ug/l	0.00	0.28	2000	Bi	
232	Th	197	2	575.90 ug/l	0.00	0.82	2000	Th	
238	U	197	2	592.40 ug/l	0.00	1.66	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6900496	1.05	5986087	115.3	70 - 140	Li	
45	Sc	1	532248	1.19	509565	104.5	70 - 140	Sc	
45	Sc	2	7724648	1.00	6903232	111.9	70 - 140	Sc	
72	Ge	1	298220	0.34	275046	108.4	70 - 140	Ge	
72	Ge	2	1504938	1.81	1427904	105.4	70 - 140	Ge	
115	In	2	8690717	0.56	8556655	101.6	70 - 140	In	
165	Ho	1	6776354	1.03	6247878	108.5	70 - 140	Ho	
165	Ho	2	12127596	0.92	11326620	107.1	70 - 140	Ho	
197	Au	1	2104424	0.43	2087035	100.8	70 - 140	Au	
197	Au	2	2527110	0.23	2625939	96.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\056_CCV.D\056_CCV.D#
Date Acquired: Apr 13 2010 07:47 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	94.12 ug/l	1.49	100	94.1	90 - 110	Li	
9 Be	6	2	90.65 ug/l	1.98	100	90.7	90 - 110	Be	
11 B	6	2	195.70 ug/l	1.76	200	97.9	90 - 110	B	
23 Na	45	1	1293.00 ug/l	0.41	1250	103.4	90 - 110	Na	
24 Mg	45	1	2522.00 ug/l	0.86	2500	100.9	90 - 110	Mg	
27 Al	45	1	1196.00 ug/l	0.84	1250	95.7	90 - 110	Al	
28 Si	45	2	1242.00 ug/l	0.96	1250	99.4	90 - 110	Si	
29 Si	45	2	1224.00 ug/l	0.99	1250	97.9	90 - 110	Si	
31 P	45	1	1187.00 ug/l	0.55	1250	95.0	90 - 110	P	
34 S	45	1	19070.00 ug/l	0.86	20000	95.4	90 - 110	S	
34 S	45	2	19870.00 ug/l	0.63	20000	99.4	90 - 110	S	
39 K	45	1	1270.00 ug/l	0.36	1250	101.6	90 - 110	K	
44 Ca	45	2	2489.00 ug/l	0.11	2500	99.6	90 - 110	Ca	
47 Ti	72	2	101.80 ug/l	0.68	100	101.8	90 - 110	Ti	
51 V	72	1	103.10 ug/l	0.36	100	103.1	90 - 110	V	
52 Cr	72	1	99.34 ug/l	0.08	100	99.3	90 - 110	Cr	
55 Mn	72	1	95.75 ug/l	0.23	100	95.8	90 - 110	Mn	
57 Fe	72	1	2422.00 ug/l	0.41	2500	96.9	90 - 110	Fe	
59 Co	72	1	98.56 ug/l	0.86	100	98.6	90 - 110	Co	
60 Ni	72	1	97.43 ug/l	0.50	100	97.4	90 - 110	Ni	
63 Cu	72	1	98.74 ug/l	0.38	100	98.7	90 - 110	Cu	
66 Zn	72	1	96.29 ug/l	0.23	100	96.3	90 - 110	Zn	
75 As	72	1	100.10 ug/l	0.20	100	100.1	90 - 110	As	
78 Se	72	1	94.35 ug/l	0.45	100	94.4	90 - 110	Se	
88 Sr	72	2	100.40 ug/l	0.93	100	100.4	90 - 110	Sr	
89 Y	72	1	100.40 ug/l	0.71	100	100.4	90 - 110	Y	
90 Zr	72	1	102.30 ug/l	0.72	100	102.3	90 - 110	Zr	
93 Nb	72	1	54.93 ug/l	2.06	50	109.9	90 - 110	Nb	
95 Mo	72	2	98.62 ug/l	0.85	100	98.6	90 - 110	Mo	
101 Ru	72	1	101.20 ug/l	0.62	100	101.2	90 - 110	Ru	
103 Rh	72	1	102.80 ug/l	1.15	100	102.8	90 - 110	Rh	
105 Pd	72	1	10.08 ug/l	0.90	10	100.8	90 - 110	Pd	
107 Ag	115	2	19.70 ug/l	1.22	20	98.5	90 - 110	Ag	
111 Cd	115	2	96.81 ug/l	0.19	100	96.8	90 - 110	Cd	
118 Sn	115	2	102.60 ug/l	1.17	100	102.6	90 - 110	Sn	
121 Sb	165	2	50.73 ug/l	0.72	50	101.5	90 - 110	Sb	
125 Te	165	1	90.57 ug/l	1.70	100	90.6	90 - 110	Te	
133 Cs	165	1	94.25 ug/l	0.86	100	94.3	90 - 110	Cs	
137 Ba	165	2	97.85 ug/l	0.73	100	97.9	90 - 110	Ba	
139 La	165	1	99.01 ug/l	0.88	100	99.0	90 - 110	La	
140 Ce	165	1	97.87 ug/l	1.62	100	97.9	90 - 110	Ce	
141 Pr	165	1	96.29 ug/l	1.28	100	96.3	90 - 110	Pr	
146 Nd	165	1	94.96 ug/l	0.86	100	95.0	90 - 110	Nd	
147 Sm	165	2	97.82 ug/l	2.35	100	97.8	90 - 110	Sm	
178 Hf	165	1	86.42 ug/l	0.41	100	86.4	90 - 110	Hf	Fail
181 Ta	165	1	99.39 ug/l	3.57	100	99.4	90 - 110	Ta	
182 W	197	1	104.50 ug/l	1.10	100	104.5	90 - 110	W	
195 Pt	197	1	9.81 ug/l	0.33	10	98.1	90 - 110	Pt	
205 Tl	197	2	104.40 ug/l	0.53	100	104.4	90 - 110	Tl	
206 (Pb)	197	2	104.60 ug/l	1.35	100	104.6	90 - 110	(Pb)	
207 (Pb)	197	2	103.50 ug/l	2.30	100	103.5	90 - 110	(Pb)	
208 Pb	197	2	104.90 ug/l	1.64	100	104.9	90 - 110	Pb	
209 Bi	197	1	103.00 ug/l	0.83	100	103.0	90 - 110	Bi	
232 Th	197	2	102.30 ug/l	2.20	100	102.3	90 - 110	Th	
238 U	197	2	103.60 ug/l	2.79	100	103.6	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7057910	1.58	5986087	117.9	70 - 140	Li	
45 Sc	1	504672	0.46	509565	99.0	70 - 140	Sc	
45 Sc	2	7449343	0.40	6903232	107.9	70 - 140	Sc	
72 Ge	1	293645	0.46	275046	106.8	70 - 140	Ge	
72 Ge	2	1493648	0.44	1427904	104.6	70 - 140	Ge	
115 In	2	8958441	1.02	8556655	104.7	70 - 140	In	
165 Ho	1	6803794	1.45	6247878	108.9	70 - 140	Ho	
165 Ho	2	11799063	0.99	11326620	104.2	70 - 140	Ho	
197 Au	1	2261078	0.52	2087035	108.3	70 - 140	Au	
197 Au	2	2691776	0.85	2625939	102.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

G:\ICPCHEM\1\DATA\041310A2.B\057_CCB.D\057_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\057_CCB.D\057_CCB.D#
Date Acquired: Apr 13 2010 07:54 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.344	ug/l	10.19	1.35	Li	
9 Be	6	2	0.001	ug/l	71.99	0.23	Be	
11 B	6	2	7.679	ug/l	3.81	14.94	B	
23 Na	45	1	2.513	ug/l	7.78	10.60	Na	
24 Mg	45	1	0.071	ug/l	33.37	3.46	Mg	
27 Al	45	1	0.006	ug/l	78.62	8.94	Al	
28 Si	45	2	1.226	ug/l	2.30	35.60	Si	
29 Si	45	2	-4.190	ug/l	8.47	35.60	Si	
31 P	45	1	0.415	ug/l	316.31	16.46	P	
34 S	45	1	-127.200	ug/l	37.48	666.00	S	
34 S	45	2	-374.800	ug/l	5.60	666.00	S	
39 K	45	1	1.075	ug/l	30.50	16.66	K	
44 Ca	45	2	-13.040	ug/l	4.74	97.40	Ca	
47 Ti	72	2	0.621	ug/l	6.11	1.15	Ti	
51 V	72	1	0.321	ug/l	4.86	4.74	V	
52 Cr	72	1	-0.008	ug/l	30.32	6.52	Cr	
55 Mn	72	1	0.021	ug/l	13.74	0.47	Mn	
57 Fe	72	1	6.949	ug/l	24.09	40.70	Fe	
59 Co	72	1	0.000	ug/l	95.11	0.43	Co	
60 Ni	72	1	-0.010	ug/l	17.35	0.46	Ni	
63 Cu	72	1	0.030	ug/l	15.86	0.19	Cu	
66 Zn	72	1	-0.012	ug/l	104.40	7.48	Zn	
75 As	72	1	0.096	ug/l	36.99	1.89	As	
78 Se	72	1	0.237	ug/l	20.21	0.62	Se	
88 Sr	72	2	0.003	ug/l	23.70	0.23	Sr	
89 Y	72	1	0.003	ug/l	97.18	0.42	Y	
90 Zr	72	1	0.049	ug/l	20.44	0.50	Zr	
93 Nb	72	1	0.907	ug/l	28.22	4.46	Nb	
95 Mo	72	2	0.321	ug/l	3.33	0.43	Mo	
101 Ru	72	1	0.000	ug/l	2165.60	2.00	Ru	
103 Rh	72	1	0.002	ug/l	68.08	1.63	Rh	
105 Pd	72	1	-0.001	ug/l	65.66	0.08	Pd	
107 Ag	115	2	0.002	ug/l	41.63	0.08	Ag	
111 Cd	115	2	0.018	ug/l	44.75	0.11	Cd	
118 Sn	115	2	0.520	ug/l	5.23	0.30	Sn	FAIL
121 Sb	165	2	0.268	ug/l	4.13	2.24	Sb	
125 Te	165	1	0.112	ug/l	36.24	1.07	Te	
133 Cs	165	1	0.032	ug/l	8.10	0.11	Cs	
137 Ba	165	2	0.004	ug/l	74.79	0.39	Ba	
139 La	165	1	0.001	ug/l	85.24	0.10	La	
140 Ce	165	1	0.002	ug/l	57.28	1.77	Ce	
141 Pr	165	1	0.001	ug/l	112.02	0.08	Pr	
146 Nd	165	1	0.001	ug/l	187.94	0.21	Nd	
147 Sm	165	2	0.000	ug/l	361.80	0.65	Sm	
178 Hf	165	1	0.045	ug/l	18.91	2.26	Hf	
181 Ta	165	1	-0.260	ug/l	26.96	1.46	Ta	
182 W	197	1	2.034	ug/l	14.60	1.68	W	FAIL
195 Pt	197	1	0.000	ug/l	8083.20	0.12	Pt	
205 Tl	197	2	0.864	ug/l	3.80	1.10	Tl	
206 (Pb)	197	2	0.056	ug/l	16.65	2.00	(Pb)	
207 (Pb)	197	2	0.053	ug/l	5.33	2.00	(Pb)	
208 Pb	197	2	0.053	ug/l	9.61	0.35	Pb	
209 Bi	197	1	0.023	ug/l	8.49	1.46	Bi	
232 Th	197	2	-0.374	ug/l	21.84	1.10	Th	
238 U	197	2	0.046	ug/l	16.95	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7135188	1.45	5986087	119.2	70 - 140	Li	
45 Sc	1	507936	0.19	509565	99.7	70 - 140	Sc	
45 Sc	2	7359661	0.93	6903232	106.6	70 - 140	Sc	
72 Ge	1	289569	0.78	275046	105.3	70 - 140	Ge	
72 Ge	2	1476169	1.09	1427904	103.4	70 - 140	Ge	
115 In	2	8850222	0.20	8556655	103.4	70 - 140	In	
165 Ho	1	6628768	0.64	6247878	106.1	70 - 140	Ho	
165 Ho	2	11625746	1.20	11326620	102.6	70 - 140	Ho	
197 Au	1	2237626	1.05	2087035	107.2	70 - 140	Au	
197 Au	2	2649910	1.85	2625939	100.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

c:\ICPCHEM\1\DATA\041310A2.B\058SMPL.D\058SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\058SMPL.D\058SMPL.D#
Date Acquired: Apr 13 2010 08:01 pm
Operator:
Sample Name: LW48HA
Misc Info:
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7	Li	6	2	76.09 ug/l	0.00	1.27	1000	Li
9	Be	6	2	5.45 ug/l	0.00	2.29	1000	Be
11	B	6	2	455.40 ug/l	0.00	3.11	2000	B
23	Na	45	1	665.90 ug/l	0.00	1.33	200000	Na
24	Mg	45	1	2657.00 ug/l	0.00	0.89	200000	Mg
27	Al	45	1	9436.00 ug/l	0.00	1.30	200000	Al
28	Si	45	2	3941.00 ug/l	0.00	0.45	200000	Si
29	Si	45	2	3871.00 ug/l	0.00	0.92	200000	Si
31	P	45	1	653.20 ug/l	0.00	0.94	200000	P
34	S	45	1	-49.62 ug/l	0.00	89.32	200000	S
34	S	45	2	-367.90 ug/l	0.00	2.73	200000	S
39	K	45	1	3255.00 ug/l	0.00	1.01	200000	K
44	Ca	45	2	4490.00 ug/l	0.00	0.83	200000	Ca
47	Ti	72	2	262.90 ug/l	0.00	0.50	5000	Ti
51	V	72	1	119.90 ug/l	0.00	1.59	2000	V
52	Cr	72	1	105.40 ug/l	0.00	0.95	2000	Cr
55	Mn	72	1	719.20 ug/l	0.00	0.34	5000	Mn
57	Fe	72	1	17960.00 ug/l	0.00	1.46	200000	Fe
59	Co	72	1	24.56 ug/l	0.00	1.26	2000	Co
60	Ni	72	1	58.22 ug/l	0.00	0.89	2000	Ni
63	Cu	72	1	20.38 ug/l	0.00	0.46	5000	Cu
66	Zn	72	1	123.80 ug/l	0.00	0.61	5000	Zn
75	As	72	1	100.00 ug/l	0.00	0.78	2000	As
78	Se	72	1	48.35 ug/l	0.00	1.79	2000	Se
88	Sr	72	2	78.63 ug/l	0.00	1.06	5000	Sr
89	Y	72	1	48.18 ug/l	0.00	1.09	2000	Y
90	Zr	72	1	95.14 ug/l	0.00	1.11	2000	Zr
93	Nb	72	1	18.25 ug/l	0.00	4.49	2000	Nb
95	Mo	72	2	54.11 ug/l	0.00	0.53	2000	Mo
101	Ru	72	1	0.00 ug/l	0.00	234.31	2000	Ru
103	Rh	72	1	0.00 ug/l	0.00	512.45	2000	Rh
105	Pd	72	1	0.09 ug/l	0.00	7.59	2000	Pd
107	Ag	115	2	18.67 ug/l	0.00	0.61	400	Ag
111	Cd	115	2	4.95 ug/l	0.00	1.17	2000	Cd
118	Sn	115	2	21.87 ug/l	0.00	0.77	2000	Sn
121	Sb	165	2	46.92 ug/l	0.00	0.78	1000	Sb
125	Te	165	1	0.04 ug/l	0.00	95.66	2000	Te
133	Cs	165	1	2.48 ug/l	0.00	0.80	2000	Cs
137	Ba	165	2	149.00 ug/l	0.00	0.60	5000	Ba
139	La	165	1	75.56 ug/l	0.00	1.34	2000	La
140	Ce	165	1	156.10 ug/l	0.00	1.50	2000	Ce
141	Pr	165	1	17.65 ug/l	0.00	0.99	2000	Pr
146	Nd	165	1	61.91 ug/l	0.00	0.74	2000	Nd
147	Sm	165	2	106.20 ug/l	0.00	1.25	2000	Sm
178	Hf	165	1	7.93 ug/l	0.00	9.52	2000	Hf
181	Ta	165	1	1.34 ug/l	0.00	21.97	2000	Ta
182	W	197	1	54.46 ug/l	0.00	0.69	2000	W
195	Pt	197	1	0.03 ug/l	0.00	4.84	2000	Pt
205	Tl	197	2	21.08 ug/l	0.00	0.18	2000	Tl
206	(Pb)	197	2	52.49 ug/l	0.00	1.32	2000	(Pb)
207	(Pb)	197	2	51.63 ug/l	0.00	0.90	2000	(Pb)
208	Pb	197	2	52.79 ug/l	0.00	1.24	5000	Pb
209	Bi	197	1	1.58 ug/l	0.00	0.76	2000	Bi
232	Th	197	2	44.09 ug/l	0.00	3.60	2000	Th
238	U	197	2	11.99 ug/l	0.00	0.97	2000	U

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7103187	2.39	5986087	118.7	70 - 140	Li	
45	Sc	1	513168	0.38	509565	100.7	70 - 140	Sc	
45	Sc	2	7612513	0.38	6903232	110.3	70 - 140	Sc	
72	Ge	1	291827	0.72	275046	106.1	70 - 140	Ge	
72	Ge	2	1504010	0.44	1427904	105.3	70 - 140	Ge	
115	In	2	8962667	0.66	8556655	104.7	70 - 140	In	
165	Ho	1	6863784	0.75	6247878	109.9	70 - 140	Ho	
165	Ho	2	12101825	0.04	11326620	106.8	70 - 140	Ho	
197	Au	1	2168952	1.00	2087035	103.9	70 - 140	Au	
197	Au	2	2622692	0.20	2625939	99.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0598MPL.D\0598MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0598MPL.D\0598MPL.D#
Date Acquired: Apr 13 2010 08:08 pm
Operator:
Sample Name: LW48P
Misc Info:
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	65.49 ug/l	0.00	0.92	1000	Li	
9	Be	6		2	1.67 ug/l	0.00	2.02	1000	Be	
11	B	6		2	13.27 ug/l	0.00	4.47	2000	B	
23	Na	45		1	758.80 ug/l	0.00	1.58	200000	Na	
24	Mg	45		1	2847.00 ug/l	0.00	0.98	200000	Mg	
27	Al	45		1	12170.00 ug/l	0.00	0.37	200000	Al	
28	Si	45		2	1153.00 ug/l	0.00	0.86	200000	Si	
29	Si	45		2	1164.00 ug/l	0.00	1.56	200000	Si	
31	P	45		1	257.20 ug/l	0.00	2.53	200000	P	
34	S	45		1	196.40 ug/l	0.00	28.02	200000	S	
34	S	45		2	74.54 ug/l	0.00	21.69	200000	S	
39	K	45		1	2462.00 ug/l	0.00	0.77	200000	K	
44	Ca	45		2	6870.00 ug/l	0.00	1.02	200000	Ca	
47	Ti	72		2	345.30 ug/l	0.00	0.75	5000	Ti	
51	V	72		1	24.40 ug/l	0.00	0.66	2000	V	
52	Cr	72		1	13.00 ug/l	0.00	0.57	2000	Cr	
55	Mn	72		1	817.50 ug/l	0.00	0.83	5000	Mn	
57	Fe	72		1	22690.00 ug/l	0.00	0.97	200000	Fe	
59	Co	72		1	5.82 ug/l	0.00	0.63	2000	Co	
60	Ni	72		1	13.57 ug/l	0.00	1.38	2000	Ni	
63	Cu	72		1	10.38 ug/l	0.00	0.83	5000	Cu	
66	Zn	72		1	77.86 ug/l	0.00	0.84	5000	Zn	
75	As	72		1	7.07 ug/l	0.00	1.95	2000	As	
78	Se	72		1	5.37 ug/l	0.00	1.74	2000	Se	
88	Sr	72		2	49.36 ug/l	0.00	1.73	5000	Sr	
89	Y	72		1	65.01 ug/l	0.00	0.56	2000	Y	
90	Zr	72		1	46.74 ug/l	0.00	1.37	2000	Zr	
93	Nb	72		1	17.72 ug/l	0.00	0.24	2000	Nb	
95	Mo	72		2	8.82 ug/l	0.00	0.72	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	37.12	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	65.77	2000	Rh	
105	Pd	72		1	0.12 ug/l	0.00	10.26	2000	Pd	
107	Ag	115		2	0.11 ug/l	0.00	4.43	400	Ag	
111	Cd	115		2	0.14 ug/l	0.00	4.50	2000	Cd	
118	Sn	115		2	3.49 ug/l	0.00	2.21	2000	Sn	
121	Sb	165		2	0.52 ug/l	0.00	5.57	1000	Sb	
125	Te	165		1	0.04 ug/l	0.00	18.34	2000	Te	
133	Cs	165		1	2.32 ug/l	0.00	2.23	2000	Cs	
137	Ba	165		2	156.00 ug/l	0.00	1.71	5000	Ba	
139	La	165		1	105.30 ug/l	0.00	1.58	2000	La	
140	Ce	165		1	210.30 ug/l	0.00	1.06	2000	Ce	
141	Pr	165		1	24.39 ug/l	0.00	1.81	2000	Pr	
146	Nd	165		1	85.73 ug/l	0.00	1.94	2000	Nd	
147	Sm	165		2	15.95 ug/l	0.00	1.72	2000	Sm	
178	Hf	165		1	1.29 ug/l	0.00	0.27	2000	Hf	
181	Ta	165		1	-0.36 ug/l	0.00	19.56	2000	Ta	
182	W	197		1	3.03 ug/l	0.00	5.14	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	28.66	2000	Pt	
205	Tl	197		2	0.74 ug/l	0.00	3.69	2000	Tl	
206	(Pb)	197		2	21.69 ug/l	0.00	1.99	2000	(Pb)	
207	(Pb)	197		2	20.84 ug/l	0.00	1.03	2000	(Pb)	
208	Pb	197		2	21.39 ug/l	0.00	0.99	5000	Pb	
209	Bi	197		1	2.41 ug/l	0.00	0.55	2000	Bi	
232	Th	197		2	15.03 ug/l	0.00	0.80	2000	Th	
238	U	197		2	2.13 ug/l	0.00	2.41	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7160418	0.67	5986087	119.6	70 - 140	Li	
45	Sc	1	523617	0.30	509565	102.8	70 - 140	Sc	
45	Sc	2	7747158	0.97	6903232	112.2	70 - 140	Sc	
72	Ge	1	298091	0.70	275045	108.4	70 - 140	Ge	
72	Ge	2	1499701	0.34	1427904	105.0	70 - 140	Ge	
115	In	2	8957334	0.92	8556655	105.2	70 - 140	In	
165	Ho	1	6798914	1.39	6247878	108.8	70 - 140	Ho	
165	Ho	2	12259577	1.61	11326620	108.2	70 - 140	Ho	
197	Au	1	2143148	0.67	2087035	102.7	70 - 140	Au	
197	Au	2	2604585	0.54	2625939	99.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\060SMPL.D\060SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\060SMPL.D\060SMPL.D#
Date Acquired: Apr 13 2010 08:16 pm
Operator:
Sample Name: LW48R
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7 Li	6		2	27.76 ug/l	0.00	1.61	1000	Li
9 Be	6		2	2.19 ug/l	0.00	1.89	1000	Be
11 B	6		2	10.76 ug/l	0.00	3.32	2000	B
23 Na	45		1	225.00 ug/l	0.00	0.83	200000	Na
24 Mg	45		1	4551.00 ug/l	0.00	0.69	200000	Mg
27 Al	45		1	21100.00 ug/l	0.00	2.22	200000	Al
28 Si	45		2	2282.00 ug/l	0.00	0.78	200000	Si
29 Si	45		2	2269.00 ug/l	0.00	0.82	200000	Si
31 P	45		1	213.00 ug/l	0.00	2.82	200000	P
34 S	45		1	137.80 ug/l	0.00	37.11	200000	S
34 S	45		2	13.46 ug/l	0.00	111.96	200000	S
39 K	45		1	3261.00 ug/l	0.00	0.28	200000	K
44 Ca	45		2	11240.00 ug/l	0.00	0.61	200000	Ca
47 Ti	72		2	363.80 ug/l	0.00	1.39	5000	Ti
51 V	72		1	37.68 ug/l	0.00	0.54	2000	V
52 Cr	72		1	15.96 ug/l	0.00	0.86	2000	Cr
55 Mn	72		1	776.80 ug/l	0.00	0.50	5000	Mn
57 Fe	72		1	28230.00 ug/l	0.00	0.35	200000	Fe
59 Co	72		1	9.03 ug/l	0.00	1.05	2000	Co
60 Ni	72		1	18.97 ug/l	0.00	0.35	2000	Ni
63 Cu	72		1	13.97 ug/l	0.00	0.65	5000	Cu
66 Zn	72		1	80.75 ug/l	0.00	0.95	5000	Zn
75 As	72		1	8.18 ug/l	0.00	1.30	2000	As
78 Se	72		1	5.14 ug/l	0.00	1.34	2000	Se
88 Sr	72		2	82.10 ug/l	0.00	1.51	5000	Sr
89 Y	72		1	59.38 ug/l	0.00	0.20	2000	Y
90 Zr	72		1	59.19 ug/l	0.00	1.28	2000	Zr
93 Nb	72		1	13.83 ug/l	0.00	0.94	2000	Nb
95 Mo	72		2	6.50 ug/l	0.00	1.55	2000	Mo
101 Ru	72		1	0.00 ug/l	0.00	254.01	2000	Ru
103 Rh	72		1	0.00 ug/l	0.00	131.49	2000	Rh
105 Pd	72		1	0.12 ug/l	0.00	3.45	2000	Pd
107 Ag	115		2	0.18 ug/l	0.00	3.43	600	Ag
111 Cd	115		2	0.13 ug/l	0.00	6.47	2000	Cd
118 Sn	115		2	3.12 ug/l	0.00	1.42	2000	Sn
121 Sb	165		2	0.41 ug/l	0.00	4.39	1000	Sb
125 Te	165		1	0.01 ug/l	0.00	545.88	2000	Te
133 Cs	165		1	2.98 ug/l	0.00	3.18	2000	Cs
137 Ba	165		2	313.90 ug/l	0.00	1.20	5000	Ba
139 La	165		1	104.20 ug/l	0.00	0.80	2000	La
140 Ce	165		1	205.40 ug/l	0.00	0.22	2000	Ce
141 Pr	165		1	23.59 ug/l	0.00	0.99	2000	Pr
146 Nd	165		1	81.68 ug/l	0.00	1.60	2000	Nd
147 Sm	165		2	15.16 ug/l	0.00	0.94	2000	Sm
178 Hf	165		1	1.65 ug/l	0.00	1.00	2000	Hf
181 Ta	165		1	-0.48 ug/l	0.00	8.99	2000	Ta
182 W	197		1	1.83 ug/l	0.00	2.48	2000	W
195 Pt	197		1	0.01 ug/l	0.00	55.65	2000	Pt
205 Tl	197		2	0.55 ug/l	0.00	0.92	2000	Tl
206 (Pb)	197		2	25.21 ug/l	0.00	1.21	2000	(Pb)
207 (Pb)	197		2	23.97 ug/l	0.00	1.75	2000	(Pb)
208 Pb	197		2	24.80 ug/l	0.00	0.96	5000	Pb
209 Bi	197		1	4.62 ug/l	0.00	0.68	2000	Bi
232 Th	197		2	20.22 ug/l	0.00	0.63	2000	Th
238 U	197		2	2.02 ug/l	0.00	1.20	2000	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6 Li	2	7194024	0.82	5986087	120.2	70 - 140	Li
45 Sc	1	532728	1.01	509565	104.5	70 - 140	Sc
45 Sc	2	7827304	0.63	6903232	113.4	70 - 140	Sc
72 Ge	1	297794	0.65	275046	108.3	70 - 140	Ge
72 Ge	2	1500453	0.92	1427904	105.1	70 - 140	Ge
115 In	2	8971942	0.41	8556655	104.9	70 - 140	In
165 Ho	1	6759264	1.07	6247878	108.8	70 - 140	Ho
165 Ho	2	12059851	1.37	11326620	106.5	70 - 140	Ho
197 Au	1	2137537	0.51	2087035	102.4	70 - 140	Au
197 Au	2	2569934	0.12	2625939	97.9	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\061SMPL.D\061SMPL.D#
Date Acquired: Apr 13 2010 08:23 pm
Operator:
Sample Name: LN48T
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	88.95 ug/l	0.00	1.13	1000	Li	
9	Be	6	2	1.94 ug/l	0.00	0.04	1000	Be	
11	B	6	2	9.74 ug/l	0.00	1.28	2000	B	
23	Na	45	1	1006.00 ug/l	0.00	0.90	200000	Na	
24	Mg	45	1	3593.00 ug/l	0.00	0.51	200000	Mg	
27	Al	45	1	15460.00 ug/l	0.00	0.60	200000	Al	
28	Si	45	2	2538.00 ug/l	0.00	3.01	200000	Si	
29	Si	45	2	2433.00 ug/l	0.00	1.37	200000	Si	
31	P	45	1	227.00 ug/l	0.00	1.93	200000	P	
34	S	45	1	29.83 ug/l	0.00	96.35	200000	S	
34	S	45	2	-124.70 ug/l	0.00	10.19	200000	S	
39	K	45	1	2142.00 ug/l	0.00	0.62	200000	K	
44	Ca	45	2	7971.00 ug/l	0.00	1.33	200000	Ca	
47	Ti	72	2	453.20 ug/l	0.00	1.70	5000	Ti	
51	V	72	1	30.79 ug/l	0.00	0.61	2000	V	
52	Cr	72	1	13.98 ug/l	0.00	1.10	2000	Cr	
55	Mn	72	1	877.10 ug/l	0.00	1.52	5000	Mn	
57	Fe	72	1	26170.00 ug/l	0.00	1.43	200000	Fe	
59	Co	72	1	6.12 ug/l	0.00	0.64	2000	Co	
60	Ni	72	1	15.24 ug/l	0.00	0.39	2000	Ni	
63	Cu	72	1	10.92 ug/l	0.00	1.27	5000	Cu	
66	Zn	72	1	83.71 ug/l	0.00	1.03	5000	Zn	
75	As	72	1	7.97 ug/l	0.00	1.69	2000	As	
78	Se	72	1	5.44 ug/l	0.00	1.89	2000	Se	
88	Sr	72	2	58.27 ug/l	0.00	1.18	5000	Sr	
89	Y	72	1	78.98 ug/l	0.00	0.58	2000	Y	
90	Zr	72	1	56.55 ug/l	0.00	0.41	2000	Zr	
93	Nb	72	1	19.40 ug/l	0.00	2.10	2000	Nb	
98	Mo	72	2	7.97 ug/l	0.00	1.75	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	1076.60	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	39.21	2000	Rh	
105	Pd	72	1	0.15 ug/l	0.00	5.40	2000	Pd	
107	Ag	115	2	0.14 ug/l	0.00	3.20	400	Ag	
111	Cd	115	2	0.12 ug/l	0.00	6.19	2000	Cd	
118	Sn	115	2	3.78 ug/l	0.00	1.15	2000	Sn	
121	Sb	165	2	0.38 ug/l	0.00	5.80	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	275.84	2000	Te	
133	Cs	165	1	2.37 ug/l	0.00	3.63	2000	Cs	
137	Ba	165	2	196.30 ug/l	0.00	1.35	5000	Ba	
139	La	165	1	126.40 ug/l	0.00	1.95	2000	La	
140	Ce	165	1	252.80 ug/l	0.00	1.27	2000	Ce	
141	Pr	165	1	29.45 ug/l	0.00	1.94	2000	Pr	
146	Nd	165	1	103.60 ug/l	0.00	2.18	2000	Nd	
147	Sm	165	2	19.34 ug/l	0.00	0.87	2000	Sm	
178	Hf	165	1	1.67 ug/l	0.00	2.36	2000	Hf	
181	Ta	165	1	-0.48 ug/l	0.00	7.40	2000	Ta	
182	W	197	1	2.56 ug/l	0.00	1.54	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	32.66	2000	Pt	
205	Tl	197	2	0.47 ug/l	0.00	2.71	2000	Tl	
206	(Pb)	197	2	28.01 ug/l	0.00	0.16	2000	(Pb)	
207	(Pb)	197	2	26.97 ug/l	0.00	1.23	2000	(Pb)	
208	Pb	197	2	27.72 ug/l	0.00	0.86	5000	Pb	
209	Bi	197	1	2.36 ug/l	0.00	0.91	2000	Bi	
232	Th	197	2	21.12 ug/l	0.00	1.49	2000	Th	
238	U	197	2	3.09 ug/l	0.00	1.02	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7068941	0.27	5986087	118.1	70 - 140	Li	
45	Sc	1	528649	0.56	509565	103.7	70 - 140	Sc	
45	Sc	2	7791725	0.82	6903232	112.9	70 - 140	Sc	
72	Ge	1	301479	0.51	275046	109.6	70 - 140	Ge	
72	Ge	2	1527702	0.88	1427904	107.0	70 - 140	Ge	
115	In	2	8923502	0.27	8556655	104.3	70 - 140	In	
165	Ho	1	6805723	1.71	6247878	108.9	70 - 140	Ho	
165	Ho	2	12156309	1.40	11326620	107.3	70 - 140	Ho	
197	Au	1	2116798	0.92	2087035	101.4	70 - 140	Au	
197	Au	2	2568521	0.09	2625939	97.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0628MPL.D\0628MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0628MPL.D\0628MPL.D#
Date Acquired: Apr 13 2010 08:30 pm
Operator:
Sample Name: LN48W
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	38.26 ug/l	0.00	1.94	1000	Li	
9	Be	6	2	1.81 ug/l	0.00	1.56	1000	Be	
11	B	6	2	9.04 ug/l	0.00	4.13	2000	B	
23	Na	45	1	193.70 ug/l	0.00	0.53	200000	Na	
24	Mg	45	1	3488.00 ug/l	0.00	0.71	200000	Mg	
27	Al	45	1	17070.00 ug/l	0.00	0.37	200000	Al	
28	Si	45	2	1835.00 ug/l	0.00	1.45	200000	Si	
29	Si	45	2	1834.00 ug/l	0.00	1.04	200000	Si	
31	P	45	1	278.70 ug/l	0.00	0.41	200000	P	
34	S	45	1	153.30 ug/l	0.00	56.15	200000	S	
34	S	45	2	-39.47 ug/l	0.00	19.18	200000	S	
39	K	45	1	3184.00 ug/l	0.00	1.58	200000	K	
44	Ca	45	2	7676.00 ug/l	0.00	0.14	200000	Ca	
47	Ti	72	2	387.00 ug/l	0.00	1.54	5000	Ti	
51	V	72	1	27.42 ug/l	0.00	0.10	2000	V	
52	Cr	72	1	11.89 ug/l	0.00	1.50	2000	Cr	
55	Mn	72	1	764.40 ug/l	0.00	0.65	5000	Mn	
57	Fe	72	1	25400.00 ug/l	0.00	1.09	200000	Fe	
59	Co	72	1	5.06 ug/l	0.00	1.06	2000	Co	
60	Ni	72	1	14.71 ug/l	0.00	0.78	2000	Ni	
63	Cu	72	1	12.53 ug/l	0.00	1.34	5000	Cu	
66	Zn	72	1	79.06 ug/l	0.00	0.91	5000	Zn	
75	As	72	1	7.57 ug/l	0.00	0.68	2000	As	
78	Se	72	1	5.22 ug/l	0.00	2.15	2000	Se	
88	Sr	72	2	54.38 ug/l	0.00	0.45	5000	Sr	
89	Y	72	1	63.56 ug/l	0.00	0.87	2000	Y	
90	Zr	72	1	55.74 ug/l	0.00	1.96	2000	Zr	
93	Nb	72	1	22.61 ug/l	0.00	1.59	2000	Nb	
95	Mo	72	2	5.44 ug/l	0.00	1.08	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	21.68	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	14.35	2000	Rh	
105	Pd	72	1	0.13 ug/l	0.00	5.39	2000	Pd	
107	Ag	115	2	0.14 ug/l	0.00	5.45	400	Ag	
111	Cd	115	2	0.19 ug/l	0.00	6.84	2000	Cd	
118	Sn	115	2	3.43 ug/l	0.00	2.34	2000	Sn	
121	Sb	165	2	0.32 ug/l	0.00	4.72	1000	Sb	
125	Te	165	1	0.08 ug/l	0.00	43.98	2000	Te	
133	Cs	165	1	2.74 ug/l	0.00	1.44	2000	Cs	
137	Ba	165	2	161.90 ug/l	0.00	0.48	5000	Ba	
139	La	165	1	104.20 ug/l	0.00	1.09	2000	La	
140	Ce	165	1	207.10 ug/l	0.00	1.10	2000	Ce	
141	Pr	165	1	24.10 ug/l	0.00	0.59	2000	Pr	
146	Nd	165	1	82.83 ug/l	0.00	1.32	2000	Nd	
147	Sm	165	2	15.44 ug/l	0.00	1.27	2000	Sm	
178	Hf	165	1	1.51 ug/l	0.00	1.46	2000	Hf	
181	Ta	165	1	-0.43 ug/l	0.00	10.65	2000	Ta	
182	W	197	1	2.11 ug/l	0.00	4.28	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	20.82	2000	Pt	
205	Tl	197	2	0.42 ug/l	0.00	3.19	2000	Tl	
206	(Pb)	197	2	22.79 ug/l	0.00	1.74	2000	(Pb)	
207	(Pb)	197	2	22.18 ug/l	0.00	0.05	2000	(Pb)	
208	Pb	197	2	22.70 ug/l	0.00	0.27	5000	Pb	
209	Bi	197	1	1.74 ug/l	0.00	1.14	2000	Bi	
232	Th	197	2	18.24 ug/l	0.00	1.02	2000	Th	
238	U	197	2	2.26 ug/l	0.00	1.38	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7192221	1.41	5986087	120.1	70 - 140	Li	
45	Sc	1	527381	0.91	509565	103.5	70 - 140	Sc	
45	Sc	2	7869311	0.68	6903232	114.0	70 - 140	Sc	
72	Ge	1	300761	0.76	275046	109.3	70 - 140	Ge	
72	Ge	2	1521342	1.00	1427904	106.5	70 - 140	Ge	
115	In	2	8957190	1.14	8556655	104.7	70 - 140	In	
165	Ho	1	6817078	0.65	6247878	109.1	70 - 140	Ho	
165	Ho	2	12276006	1.33	11326620	108.4	70 - 140	Ho	
197	Au	1	2144554	0.26	2087035	102.8	70 - 140	Au	
197	Au	2	2606684	0.84	2625939	99.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0636MPL.D\0636MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0636MPL.D\0636MPL.D#
Date Acquired: Apr 13 2010 08:37 pm
Operator:
Sample Name: LW480
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li		6	2	21.17 ug/l	0.00	1.38	1000	Li	
9	Be		6	2	1.59 ug/l	0.00	0.95	1000	Be	
11	B		6	2	5.86 ug/l	0.00	2.86	2000	B	
23	Na		45	1	184.80 ug/l	0.00	0.12	200000	Na	
24	Mg		45	1	2636.00 ug/l	0.00	0.09	200000	Mg	
27	Al		45	1	13490.00 ug/l	0.00	0.97	200000	Al	
28	Si		45	2	1339.00 ug/l	0.00	1.47	200000	Si	
29	Si		45	2	1352.00 ug/l	0.00	1.25	200000	Si	
31	P		45	1	200.20 ug/l	0.00	1.03	200000	P	
34	S		45	1	8.35 ug/l	0.00	507.73	200000	S	
34	S		45	2	-195.90 ug/l	0.00	11.41	200000	S	
39	K		45	1	2783.00 ug/l	0.00	1.37	200000	K	
44	Ca		45	2	4579.00 ug/l	0.00	0.29	200000	Ca	
47	Ti		72	2	369.50 ug/l	0.00	0.40	5000	Ti	
51	V		72	1	26.61 ug/l	0.00	0.64	2000	V	
52	Cr		72	1	10.03 ug/l	0.00	1.47	2000	Cr	
55	Mn		72	1	748.30 ug/l	0.00	0.43	5000	Mn	
57	Fe		72	1	22290.00 ug/l	0.00	1.95	200000	Fe	
59	Co		72	1	7.38 ug/l	0.00	0.82	2000	Co	
60	Ni		72	1	12.88 ug/l	0.00	1.40	2000	Ni	
63	Cu		72	1	10.29 ug/l	0.00	0.70	5000	Cu	
66	Zn		72	1	71.65 ug/l	0.00	1.09	5000	Zn	
75	As		72	1	6.96 ug/l	0.00	0.67	2000	As	
78	Se		72	1	5.15 ug/l	0.00	2.88	2000	Se	
88	Sr		72	2	34.21 ug/l	0.00	0.26	5000	Sr	
89	Y		72	1	62.63 ug/l	0.00	0.78	2000	Y	
90	Zr		72	1	54.48 ug/l	0.00	0.62	2000	Zr	
93	Nb		72	1	21.26 ug/l	0.00	0.17	2000	Nb	
95	Mo		72	2	7.25 ug/l	0.00	1.70	2000	Mo	
101	Ru		72	1	0.00 ug/l	0.00	562.36	2000	Ru	
103	Rh		72	1	0.00 ug/l	0.00	96.66	2000	Rh	
105	Pd		72	1	0.12 ug/l	0.00	5.39	2000	Pd	
107	Ag		115	2	0.14 ug/l	0.00	5.86	400	Ag	
111	Cd		115	2	0.12 ug/l	0.00	17.89	2000	Cd	
118	Sn		115	2	3.01 ug/l	0.00	1.02	2000	Sn	
121	Sb		165	2	0.26 ug/l	0.00	3.57	1000	Sb	
125	Te		165	1	0.00 ug/l	0.00	499.79	2000	Te	
133	Cs		165	1	2.12 ug/l	0.00	0.84	2000	Cs	
137	Ba		165	2	176.40 ug/l	0.00	1.94	5000	Ba	
139	La		165	1	102.50 ug/l	0.00	0.96	2000	La	
140	Ce		165	1	215.90 ug/l	0.00	0.71	2000	Ce	
141	Pr		165	1	23.85 ug/l	0.00	1.26	2000	Pr	
146	Nd		165	1	82.26 ug/l	0.00	0.63	2000	Nd	
147	Sm		165	2	15.44 ug/l	0.00	0.72	2000	Sm	
178	Hf		165	1	1.59 ug/l	0.00	0.74	2000	Hf	
181	Ta		165	1	-0.47 ug/l	0.00	8.93	2000	Ta	
182	W		197	1	2.76 ug/l	0.00	1.02	2000	W	
195	Pt		197	1	0.01 ug/l	0.00	13.53	2000	Pt	
205	Tl		197	2	0.34 ug/l	0.00	3.07	2000	Tl	
206	(Pb)		197	2	24.25 ug/l	0.00	1.06	2000	(Pb)	
207	(Pb)		197	2	23.04 ug/l	0.00	0.56	2000	(Pb)	
208	Pb		197	2	23.71 ug/l	0.00	0.24	5000	Pb	
209	Bi		197	1	3.37 ug/l	0.00	0.66	2000	Bi	
232	Th		197	2	16.94 ug/l	0.00	3.30	2000	Th	
238	U		197	2	1.96 ug/l	0.00	0.57	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7120613	0.61	5986087	119.0	70 - 140	Li	
45	Sc	1	524718	0.33	509565	103.0	70 - 140	Sc	
45	Sc	2	7857103	0.93	6903232	113.8	70 - 140	Sc	
72	Ge	1	298964	0.62	275046	108.7	70 - 140	Ge	
72	Ge	2	1549360	0.77	1427904	108.5	70 - 140	Ge	
115	In	2	8987381	1.29	8556655	105.0	70 - 140	In	
165	Ho	1	6816144	0.58	6247878	109.1	70 - 140	Ho	
165	Ho	2	12153289	1.28	11326620	107.3	70 - 140	Ho	
197	Au	1	2145641	0.74	2087035	102.8	70 - 140	Au	
197	Au	2	2605002	1.49	2625939	99.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\064SMPL.D\064SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\064SMPL.D\064SMPL.D#
Date Acquired: Apr 13 2010 08:44 pm
Operator:
Sample Name: LW490
Misc Info:
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	28.87 ug/l	0.00	1.35	1000	Li	
9	Be	6		2	2.20 ug/l	0.00	1.30	1000	Be	
11	B	6		2	6.66 ug/l	0.00	4.97	2000	B	
23	Na	45		1	182.68 ug/l	0.00	0.50	200000	Na	
24	Mg	45		1	3645.00 ug/l	0.00	0.72	200000	Mg	
27	Al	45		1	18260.00 ug/l	0.00	0.69	200000	Al	
28	Si	45		2	1850.00 ug/l	0.00	1.06	200000	Si	
29	Si	45		2	1849.00 ug/l	0.00	2.02	200000	Si	
31	P	45		1	262.50 ug/l	0.00	2.22	200000	P	
34	S	45		1	-39.68 ug/l	0.00	104.71	200000	S	
34	S	45		2	-266.40 ug/l	0.00	5.08	200000	S	
39	K	45		1	3656.00 ug/l	0.00	0.57	200000	K	
44	Ca	45		2	5147.00 ug/l	0.00	0.31	200000	Ca	
47	Ti	72		2	385.90 ug/l	0.00	1.26	5000	Ti	
51	V	72		1	34.40 ug/l	0.00	1.04	2000	V	
52	Cr	72		1	13.76 ug/l	0.00	0.74	2000	Cr	
55	Mn	72		1	718.30 ug/l	0.00	1.86	5000	Mn	
57	Fe	72		1	26780.00 ug/l	0.00	2.01	200000	Fe	
59	Co	72		1	6.91 ug/l	0.00	0.83	2000	Co	
60	Ni	72		1	15.48 ug/l	0.00	1.08	2000	Ni	
63	Cu	72		1	12.73 ug/l	0.00	0.60	5000	Cu	
66	Zn	72		1	78.18 ug/l	0.00	0.72	5000	Zn	
75	As	72		1	7.74 ug/l	0.00	2.40	2000	As	
78	Se	72		1	5.07 ug/l	0.00	2.54	2000	Se	
88	Sr	72		2	41.60 ug/l	0.00	1.13	5000	Sr	
89	Y	72		1	61.15 ug/l	0.00	1.12	2000	Y	
90	Zr	72		1	52.19 ug/l	0.00	2.54	2000	Zr	
93	Nb	72		1	13.47 ug/l	0.00	0.34	2000	Nb	
95	Mo	72		2	6.64 ug/l	0.00	1.56	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	286.43	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	115.42	2000	Rh	
105	Pd	72		1	0.12 ug/l	0.00	4.00	2000	Pd	
107	Ag	115		2	0.13 ug/l	0.00	0.98	400	Ag	
111	Cd	115		2	0.15 ug/l	0.00	1.59	2000	Cd	
118	Sn	115		2	2.94 ug/l	0.00	2.09	2000	Sn	
121	Sb	165		2	0.31 ug/l	0.00	6.13	1000	Sb	
125	Te	165		1	0.01 ug/l	0.00	250.60	1000	Te	
133	Cs	165		1	2.94 ug/l	0.00	1.04	2000	Cs	
137	Ba	165		2	204.30 ug/l	0.00	2.23	5000	Ba	
139	La	165		1	98.02 ug/l	0.00	0.85	2000	La	
140	Ce	165		1	200.30 ug/l	0.00	1.17	2000	Ce	
141	Pr	165		1	23.02 ug/l	0.00	1.00	2000	Pr	
146	Nd	165		1	80.90 ug/l	0.00	0.57	2000	Nd	
147	Sm	165		2	15.01 ug/l	0.00	1.39	2000	Sm	
178	Hf	165		1	1.44 ug/l	0.00	1.26	2000	Hf	
181	Ta	165		1	-0.54 ug/l	0.00	5.97	2000	Ta	
182	W	197		1	1.49 ug/l	0.00	1.76	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	28.93	2000	Pt	
205	Tl	197		2	0.35 ug/l	0.00	2.38	2000	Tl	
206	(Pb)	197		2	24.40 ug/l	0.00	0.14	2000	(Pb)	
207	(Pb)	197		2	23.39 ug/l	0.00	0.77	2000	(Pb)	
208	Pb	197		2	24.21 ug/l	0.00	0.83	5000	Pb	
209	Bi	197		1	4.08 ug/l	0.00	1.05	2000	Bi	
232	Th	197		2	18.58 ug/l	0.00	1.31	2000	Th	
238	U	197		2	1.74 ug/l	0.00	0.32	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7010873	1.24	5986087	117.1	70 - 140	Li	
45	Sc	1	526378	0.32	509565	103.3	70 - 140	Sc	
45	Sc	2	7822533	0.63	6903232	113.3	70 - 140	Sc	
72	Ge	1	297105	0.80	275046	108.0	70 - 140	Ge	
72	Ge	2	1518895	0.38	1427904	106.4	70 - 140	Ge	
115	In	2	8914542	0.30	8556655	104.2	70 - 140	In	
165	Ho	1	6736908	0.72	6247878	107.8	70 - 140	Ho	
165	Ho	2	12151717	1.57	11326626	107.3	70 - 140	Ho	
197	Au	1	2120532	0.48	2087035	101.6	70 - 140	Au	
197	Au	2	2599776	0.61	2625939	99.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\065SMPL.D\065SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\065SMPL.D\065SMPL.D#
Date Acquired: Apr 13 2010 08:51 pm
Operator:
Sample Name: LW5AX
Misc Info:
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	34.63 ug/l	0.00	2.32	1000	Li	
9	Be	6		2	2.05 ug/l	0.00	1.98	1000	Be	
11	B	6		2	7.51 ug/l	0.00	2.15	2000	B	
23	Na	45		1	242.90 ug/l	0.00	1.04	200000	Na	
24	Mg	45		1	3780.00 ug/l	0.00	1.25	200000	Mg	
27	Al	45		1	16140.00 ug/l	0.00	1.00	200000	Al	
28	Si	45		2	1451.00 ug/l	0.00	1.40	200000	Si	
29	Si	45		2	1444.00 ug/l	0.00	2.18	200000	Si	
31	P	45		1	219.20 ug/l	0.00	1.35	200000	P	
34	S	45		1	87.97 ug/l	0.00	9.53	200000	S	
34	S	45		2	22.28 ug/l	0.00	133.71	200000	S	
39	K	45		1	2627.00 ug/l	0.00	1.17	200000	K	
44	Ca	45		2	7912.00 ug/l	0.00	1.22	200000	Ca	
47	Ti	72		2	382.00 ug/l	0.00	0.72	5000	Ti	
51	V	72		1	28.12 ug/l	0.00	0.93	2000	V	
52	Cr	72		1	17.98 ug/l	0.00	0.56	2000	Cr	
55	Mn	72		1	851.00 ug/l	0.00	2.35	5000	Mn	
57	Fe	72		1	25150.00 ug/l	0.00	1.46	200000	Fe	
59	Co	72		1	5.11 ug/l	0.00	0.75	2000	Co	
60	Ni	72		1	18.78 ug/l	0.00	0.47	2000	Ni	
63	Cu	72		1	17.74 ug/l	0.00	0.91	5000	Cu	
66	Zn	72		1	112.00 ug/l	0.00	0.30	5000	Zn	
75	As	72		1	7.65 ug/l	0.00	0.49	2000	As	
78	Se	72		1	5.54 ug/l	0.00	5.38	2000	Se	
88	Sr	72		2	57.45 ug/l	0.00	2.13	5000	Sr	
89	Y	72		1	68.57 ug/l	0.00	1.39	2000	Y	
90	Zr	72		1	57.99 ug/l	0.00	0.55	2000	Zr	
93	Nb	72		1	20.45 ug/l	0.00	0.80	2000	Nb	
95	Mo	72		2	4.64 ug/l	0.00	1.45	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	60.70	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	51.63	2000	Rh	
105	Pd	72		1	0.13 ug/l	0.00	4.19	2000	Pd	
107	Ag	115		2	0.22 ug/l	0.00	2.01	400	Ag	
111	Cd	115		2	0.33 ug/l	0.00	10.03	2000	Cd	
118	Sn	115		2	3.66 ug/l	0.00	0.61	2000	Sn	
121	Sb	165		2	0.56 ug/l	0.00	4.05	1000	Sb	
125	Te	165		1	0.02 ug/l	0.00	70.77	2000	Te	
133	Cs	165		1	9.46 ug/l	0.00	0.80	2000	Cs	
137	Ba	165		2	160.90 ug/l	0.00	1.39	5000	Ba	
139	La	165		1	114.00 ug/l	0.00	0.95	2000	La	
140	Ce	165		1	226.40 ug/l	0.00	1.79	2000	Ce	
141	Pr	165		1	25.68 ug/l	0.00	1.51	2000	Pr	
146	Nd	165		1	88.68 ug/l	0.00	1.50	2000	Nd	
147	Sm	165		2	16.47 ug/l	0.00	0.68	2000	Sm	
178	Hf	165		1	1.60 ug/l	0.00	2.37	2000	Hf	
181	Ta	165		1	-0.50 ug/l	0.00	7.29	2000	Ta	
182	W	197		1	1.90 ug/l	0.00	2.92	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	13.13	2000	Pt	
205	Tl	197		2	0.47 ug/l	0.00	1.84	2000	Tl	
206	(Pb)	197		2	44.58 ug/l	0.00	1.54	2000	(Pb)	
207	(Pb)	197		2	42.48 ug/l	0.00	1.18	2000	(Pb)	
208	Pb	197		2	43.60 ug/l	0.00	0.87	5000	Pb	
209	Bi	197		1	4.76 ug/l	0.00	0.31	2000	Bi	
232	Th	197		2	19.29 ug/l	0.00	0.91	2000	Th	
238	U	197		2	4.04 ug/l	0.00	0.67	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6981793	1.64	5986087	116.6	70 - 140	Li	
45	Sc	1	523712	0.79	509565	102.8	70 - 140	Sc	
45	Sc	2	7728972	0.69	6903232	112.0	70 - 140	Sc	
72	Ge	1	295125	0.77	275046	107.3	70 - 140	Ge	
72	Ge	2	1511827	0.64	1427904	105.9	70 - 140	Ge	
115	In	2	8810922	1.07	8556655	103.0	70 - 140	In	
165	Ho	1	6737689	0.73	6247878	107.8	70 - 140	Ho	
165	Ho	2	12057956	0.58	11326620	106.5	70 - 140	Ho	
197	Au	1	2093696	1.10	2087035	100.3	70 - 140	Au	
197	Au	2	2567099	1.09	2625939	97.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\066SMPL.D\066SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\066SMPL.D\066SMPL.D#
Date Acquired: Apr 13 2010 08:59 pm
Operator:
Sample Name: LW5A1
Misc Info:
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	21.43 ug/l	0.00	0.48	1000	Li	
9	Be	6	2	1.38 ug/l	0.00	1.56	1000	Be	
11	B	6	2	5.67 ug/l	0.00	2.39	2000	B	
23	Na	45	1	176.60 ug/l	0.00	4.16	200000	Na	
24	Mg	45	1	2587.00 ug/l	0.00	3.86	200000	Mg	
27	Al	45	1	12360.00 ug/l	0.00	3.81	200000	Al	
28	Si	45	2	2073.00 ug/l	0.00	1.80	200000	Si	
29	Si	45	2	2073.00 ug/l	0.00	1.77	200000	Si	
31	P	45	1	268.50 ug/l	0.00	2.71	200000	P	
34	S	45	1	102.10 ug/l	0.00	41.31	200000	S	
34	S	45	2	-131.00 ug/l	0.00	27.86	200000	S	
39	K	45	1	2384.00 ug/l	0.00	3.92	200000	K	
44	Ca	45	2	5103.00 ug/l	0.00	0.52	200000	Ca	
47	Ti	72	2	352.70 ug/l	0.00	1.31	5000	Ti	
51	V	72	1	24.04 ug/l	0.00	1.53	2000	V	
52	Cr	72	1	11.13 ug/l	0.00	1.99	2000	Cr	
55	Mn	72	1	802.60 ug/l	0.00	1.94	5000	Mn	
57	Fe	72	1	20820.00 ug/l	0.00	1.48	200000	Fe	
59	Co	72	1	5.19 ug/l	0.00	2.13	2000	Co	
60	Ni	72	1	12.64 ug/l	0.00	1.64	2000	Ni	
63	Cu	72	1	17.82 ug/l	0.00	1.49	5000	Cu	
66	Zn	72	1	111.10 ug/l	0.00	2.42	5000	Zn	
75	As	72	1	6.48 ug/l	0.00	1.83	2000	As	
78	Se	72	1	4.45 ug/l	0.00	2.68	2000	Se	
88	Sr	72	2	38.07 ug/l	0.00	0.69	5000	Sr	
89	Y	72	1	53.67 ug/l	0.00	1.52	2000	Y	
90	Zr	72	1	53.60 ug/l	0.00	1.82	2000	Zr	
93	Nb	72	1	23.51 ug/l	0.00	3.18	2000	Nb	
95	Mo	72	2	3.90 ug/l	0.00	1.57	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	130.25	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	208.42	2000	Rh	
105	Pd	72	1	0.09 ug/l	0.00	5.21	2000	Pd	
107	Ag	115	2	0.26 ug/l	0.00	3.83	400	Ag	
111	Cd	115	2	0.48 ug/l	0.00	5.69	2000	Cd	
118	Sn	115	2	3.43 ug/l	0.00	2.35	2000	Sn	
121	Sb	165	2	0.62 ug/l	0.00	2.38	1000	Sb	
125	Te	165	1	0.01 ug/l	0.00	252.80	2000	Te	
133	Cs	165	1	12.17 ug/l	0.00	1.89	2000	Cs	
137	Ba	165	2	139.30 ug/l	0.00	2.26	5000	Ba	
139	La	165	1	91.63 ug/l	0.00	2.07	2000	La	
140	Ce	165	1	190.70 ug/l	0.00	1.81	2000	Ce	
141	Pr	165	1	21.08 ug/l	0.00	1.84	2000	Pr	
146	Nd	165	1	73.31 ug/l	0.00	2.65	2000	Nd	
147	Sm	165	2	13.22 ug/l	0.00	2.85	2000	Sm	
178	Hf	165	1	1.46 ug/l	0.00	4.18	2000	Hf	
181	Ta	165	1	-0.41 ug/l	0.00	17.99	2000	Ta	
182	W	197	1	3.82 ug/l	0.00	0.89	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	26.17	2000	Pt	
205	Tl	197	2	0.37 ug/l	0.00	2.12	2000	Tl	
206	(Pb)	197	2	42.53 ug/l	0.00	0.63	2000	(Pb)	
207	(Pb)	197	2	40.81 ug/l	0.00	1.45	2000	(Pb)	
208	Pb	197	2	41.81 ug/l	0.00	1.52	5000	Pb	
209	Bi	197	1	2.37 ug/l	0.00	0.82	2000	Bi	
232	Th	197	2	14.64 ug/l	0.00	1.36	2000	Th	
238	U	197	2	3.32 ug/l	0.00	1.62	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7177662	0.45	5986087	119.9	70 - 140	Li	
45	Sc	1	508927	3.58	509565	99.9	70 - 140	Sc	
45	Sc	2	7805820	1.71	6903232	113.1	70 - 140	Sc	
72	Ge	1	294863	1.90	275046	107.2	70 - 140	Ge	
72	Ge	2	1523059	0.81	1427904	106.7	70 - 140	Ge	
115	In	2	9095922	0.40	8536655	106.3	70 - 140	In	
165	Ho	1	6733162	1.66	6247878	107.8	70 - 140	Ho	
165	Ho	2	12296696	1.94	11326620	108.6	70 - 140	Ho	
197	Au	1	2116082	0.37	2087035	101.4	70 - 140	Au	
197	Au	2	2634061	0.92	2625939	100.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\067SMPL.D\067SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\067SMPL.D\067SMPL.D#
Date Acquired: Apr 13 2010 09:06 pm
Operator:
Sample Name: LXNXX
Misc Info:
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	48.53 ug/l	0.00	0.84	1000	Li	
9	Be	6	2	6.69 ug/l	0.00	0.99	1000	Be	
11	B	6	2	10.84 ug/l	0.00	1.90	2000	B	
23	Na	45	1	6095.00 ug/l	0.00	2.33	200000	Na	
24	Mg	45	1	13390.00 ug/l	0.00	1.49	200000	Mg	
27	Al	45	1	59570.00 ug/l	0.00	2.05	200000	Al	
28	Si	45	2	3150.00 ug/l	0.00	0.26	200000	Si	
29	Si	45	2	3082.00 ug/l	0.00	0.27	200000	Si	
31	P	45	1	338.10 ug/l	0.00	0.49	200000	P	
34	S	45	1	602.20 ug/l	0.00	6.69	200000	S	
34	S	45	2	375.60 ug/l	0.00	3.51	200000	S	
39	K	45	1	3537.00 ug/l	0.00	1.38	200000	K	
44	Ca	45	2	22760.00 ug/l	0.00	0.45	200000	Ca	
47	Ti	72	2	366.10 ug/l	0.00	0.22	5000	Ti	
51	V	72	1	87.88 ug/l	0.00	0.75	2000	V	
52	Cr	72	1	56.76 ug/l	0.00	5.75	2000	Cr	
55	Mn	72	1	731.00 ug/l	0.00	1.81	5000	Mn	
57	Fe	72	1	56090.00 ug/l	0.00	1.73	200000	Fe	
59	Co	72	1	14.40 ug/l	0.00	0.57	2000	Co	
60	Ni	72	1	57.62 ug/l	0.00	0.71	2000	Ni	
63	Cu	72	1	74.59 ug/l	0.00	0.36	5000	Cu	
66	Zn	72	1	148.50 ug/l	0.00	0.75	5000	Zn	
75	As	72	1	15.61 ug/l	0.00	0.97	2000	As	
78	Se	72	1	5.40 ug/l	0.00	3.20	2000	Se	
88	Sr	72	2	214.10 ug/l	0.00	0.35	5000	Sr	
89	Y	72	1	50.79 ug/l	0.00	1.81	2000	Y	
90	Zr	72	1	78.45 ug/l	0.00	1.95	2000	Zr	
93	Nb	72	1	4.99 ug/l	0.00	0.19	2000	Nb	
95	Mo	72	2	2.60 ug/l	0.00	2.67	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	13618.00	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	18.14	2000	Rh	
105	Pd	72	1	0.11 ug/l	0.00	1.66	2000	Pd	
107	Ag	115	2	0.57 ug/l	0.00	2.03	400	Ag	
111	Cd	115	2	0.17 ug/l	0.00	3.17	2000	Cd	
118	Sn	115	2	3.96 ug/l	0.00	1.22	2000	Sn	
121	Sb	165	2	0.74 ug/l	0.00	2.03	1000	Sb	
125	Te	165	1	0.01 ug/l	0.00	197.27	2000	Te	
133	Cs	165	1	6.69 ug/l	0.00	2.13	2000	Cs	
137	Ba	165	2	329.30 ug/l	0.00	0.73	5000	Ba	
139	La	165	1	108.80 ug/l	0.00	0.14	2000	La	
140	Ce	165	1	244.60 ug/l	0.00	0.89	2000	Ce	
141	Pr	165	1	23.56 ug/l	0.00	0.86	2000	Pr	
146	Nd	165	1	82.24 ug/l	0.00	0.70	2000	Nd	
147	Sm	165	2	15.59 ug/l	0.00	0.57	2000	Sm	
178	Hf	165	1	1.76 ug/l	0.00	0.16	2000	Hf	
181	Ta	165	1	-0.58 ug/l	0.00	3.08	2000	Ta	
182	W	197	1	2.15 ug/l	0.00	2.46	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	30.08	2000	Pt	
205	Tl	197	2	0.70 ug/l	0.00	2.32	2000	Tl	
206	(Pb)	197	2	50.66 ug/l	0.00	0.83	2000	(Pb)	
207	(Pb)	197	2	47.85 ug/l	0.00	0.39	2000	(Pb)	
208	Pb	197	2	49.33 ug/l	0.00	0.18	5000	Pb	
209	Bi	197	1	8.11 ug/l	0.00	1.32	2000	Bi	
232	Th	197	2	41.31 ug/l	0.00	0.67	2000	Th	
238	U	197	2	3.84 ug/l	0.00	0.94	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6894232	0.19	5986087	115.2	70 - 140	Li	
45	Sc	1	554955	1.17	509565	108.9	70 - 140	Sc	
45	Sc	2	8347746	0.25	6903232	120.9	70 - 140	Sc	
72	Ge	1	293058	1.05	275046	106.6	70 - 140	Ge	
72	Ge	2	1516180	1.07	1427904	106.2	70 - 140	Ge	
115	In	2	8765516	0.71	8556655	102.4	70 - 140	In	
165	Ho	1	6683817	0.55	6247878	107.0	70 - 140	Ho	
165	Ho	2	11912784	0.70	11326620	105.2	70 - 140	Ho	
197	Au	1	2049964	0.85	2087035	98.2	70 - 140	Au	
197	Au	2	2518054	0.20	2625939	95.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\068_CCV.D\068_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\068_CCV.D\068_CCV.D#
Date Acquired: Apr 13 2010 09:13 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	94.52 ug/l	0.77	100	94.5	90 - 110	Li	
9 Be	6	2	92.53 ug/l	0.48	100	92.5	90 - 110	Be	
11 B	6	2	187.20 ug/l	2.29	200	93.6	90 - 110	B	
23 Na	45	1	1286.00 ug/l	1.75	1250	102.9	90 - 110	Na	
24 Mg	45	1	2526.00 ug/l	2.42	2500	101.0	90 - 110	Mg	
27 Al	45	1	1196.00 ug/l	0.17	1250	95.7	90 - 110	Al	
28 Si	45	2	1237.00 ug/l	1.21	1250	99.0	90 - 110	Si	
29 Si	45	2	1241.00 ug/l	0.70	1250	99.3	90 - 110	Si	
31 P	45	1	1188.00 ug/l	0.57	1250	95.0	90 - 110	P	
34 S	45	1	18750.00 ug/l	1.44	20000	93.8	90 - 110	S	
34 S	45	2	20180.00 ug/l	2.28	20000	100.9	90 - 110	S	
39 K	45	1	1273.00 ug/l	0.56	1250	101.8	90 - 110	K	
44 Ca	45	2	2487.00 ug/l	0.72	2500	99.5	90 - 110	Ca	
47 Ti	72	2	99.38 ug/l	1.18	100	99.4	90 - 110	Ti	
51 V	72	1	103.20 ug/l	0.61	100	103.2	90 - 110	V	
52 Cr	72	1	99.11 ug/l	0.84	100	99.1	90 - 110	Cr	
55 Mn	72	1	95.12 ug/l	0.85	100	95.1	90 - 110	Mn	
57 Fe	72	1	2396.00 ug/l	0.79	2500	95.8	90 - 110	Fe	
59 Co	72	1	100.30 ug/l	1.55	100	100.3	90 - 110	Co	
60 Ni	72	1	96.98 ug/l	1.37	100	97.0	90 - 110	Ni	
63 Cu	72	1	98.37 ug/l	0.87	100	98.4	90 - 110	Cu	
66 Zn	72	1	95.56 ug/l	1.37	100	95.6	90 - 110	Zn	
75 As	72	1	99.95 ug/l	0.73	100	100.0	90 - 110	As	
78 Se	72	1	93.87 ug/l	0.78	100	93.9	90 - 110	Se	
88 Sr	72	2	101.30 ug/l	1.00	100	101.3	90 - 110	Sr	
89 Y	72	1	100.30 ug/l	0.94	100	100.3	90 - 110	Y	
90 Zr	72	1	107.30 ug/l	1.21	100	107.3	90 - 110	Zr	
93 Nb	72	1	50.79 ug/l	1.24	50	101.6	90 - 110	Nb	
95 Mo	72	2	98.93 ug/l	1.56	100	98.9	90 - 110	Mo	
101 Ru	72	1	101.50 ug/l	1.81	100	101.5	90 - 110	Ru	
103 Rh	72	1	101.90 ug/l	1.21	100	101.9	90 - 110	Rh	
105 Pd	72	1	10.03 ug/l	1.35	10	100.3	90 - 110	Pd	
107 Ag	115	2	19.74 ug/l	2.35	20	98.7	90 - 110	Ag	
111 Cd	115	2	96.96 ug/l	0.52	100	97.0	90 - 110	Cd	
118 Sn	115	2	101.20 ug/l	1.32	100	101.2	90 - 110	Sn	
121 Sb	165	2	49.68 ug/l	2.12	50	99.4	90 - 110	Sb	
125 Te	165	1	93.68 ug/l	2.55	100	93.7	90 - 110	Te	
133 Cs	165	1	96.90 ug/l	2.95	100	96.9	90 - 110	Cs	
137 Ba	165	2	95.95 ug/l	1.17	100	96.0	90 - 110	Ba	
139 La	165	1	101.60 ug/l	2.75	100	101.6	90 - 110	La	
140 Ce	165	1	99.78 ug/l	2.54	100	99.8	90 - 110	Ce	
141 Pr	165	1	97.91 ug/l	2.10	100	97.9	90 - 110	Pr	
146 Nd	165	1	95.92 ug/l	2.23	100	95.9	90 - 110	Nd	
147 Sm	165	2	95.30 ug/l	1.88	100	95.3	90 - 110	Sm	
178 Hf	165	1	87.42 ug/l	1.96	100	87.4	90 - 110	Hf	Fail
181 Ta	165	1	99.52 ug/l	3.89	100	99.5	90 - 110	Ta	
182 W	197	1	96.35 ug/l	1.58	100	96.4	90 - 110	W	
195 Pt	197	1	9.74 ug/l	0.64	10	97.4	90 - 110	Pt	
205 Tl	197	2	100.80 ug/l	1.55	100	100.8	90 - 110	Tl	
206 (Pb)	197	2	102.00 ug/l	2.12	100	102.0	90 - 110	(Pb)	
207 (Pb)	197	2	99.78 ug/l	3.24	100	99.8	90 - 110	(Pb)	
208 Pb	197	2	100.90 ug/l	2.06	100	100.9	90 - 110	Pb	
209 Bi	197	1	101.80 ug/l	1.35	100	101.8	90 - 110	Bi	
232 Th	197	2	89.59 ug/l	2.55	100	89.6	90 - 110	Th	Fail
238 U	197	2	98.39 ug/l	0.85	100	98.4	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6724581	1.19	5986087	112.3	70 - 140	Li	
45 Sc	1	495314	1.08	509565	97.2	70 - 140	Sc	
45 Sc	2	7427383	0.72	6903232	107.6	70 - 140	Sc	
72 Ge	1	293736	0.51	275046	106.8	70 - 140	Ge	
72 Ge	2	1512830	0.87	1427904	105.9	70 - 140	Ge	
115 In	2	8971236	0.32	8556655	104.8	70 - 140	In	
165 Ho	1	6639737	2.34	6247878	106.3	70 - 140	Ho	
165 Ho	2	12071194	1.23	11326620	106.6	70 - 140	Ho	
197 Au	1	2262856	0.61	2097035	108.4	70 - 140	Au	
197 Au	2	2783559	0.98	2625939	106.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\069_CCB.D\069_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\069_CCB.D\069_CCB.D#
Date Acquired: Apr 13 2010 09:20 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element Flag
7 Li	6	2	-0.393	ug/l	33.70	1.35	Li
9 Be	6	2	-0.004	ug/l	47.66	0.23	Be
11 B	6	2	0.790	ug/l	10.64	14.94	B
23 Na	45	1	1.629	ug/l	9.35	10.60	Na
24 Mg	45	1	0.361	ug/l	19.23	3.46	Mg
27 Al	45	1	0.463	ug/l	34.64	8.94	Al
28 Si	45	2	0.082	ug/l	208.66	35.60	Si
29 Si	45	2	-5.348	ug/l	12.29	35.60	Si
31 P	45	1	-0.340	ug/l	185.69	16.46	P
34 S	45	1	-269.800	ug/l	27.83	666.00	S
34 S	45	2	-408.900	ug/l	2.00	666.00	S
39 K	45	1	-0.621	ug/l	80.10	16.66	K
44 Ca	45	2	-15.610	ug/l	0.81	97.40	Ca
47 Ti	72	2	0.375	ug/l	5.06	1.15	Ti
51 V	72	1	0.218	ug/l	7.84	4.74	V
52 Cr	72	1	-0.011	ug/l	48.46	6.52	Cr
55 Mn	72	1	0.027	ug/l	12.11	0.47	Mn
57 Fe	72	1	7.242	ug/l	19.07	40.70	Fe
59 Co	72	1	0.007	ug/l	40.50	0.43	Co
60 Ni	72	1	0.000	ug/l	1117.00	0.46	Ni
63 Cu	72	1	-0.006	ug/l	150.94	0.19	Cu
66 Zn	72	1	-0.004	ug/l	543.03	7.48	Zn
75 As	72	1	0.003	ug/l	672.26	1.89	As
78 Se	72	1	0.224	ug/l	9.69	0.62	Se
88 Sr	72	2	0.004	ug/l	58.43	0.23	Sr
89 Y	72	1	0.009	ug/l	22.46	0.42	Y
90 Zr	72	1	0.051	ug/l	14.13	0.50	Zr
93 Nb	72	1	0.393	ug/l	37.13	4.46	Nb
95 Mo	72	2	0.171	ug/l	11.03	0.43	Mo
101 Ru	72	1	0.006	ug/l	15.28	2.00	Ru
103 Rh	72	1	0.009	ug/l	23.32	1.63	Rh
105 Pd	72	1	-0.001	ug/l	68.95	0.08	Pd
107 Ag	115	2	0.002	ug/l	29.64	0.08	Ag
111 Cd	115	2	0.002	ug/l	183.75	0.11	Cd
118 Sn	115	2	0.100	ug/l	4.30	0.30	Sn
121 Sb	165	2	0.099	ug/l	5.41	2.24	Sb
125 Te	165	1	0.193	ug/l	24.33	1.07	Te
133 Cs	165	1	0.037	ug/l	22.71	0.11	Cs
137 Ba	165	2	0.005	ug/l	46.06	0.39	Ba
139 La	165	1	0.011	ug/l	8.39	0.10	La
140 Ce	165	1	0.011	ug/l	23.47	1.77	Ce
141 Pr	165	1	0.008	ug/l	42.91	0.08	Pr
146 Nd	165	1	0.008	ug/l	27.29	0.21	Nd
147 Sm	165	2	0.003	ug/l	72.30	0.65	Sm
178 Hf	165	1	0.054	ug/l	5.59	2.26	Hf
181 Ta	165	1	-0.303	ug/l	17.03	1.46	Ta
182 W	197	1	1.146	ug/l	15.94	1.68	W
195 Pt	197	1	-0.001	ug/l	91.27	0.12	Pt
205 Tl	197	2	0.180	ug/l	7.05	1.10	Tl
206 (Pb)	197	2	0.017	ug/l	26.83	2.00	(Pb)
207 (Pb)	197	2	0.018	ug/l	60.26	2.00	(Pb)
208 Pb	197	2	0.020	ug/l	14.34	0.35	Pb
209 Bi	197	1	0.009	ug/l	50.97	1.46	Bi
232 Th	197	2	-0.671	ug/l	6.14	1.10	Th
238 U	197	2	0.020	ug/l	21.20	0.16	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6 Li	2	7072682	0.82	5986087	118.2	70 - 140	Li
45 Sc	1	502210	1.43	509565	98.6	70 - 140	Sc
45 Sc	2	7366068	0.84	6903232	106.7	70 - 140	Sc
72 Ge	1	290175	0.87	275046	105.5	70 - 140	Ge
72 Ge	2	1486754	0.50	1427904	104.1	70 - 140	Ge
115 In	2	8945135	0.37	8556655	104.5	70 - 140	In
165 Ho	1	6650052	0.57	6247878	106.4	70 - 140	Ho
165 Ho	2	11932256	1.52	11326620	105.3	70 - 140	Ho
197 Au	1	2225974	1.98	2087035	106.7	70 - 140	Au
197 Au	2	2768371	0.73	2625939	105.4	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\070SMPL.D\070SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\070SMPL.D\070SMPL.D#
Date Acquired: Apr 13 2010 09:27 pm
Operator:
Sample Name: LXNK6
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	51.44 ug/l	0.00	1.58	1000	Li	
9	Be	6		2	4.92 ug/l	0.00	0.47	1000	Be	
11	B	6		2	9.73 ug/l	0.00	1.44	2000	B	
23	Na	45		1	1544.00 ug/l	0.00	1.55	200000	Na	
24	Mg	45		1	9329.00 ug/l	0.00	0.92	200000	Mg	
27	Al	45		1	64390.00 ug/l	0.00	0.75	200000	Al	
28	Si	45		2	7057.00 ug/l	0.00	1.01	200000	Si	
29	Si	45		2	6818.00 ug/l	0.00	0.26	200000	Si	
31	P	45		1	303.90 ug/l	0.00	0.69	200000	P	
34	S	45		1	73.00 ug/l	0.00	22.19	200000	S	
34	S	45		2	-183.60 ug/l	0.00	3.90	200000	S	
39	K	45		1	8385.00 ug/l	0.00	0.82	200000	K	
44	Ca	45		2	9736.00 ug/l	0.00	0.79	200000	Ca	
47	Ti	72		2	1483.00 ug/l	0.00	1.21	5000	Ti	
51	V	72		1	97.68 ug/l	0.00	1.24	2000	V	
52	Cr	72		1	42.13 ug/l	0.00	0.64	2000	Cr	
55	Mn	72		1	1174.00 ug/l	0.00	1.78	5000	Mn	
57	Fe	72		1	53070.00 ug/l	0.00	0.56	200000	Fe	
59	Co	72		1	24.14 ug/l	0.00	0.71	2000	Co	
60	Ni	72		1	34.96 ug/l	0.00	0.31	2000	Ni	
63	Cu	72		1	30.63 ug/l	0.00	1.32	5000	Cu	
66	Zn	72		1	97.31 ug/l	0.00	0.46	5000	Zn	
75	As	72		1	14.79 ug/l	0.00	0.86	2000	As	
78	Se	72		1	4.50 ug/l	0.00	1.74	2000	Se	
88	Sr	72		2	131.50 ug/l	0.00	1.53	5000	Sr	
89	Y	72		1	47.06 ug/l	0.00	1.09	2000	Y	
90	Zr	72		1	94.09 ug/l	0.00	2.22	2000	Zr	
93	Nb	72		1	8.70 ug/l	0.00	1.04	2000	Nb	
95	Mo	72		2	1.57 ug/l	0.00	1.57	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	51.68	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	28.85	2000	Rh	
105	Pd	72		1	0.09 ug/l	0.00	2.31	2000	Pd	
107	Ag	115		2	0.29 ug/l	0.00	1.36	400	Ag	
111	Cd	115		2	0.19 ug/l	0.00	5.74	2000	Cd	
118	Sn	115		2	3.99 ug/l	0.00	0.54	2000	Sn	
121	Sb	165		2	0.47 ug/l	0.00	2.66	1000	Sb	
125	Te	165		1	0.06 ug/l	0.00	31.08	2000	Te	
133	Cs	165		1	7.37 ug/l	0.00	1.31	2000	Cs	
137	Ba	165		2	800.40 ug/l	0.00	0.48	5000	Ba	
139	La	165		1	93.72 ug/l	0.00	0.95	2000	La	
140	Ce	165		1	211.70 ug/l	0.00	1.21	2000	Ce	
141	Pr	165		1	20.89 ug/l	0.00	1.43	2000	Pr	
146	Nd	165		1	74.86 ug/l	0.00	0.49	2000	Nd	
147	Sm	165		2	13.40 ug/l	0.00	0.41	2000	Sm	
178	Hf	165		1	5.42 ug/l	0.00	3.88	2000	Hf	
181	Ta	165		1	-0.37 ug/l	0.00	17.36	2000	Ta	
182	W	197		1	1.18 ug/l	0.00	5.13	2000	W	
195	Pt	197		1	0.02 ug/l	0.00	10.39	2000	Pt	
205	Tl	197		2	1.03 ug/l	0.00	2.78	2000	Tl	
206	(Pb)	197		2	69.97 ug/l	0.00	0.95	2000	(Pb)	
207	(Pb)	197		2	66.77 ug/l	0.00	1.27	2000	(Pb)	
208	Pb	197		2	68.42 ug/l	0.00	0.63	5000	Pb	
209	Bi	197		1	1.28 ug/l	0.00	1.62	2000	Bi	
232	Th	197		2	44.66 ug/l	0.00	0.85	2000	Th	
238	U	197		2	2.84 ug/l	0.00	0.48	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6695032	0.24	5986087	111.8	70 - 140	Li	
45	Sc	1	534098	0.26	509565	104.8	70 - 140	Sc	
45	Sc	2	7950610	0.64	6903232	115.2	70 - 140	Sc	
72	Ge	1	293474	1.28	275046	106.7	70 - 140	Ge	
72	Ge	2	1519040	0.14	1427904	106.4	70 - 140	Ge	
115	In	2	8773178	1.86	8556655	102.5	70 - 140	In	
165	Ho	1	6539117	1.23	6247878	105.6	70 - 140	Ho	
165	Ho	2	12095126	0.83	11326620	106.8	70 - 140	Ho	
197	Au	1	2092892	0.61	2087035	100.3	70 - 140	Au	
197	Au	2	2577360	1.22	2625939	98.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\750D\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\071SMPL.D\071SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\071SMPL.D\071SMPL.D#
Date Acquired: Apr 13 2010 09:35 pm
Operator:
Sample Name: LXNK69
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	69.20 ug/l	0.00	0.91	1000	Li	
9	Be	6		2	4.78 ug/l	0.00	3.72	1000	Be	
11	B	6		2	12.98 ug/l	0.00	2.64	2000	B	
23	Na	45		1	1516.00 ug/l	0.00	1.79	200000	Na	
24	Mg	45		1	10160.00 ug/l	0.00	0.84	200000	Mg	
27	Al	45		1	79700.00 ug/l	0.00	0.98	200000	Al	
28	Si	45		2	2188.00 ug/l	0.00	2.23	200000	Si	
29	Si	45		2	2165.00 ug/l	0.00	1.02	200000	Si	
31	P	45		1	316.30 ug/l	0.00	1.11	200000	P	
34	S	45		1	280.10 ug/l	0.00	6.95	200000	S	
34	S	45		2	64.32 ug/l	0.00	29.57	200000	S	
39	K	45		1	9157.00 ug/l	0.00	0.81	200000	K	
44	Ca	45		2	9301.00 ug/l	0.00	1.02	200000	Ca	
47	Ti	72		2	1561.00 ug/l	0.00	1.13	5000	Ti	
51	V	72		1	101.80 ug/l	0.00	0.59	2000	V	
52	Cr	72		1	52.27 ug/l	0.00	0.57	2000	Cr	
55	Mn	72		1	1205.00 ug/l	0.00	0.85	5000	Mn	
57	Fe	72		1	55630.00 ug/l	0.00	1.07	200000	Fe	
59	Co	72		1	24.12 ug/l	0.00	0.82	2000	Co	
60	Ni	72		1	41.14 ug/l	0.00	0.25	2000	Ni	
63	Cu	72		1	30.66 ug/l	0.00	0.81	5000	Cu	
66	Zn	72		1	109.20 ug/l	0.00	0.82	5000	Zn	
75	As	72		1	31.68 ug/l	0.00	0.73	2000	As	
78	Se	72		1	7.97 ug/l	0.00	0.99	2000	Se	
88	Sr	72		2	128.30 ug/l	0.00	0.86	5000	Sr	
89	Y	72		1	45.13 ug/l	0.00	1.22	2000	Y	
90	Zr	72		1	113.90 ug/l	0.00	0.84	2000	Zr	
93	Nb	72		1	10.68 ug/l	0.00	0.41	2000	Nb	
95	Mo	72		2	1.70 ug/l	0.00	0.92	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	93.99	2000	Ru	
103	Rh	72		1	0.01 ug/l	0.00	21.77	2000	Rh	
105	Pd	72		1	0.09 ug/l	0.00	6.29	2000	Pd	
107	Ag	115		2	0.31 ug/l	0.00	1.18	400	Ag	
111	Cd	115		2	2.59 ug/l	0.00	2.46	2000	Cd	
118	Sn	115		2	3.94 ug/l	0.00	1.11	2000	Sn	
121	Sb	165		2	16.26 ug/l	0.00	1.25	1000	Sb	
125	Te	165		1	0.03 ug/l	0.00	168.90	2000	Te	
133	Cs	165		1	9.68 ug/l	0.00	1.64	2000	Cs	
137	Ba	165		2	760.50 ug/l	0.00	1.07	5000	Ba	
139	La	165		1	93.89 ug/l	0.00	0.62	2000	La	
140	Ce	165		1	201.80 ug/l	0.00	0.44	2000	Ce	
141	Pr	165		1	20.29 ug/l	0.00	0.48	2000	Pr	
146	Nd	165		1	72.49 ug/l	0.00	1.29	2000	Nd	
147	Sm	165		2	12.97 ug/l	0.00	0.19	2000	Sm	
178	Hf	165		1	5.09 ug/l	0.00	3.75	2000	Hf	
181	Ta	165		1	-0.38 ug/l	0.00	17.83	2000	Ta	
182	W	197		1	1.38 ug/l	0.00	3.17	2000	W	
195	Pt	197		1	0.02 ug/l	0.00	36.10	2000	Pt	
205	Tl	197		2	29.04 ug/l	0.00	1.10	2000	Tl	
206	(Pb)	197		2	110.00 ug/l	0.00	1.39	2000	(Pb)	
207	(Pb)	197		2	104.40 ug/l	0.00	0.57	2000	(Pb)	
208	Pb	197		2	107.80 ug/l	0.00	1.39	5000	Pb	
209	Bi	197		1	1.22 ug/l	0.00	2.64	2000	Bi	
232	Th	197		2	40.48 ug/l	0.00	1.06	2000	Th	
238	U	197		2	2.89 ug/l	0.00	1.93	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6595118	2.22	5986087	110.2	70 - 140	Li	
45	Sc	1	532799	0.53	509565	104.6	70 - 140	Sc	
45	Sc	2	7850796	1.25	6903232	113.7	70 - 140	Sc	
72	Ge	1	290947	0.57	275046	105.8	70 - 140	Ge	
72	Ge	2	1510154	0.24	1427904	105.8	70 - 140	Ge	
115	In	2	8752722	0.66	8556655	102.3	70 - 140	In	
165	Ho	1	6438705	0.43	6247878	103.1	70 - 140	Ho	
165	Ho	2	11810830	0.55	11326620	104.3	70 - 140	Ho	
197	Au	1	1997907	0.67	2087035	95.7	70 - 140	Au	
197	Au	2	2527969	0.85	2625939	96.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\072SMPL.D\072SMPL.D$

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\072SMPL.D\072SMPL.D$
Date Acquired: Apr 13 2010 09:42 pm
Operator:
Sample Name: LXNKS
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li		6	2	34.80 ug/l	0.00	2.80	1000	Li	
9	Be		6	2	3.05 ug/l	0.00	0.95	1000	Be	
11	B		6	2	8.18 ug/l	0.00	0.66	2000	B	
23	Na		45	1	251.90 ug/l	0.00	0.59	200000	Na	
24	Mg		45	1	7274.00 ug/l	0.00	0.77	200000	Mg	
27	Al		45	1	36170.00 ug/l	0.00	0.47	200000	Al	
28	Si		45	2	1850.00 ug/l	0.00	1.83	200000	Si	
29	Si		45	2	1835.00 ug/l	0.00	1.23	200000	Si	
31	P		45	1	405.30 ug/l	0.00	1.86	200000	P	
34	S		45	1	247.30 ug/l	0.00	30.13	200000	S	
34	S		45	2	114.50 ug/l	0.00	3.48	200000	S	
39	K		45	1	7946.00 ug/l	0.00	1.53	200000	K	
44	Ca		45	2	8020.00 ug/l	0.00	0.43	200000	Ca	
47	Ti		72	2	1394.00 ug/l	0.00	0.57	5000	Ti	
51	V		72	1	87.02 ug/l	0.00	0.75	2000	V	
52	Cr		72	1	34.32 ug/l	0.00	1.00	2000	Cr	
55	Mn		72	1	1223.00 ug/l	0.00	0.36	5000	Mn	
57	Fe		72	1	42310.00 ug/l	0.00	1.24	200000	Fe	
59	Co		72	1	22.91 ug/l	0.00	0.66	2000	Co	
60	Ni		72	1	27.99 ug/l	0.00	0.87	2000	Ni	
63	Cu		72	1	28.35 ug/l	0.00	0.61	5000	Cu	
66	Zn		72	1	90.74 ug/l	0.00	0.63	5000	Zn	
75	As		72	1	12.34 ug/l	0.00	0.40	2000	As	
78	Se		72	1	3.66 ug/l	0.00	4.29	2000	Se	
88	Sr		72	2	97.20 ug/l	0.00	0.68	5000	Sr	
89	Y		72	1	35.49 ug/l	0.00	0.75	2000	Y	
90	Zr		72	1	81.45 ug/l	0.00	0.83	2000	Zr	
93	Nb		72	1	14.96 ug/l	0.00	2.46	2000	Nb	
95	Mo		72	2	1.66 ug/l	0.00	2.33	2000	Mo	
101	Ru		72	1	0.00 ug/l	0.00	363.05	2000	Ru	
103	Rh		72	1	0.00 ug/l	0.00	50.46	2000	Rh	
105	Pd		72	1	0.08 ug/l	0.00	10.70	2000	Pd	
107	Ag		115	2	0.21 ug/l	0.00	0.35	400	Ag	
111	Cd		115	2	0.40 ug/l	0.00	2.70	2000	Cd	
118	Sn		115	2	16.27 ug/l	0.00	0.64	2000	Sn	
121	Sb		165	2	0.64 ug/l	0.00	1.21	1000	Sb	
125	Te		165	1	0.04 ug/l	0.00	95.88	2000	Te	
133	Cs		165	1	6.74 ug/l	0.00	0.76	2000	Cs	
137	Ba		165	2	536.60 ug/l	0.00	0.13	5000	Ba	
139	La		165	1	79.24 ug/l	0.00	2.04	2000	La	
140	Ce		165	1	167.20 ug/l	0.00	2.31	2000	Ce	
141	Pr		165	1	17.20 ug/l	0.00	2.21	2000	Pr	
146	Nd		165	1	61.38 ug/l	0.00	1.01	2000	Nd	
147	Sm		165	2	11.01 ug/l	0.00	0.82	2000	Sm	
178	Hf		165	1	3.05 ug/l	0.00	3.26	2000	Hf	
181	Ta		165	1	-0.26 ug/l	0.00	35.54	2000	Ta	
182	W		197	1	0.79 ug/l	0.00	2.77	2000	W	
195	Pt		197	1	0.01 ug/l	0.00	62.77	2000	Pt	
205	Tl		197	2	1.03 ug/l	0.00	0.12	2000	Tl	
206	(Pb)		197	2	101.50 ug/l	0.00	1.78	2000	(Pb)	
207	(Pb)		197	2	95.90 ug/l	0.00	1.17	2000	(Pb)	
208	Pb		197	2	98.69 ug/l	0.00	0.79	5000	Pb	
209	Bi		197	1	1.07 ug/l	0.00	2.05	2000	Bi	
232	Th		197	2	30.68 ug/l	0.00	2.01	2000	Th	
238	U		197	2	24.92 ug/l	0.00	0.18	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6709689	0.92	5986087	112.1	70 - 140	Li	
45	Sc	1	518192	0.11	509565	101.7	70 - 140	Sc	
45	Sc	2	7759923	0.54	6903232	112.4	70 - 140	Sc	
72	Ge	1	285911	0.58	275046	105.4	70 - 140	Ge	
72	Ge	2	1517937	0.83	1427904	106.3	70 - 140	Ge	
115	In	2	8801724	0.62	8556655	102.9	70 - 140	In	
165	Ho	1	6577916	1.36	6247878	105.3	70 - 140	Ho	
165	Ho	2	12088056	0.91	11326620	106.7	70 - 140	Ho	
197	Au	1	2040510	0.74	2087035	97.8	70 - 140	Au	
197	Au	2	2595948	0.80	2625939	98.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

c:\ICPCHEM\1\DATA\041310A2.B\073SMPL.D\073SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\073SMPL.D\073SMPL.D#
Date Acquired: Apr 13 2010 09:49 pm
Operator:
Sample Name: LXNLC
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	27.93 ug/l	0.00	2.00	1000	Li	
9	Be	6		2	2.53 ug/l	0.00	1.42	1000	Be	
11	B	6		2	4.95 ug/l	0.00	3.13	2000	B	
23	Na	45		1	223.70 ug/l	0.00	0.94	200000	Na	
24	Mg	45		1	5694.00 ug/l	0.00	0.57	200000	Mg	
27	Al	45		1	30120.00 ug/l	0.00	0.55	200000	Al	
28	Si	45		2	1495.00 ug/l	0.00	3.02	200000	Si	
29	Si	45		2	1303.00 ug/l	0.00	2.70	200000	Si	
31	P	45		1	371.30 ug/l	0.00	1.38	200000	P	
34	S	45		1	170.80 ug/l	0.00	25.43	200000	S	
34	S	45		2	22.80 ug/l	0.00	92.50	200000	S	
39	K	45		1	6708.00 ug/l	0.00	0.69	200000	K	
44	Ca	45		2	6016.00 ug/l	0.00	0.57	200000	Ca	
47	Ti	72		2	1129.00 ug/l	0.00	2.23	5000	Ti	
51	V	72		1	78.71 ug/l	0.00	0.48	2000	V	
52	Cr	72		1	30.61 ug/l	0.00	0.53	2000	Cr	
55	Mn	72		1	1520.00 ug/l	0.00	0.10	5000	Mn	
57	Fe	72		1	37410.00 ug/l	0.00	0.15	200000	Fe	
59	Co	72		1	24.62 ug/l	0.00	0.51	2000	Co	
60	Ni	72		1	25.85 ug/l	0.00	0.55	2000	Ni	
63	Cu	72		1	21.07 ug/l	0.00	0.61	5000	Cu	
66	Zn	72		1	74.50 ug/l	0.00	0.94	5000	Zn	
75	As	72		1	10.29 ug/l	0.00	0.29	2000	As	
78	Se	72		1	3.23 ug/l	0.00	1.69	2000	Se	
88	Sr	72		2	87.44 ug/l	0.00	1.35	5000	Sr	
89	Y	72		1	29.44 ug/l	0.00	0.68	2000	Y	
90	Zr	72		1	65.60 ug/l	0.00	1.45	2000	Zr	
93	Nb	72		1	10.56 ug/l	0.00	0.71	2000	Nb	
95	Mo	72		2	1.41 ug/l	0.00	1.93	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	131.90	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	82.19	2000	Rh	
105	Pd	72		1	0.05 ug/l	0.00	4.22	2000	Pd	
107	Ag	115		2	0.15 ug/l	0.00	0.80	400	Ag	
111	Cd	115		2	0.31 ug/l	0.00	3.28	2000	Cd	
118	Sn	115		2	2.37 ug/l	0.00	1.33	2000	Sn	
121	Sb	165		2	0.46 ug/l	0.00	2.15	1000	Sb	
125	Te	165		1	0.12 ug/l	0.00	31.53	2000	Te	
133	Cs	165		1	5.53 ug/l	0.00	1.76	2000	Cs	
137	Ba	165		2	674.70 ug/l	0.00	0.63	5000	Ba	
139	La	165		1	70.47 ug/l	0.00	0.72	2000	La	
140	Ce	165		1	164.90 ug/l	0.00	0.73	2000	Ce	
141	Pr	165		1	15.53 ug/l	0.00	0.57	2000	Pr	
146	Nd	165		1	55.79 ug/l	0.00	1.10	2000	Nd	
147	Sm	165		2	10.03 ug/l	0.00	0.67	2000	Sm	
178	Hf	165		1	2.05 ug/l	0.00	1.99	2000	Hf	
181	Ta	165		1	-0.44 ug/l	0.00	13.56	2000	Ta	
182	W	197		1	0.57 ug/l	0.00	5.05	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	20.25	2000	Pt	
205	Tl	197		2	0.67 ug/l	0.00	0.97	2000	Tl	
206	(Pb)	197		2	55.48 ug/l	0.00	0.18	2000	(Pb)	
207	(Pb)	197		2	52.62 ug/l	0.00	1.47	2000	(Pb)	
208	Pb	197		2	54.28 ug/l	0.00	1.26	5000	Pb	
209	Bi	197		1	0.75 ug/l	0.00	1.66	2000	Bi	
232	Th	197		2	28.43 ug/l	0.00	2.61	2000	Th	
238	U	197		2	30.29 ug/l	0.00	1.75	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6805089	0.72	5986087	113.7	70 - 140	Li	
45	Sc	1	517361	0.22	509565	101.5	70 - 140	Sc	
45	Sc	2	7744173	1.52	6903232	112.2	70 - 140	Sc	
72	Ge	1	292388	0.45	275046	106.3	70 - 140	Ge	
72	Ge	2	1525577	1.26	1427904	106.8	70 - 140	Ge	
115	In	2	8958076	0.37	8556655	104.7	70 - 140	In	
165	Ho	1	6713770	0.85	6247878	107.5	70 - 140	Ho	
165	Ho	2	12103331	0.53	11326620	106.9	70 - 140	Ho	
197	Au	1	2099802	0.45	2087035	100.6	70 - 140	Au	
197	Au	2	2625278	1.02	2625939	100.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\074SMPL.D\074SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\074SMPL.D\074SMPL.D#
Date Acquired: Apr 13 2010 09:56 pm
Operator:
Sample Name: LXNLE
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	25.01 ug/l	0.00	1.62	1000	Li	
9 Be	6		2	2.82 ug/l	0.00	1.63	1000	Be	
11 B	6		2	6.80 ug/l	0.00	0.52	2000	B	
23 Na	45		1	1578.00 ug/l	0.00	1.90	200000	Na	
24 Mg	45		1	7341.00 ug/l	0.00	1.40	200000	Mg	
27 Al	45		1	29200.00 ug/l	0.00	0.73	200000	Al	
28 Si	45		2	1436.00 ug/l	0.00	0.99	200000	Si	
29 Si	45		2	1436.00 ug/l	0.00	0.98	200000	Si	
31 P	45		1	202.60 ug/l	0.00	0.85	200000	P	
34 S	45		1	271.00 ug/l	0.00	8.94	200000	S	
34 S	45		2	144.70 ug/l	0.00	15.78	200000	S	
39 K	45		1	5231.00 ug/l	0.00	0.90	200000	K	
44 Ca	45		2	10850.00 ug/l	0.00	1.54	200000	Ca	
47 Ti	72		2	631.50 ug/l	0.00	0.53	5000	Ti	
51 V	72		1	83.59 ug/l	0.00	0.91	2000	V	
52 Cr	72		1	38.41 ug/l	0.00	0.28	2000	Cr	
55 Mn	72		1	1411.00 ug/l	0.00	0.91	5000	Mn	
57 Fe	72		1	40690.00 ug/l	0.00	0.35	200000	Fe	
59 Co	72		1	30.06 ug/l	0.00	1.09	2000	Co	
60 Ni	72		1	40.12 ug/l	0.00	0.60	2000	Ni	
63 Cu	72		1	55.15 ug/l	0.00	0.62	5000	Cu	
66 Zn	72		1	114.40 ug/l	0.00	0.20	5000	Zn	
75 As	72		1	14.02 ug/l	0.00	0.76	2000	As	
78 Se	72		1	3.22 ug/l	0.00	4.37	2000	Se	
88 Sr	72		2	119.20 ug/l	0.00	1.48	5000	Sr	
89 Y	72		1	29.04 ug/l	0.00	0.53	2000	Y	
90 Zr	72		1	53.33 ug/l	0.00	0.36	2000	Zr	
93 Nb	72		1	4.49 ug/l	0.00	2.06	2000	Nb	
95 Mo	72		2	1.97 ug/l	0.00	2.10	2000	Mo	
101 Ru	72		1	0.00 ug/l	0.00	137.94	2000	Ru	
103 Rh	72		1	0.00 ug/l	0.00	211.50	2000	Rh	
105 Pd	72		1	0.06 ug/l	0.00	8.98	2000	Pd	
107 Ag	115		2	0.17 ug/l	0.00	1.28	400	Ag	
111 Cd	115		2	0.14 ug/l	0.00	12.18	2000	Cd	
118 Sn	115		2	2.13 ug/l	0.00	4.02	2000	Sn	
121 Sb	165		2	0.47 ug/l	0.00	2.98	1000	Sb	
125 Te	165		1	0.06 ug/l	0.00	25.86	2000	Te	
133 Cs	165		1	6.14 ug/l	0.00	2.51	2000	Cs	
137 Ba	165		2	655.10 ug/l	0.00	1.83	5000	Ba	
139 La	165		1	80.95 ug/l	0.00	1.30	2000	La	
140 Ce	165		1	186.40 ug/l	0.00	2.06	2000	Ce	
141 Pr	165		1	17.36 ug/l	0.00	1.82	2000	Pr	
146 Nd	165		1	60.78 ug/l	0.00	1.84	2000	Nd	
147 Sm	165		2	10.44 ug/l	0.00	1.53	2000	Sm	
178 Hf	165		1	1.47 ug/l	0.00	0.85	2000	Hf	
181 Ta	165		1	-0.55 ug/l	0.00	5.27	2000	Ta	
182 W	197		1	1.46 ug/l	0.00	2.85	2000	W	
195 Pt	197		1	0.01 ug/l	0.00	30.35	2000	Pt	
205 Tl	197		2	0.38 ug/l	0.00	0.97	2000	Tl	
206 (Pb)	197		2	50.56 ug/l	0.00	1.44	2000	(Pb)	
207 (Pb)	197		2	47.39 ug/l	0.00	1.54	2000	(Pb)	
208 Pb	197		2	48.67 ug/l	0.00	0.85	5000	Pb	
209 Bi	197		1	1.95 ug/l	0.00	1.05	2000	Bi	
232 Th	197		2	27.37 ug/l	0.00	0.96	2000	Th	
238 U	197		2	1.97 ug/l	0.00	0.90	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6825815	1.00	5986087	114.0	70 - 140	Li	
45 Sc	1	513286	1.01	509565	100.7	70 - 140	Sc	
45 Sc	2	7713583	1.39	6903232	111.7	70 - 140	Sc	
72 Ge	1	288159	0.61	275046	104.8	70 - 140	Ge	
72 Ge	2	1507585	0.83	1427904	105.6	70 - 140	Ge	
115 In	2	8830714	1.41	8556655	103.2	70 - 140	In	
165 Ho	1	6584404	1.44	6247878	105.4	70 - 140	Ho	
165 Ho	2	11954225	0.49	11326620	105.5	70 - 140	Ho	
197 Au	1	2064450	1.66	2087035	98.9	70 - 140	Au	
197 Au	2	2573572	0.93	2625939	98.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\0755MPL.D\0755MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\0755MPL.D\0755MPL.D#
Date Acquired: Apr 13 2010 10:03 pm
Operator:
Sample Name: LXNLK
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	28.65 ug/l	0.00	0.94	1000	Li	
9	Be	6		2	2.71 ug/l	0.00	1.35	1000	Be	
11	B	6		2	4.48 ug/l	0.00	3.54	2000	B	
23	Na	45		1	257.60 ug/l	0.00	0.67	200000	Na	
24	Mg	45		1	5881.00 ug/l	0.00	1.37	200000	Mg	
27	Al	45		1	31100.00 ug/l	0.00	0.86	200000	Al	
28	Si	45		2	2724.00 ug/l	0.00	0.95	200000	Si	
29	Si	45		2	2709.00 ug/l	0.00	1.73	200000	Si	
31	P	45		1	388.10 ug/l	0.00	1.73	200000	P	
34	S	45		1	155.10 ug/l	0.00	17.54	200000	S	
34	S	45		2	-84.35 ug/l	0.00	14.29	200000	S	
39	K	45		1	6220.00 ug/l	0.00	1.32	200000	K	
44	Ca	45		2	5935.00 ug/l	0.00	0.49	200000	Ca	
47	Ti	72		2	1212.00 ug/l	0.00	0.10	5000	Ti	
51	V	72		1	86.20 ug/l	0.00	0.17	2000	V	
52	Cr	72		1	32.91 ug/l	0.00	1.18	2000	Cr	
55	Mn	72		1	1465.00 ug/l	0.00	0.34	5000	Mn	
57	Fe	72		1	39630.00 ug/l	0.00	0.35	200000	Fe	
59	Co	72		1	25.60 ug/l	0.00	1.90	2000	Co	
60	Ni	72		1	26.71 ug/l	0.00	0.83	2000	Ni	
63	Cu	72		1	21.62 ug/l	0.00	0.68	5000	Cu	
66	Zn	72		1	79.46 ug/l	0.00	0.83	5000	Zn	
75	As	72		1	11.62 ug/l	0.00	0.31	2000	As	
78	Se	72		1	3.76 ug/l	0.00	1.50	2000	Se	
88	Sr	72		2	85.04 ug/l	0.00	1.35	5000	Sr	
89	Y	72		1	33.42 ug/l	0.00	0.77	2000	Y	
90	Zr	72		1	73.80 ug/l	0.00	1.24	2000	Zr	
93	Nb	72		1	11.99 ug/l	0.00	1.33	2000	Nb	
95	Mo	72		2	1.52 ug/l	0.00	4.55	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	54.15	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	106.52	2000	Rh	
105	Pd	72		1	0.06 ug/l	0.00	1.94	2000	Pd	
107	Ag	115		2	0.16 ug/l	0.00	2.19	400	Ag	
111	Cd	115		2	0.27 ug/l	0.00	2.36	2000	Cd	
118	Sn	115		2	2.52 ug/l	0.00	1.73	2000	Sn	
121	Sb	165		2	0.42 ug/l	0.00	6.21	1000	Sb	
125	Te	165		1	0.03 ug/l	0.00	72.90	2000	Te	
133	Cs	165		1	5.75 ug/l	0.00	0.59	2000	Cs	
137	Ba	165		2	484.90 ug/l	0.00	2.09	5000	Ba	
139	La	165		1	77.81 ug/l	0.00	0.77	2000	La	
140	Ce	165		1	172.00 ug/l	0.00	0.40	2000	Ce	
141	Pr	165		1	17.53 ug/l	0.00	1.30	2000	Pr	
146	Nd	165		1	63.31 ug/l	0.00	1.29	2000	Nd	
147	Sm	165		2	11.25 ug/l	0.00	1.76	2000	Sm	
178	Hf	165		1	2.18 ug/l	0.00	1.06	2000	Hf	
181	Ta	165		1	-0.52 ug/l	0.00	7.88	2000	Ta	
182	W	197		1	0.56 ug/l	0.00	2.93	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	55.35	2000	Pt	
205	Tl	197		2	0.65 ug/l	0.00	1.86	2000	Tl	
206	(Pb)	197		2	58.25 ug/l	0.00	0.59	2000	(Pb)	
207	(Pb)	197		2	54.46 ug/l	0.00	0.41	2000	(Pb)	
208	Pb	197		2	56.35 ug/l	0.00	0.77	5000	Pb	
209	Bi	197		1	0.33 ug/l	0.00	0.26	2000	Bi	
232	Th	197		2	30.02 ug/l	0.00	1.65	2000	Th	
238	U	197		2	6.47 ug/l	0.00	1.30	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6589518	0.65	5986087	110.1	70 - 140	Li	
45	Sc	1	511710	0.32	509565	100.4	70 - 140	Sc	
45	Sc	2	7610332	0.38	6903232	110.2	70 - 140	Sc	
72	Ge	1	288683	0.79	275046	105.0	70 - 140	Ge	
72	Ge	2	1483320	1.36	1427904	104.3	70 - 140	Ge	
115	In	2	8690732	0.38	8556655	101.6	70 - 140	In	
165	Ho	1	6639610	0.69	6247878	106.3	70 - 140	Ho	
165	Ho	2	11889379	2.04	11326620	105.0	70 - 140	Ho	
197	Au	1	2063427	1.10	2087035	98.9	70 - 140	Au	
197	Au	2	2593812	0.63	2625939	98.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\076SMPL.D\076SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\076SMPL.D\076SMPL.D#
Date Acquired: Apr 13 2010 10:10 pm
Operator:
Sample Name: LXNLK
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	22.05 ug/l	0.00	1.08	1000	Li	
9	Be	6	2	1.89 ug/l	0.00	1.96	1000	Be	
11	B	6	2	3.69 ug/l	0.00	2.36	2000	B	
23	Na	45	1	1564.00 ug/l	0.00	0.60	200000	Na	
24	Mg	45	1	2889.00 ug/l	0.00	0.40	200000	Mg	
27	Al	45	1	15500.00 ug/l	0.00	0.76	200000	Al	
28	Si	45	2	5048.00 ug/l	0.00	1.34	200000	Si	
29	Si	45	2	4881.00 ug/l	0.00	2.09	200000	Si	
31	P	45	1	297.80 ug/l	0.00	1.10	200000	P	
34	S	45	1	-270.00 ug/l	0.00	5.43	200000	S	
34	S	45	2	-596.50 ug/l	0.00	3.72	200000	S	
39	K	45	1	2429.00 ug/l	0.00	0.21	200000	K	
44	Ca	45	2	3367.00 ug/l	0.00	0.14	200000	Ca	
47	Ti	72	2	457.50 ug/l	0.00	1.64	5000	Ti	
51	V	72	1	20.48 ug/l	0.00	0.23	2000	V	
52	Cr	72	1	41.88 ug/l	0.00	0.73	2000	Cr	
55	Mn	72	1	823.50 ug/l	0.00	1.21	5000	Mn	
57	Fe	72	1	22980.00 ug/l	0.00	0.40	200000	Fe	
59	Co	72	1	5.33 ug/l	0.00	0.34	2000	Co	
60	Ni	72	1	36.41 ug/l	0.00	0.35	2000	Ni	
63	Cu	72	1	61.69 ug/l	0.00	0.65	5000	Cu	
66	Zn	72	1	116.00 ug/l	0.00	0.43	5000	Zn	
75	As	72	1	5.76 ug/l	0.00	1.67	2000	As	
78	Se	72	1	5.92 ug/l	0.00	1.45	2000	Se	
88	Sr	72	2	43.18 ug/l	0.00	0.39	5000	Sr	
89	Y	72	1	70.73 ug/l	0.00	0.26	2000	Y	
90	Zr	72	1	43.92 ug/l	0.00	1.85	2000	Zr	
93	Nb	72	1	12.40 ug/l	0.00	4.41	2000	Nb	
95	Mo	72	2	3.04 ug/l	0.00	1.29	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	214.62	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	21.12	2000	Rh	
105	Pd	72	1	0.12 ug/l	0.00	10.78	2000	Pd	
107	Ag	115	2	0.18 ug/l	0.00	4.46	400	Ag	
111	Cd	115	2	0.06 ug/l	0.00	10.24	2000	Cd	
118	Sn	115	2	2.34 ug/l	0.00	2.23	2000	Sn	
121	Sb	165	2	0.12 ug/l	0.00	7.43	1000	Sb	
125	Te	165	1	-0.03 ug/l	0.00	107.42	2000	Te	
133	Cs	165	1	1.99 ug/l	0.00	1.41	2000	Cs	
137	Ba	165	2	113.10 ug/l	0.00	1.20	5000	Ba	
139	La	165	1	113.70 ug/l	0.00	1.43	2000	La	
140	Ce	165	1	235.40 ug/l	0.00	0.91	2000	Ce	
141	Pr	165	1	27.14 ug/l	0.00	0.63	2000	Pr	
146	Nd	165	1	96.01 ug/l	0.00	0.95	2000	Nd	
147	Sm	165	2	18.85 ug/l	0.00	0.80	2000	Sm	
178	Hf	165	1	1.46 ug/l	0.00	3.57	2000	Hf	
181	Ta	165	1	-0.55 ug/l	0.00	6.06	2000	Ta	
182	W	197	1	9.64 ug/l	0.00	1.69	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	19.71	2000	Pt	
205	Tl	197	2	0.18 ug/l	0.00	2.26	2000	Tl	
206	(Pb)	197	2	14.46 ug/l	0.00	1.30	2000	(Pb)	
207	(Pb)	197	2	13.88 ug/l	0.00	0.72	2000	(Pb)	
208	Pb	197	2	14.33 ug/l	0.00	0.43	5000	Pb	
209	Bi	197	1	1.00 ug/l	0.00	1.77	2000	Bi	
232	Th	197	2	22.99 ug/l	0.00	0.39	2000	Th	
238	U	197	2	2.20 ug/l	0.00	0.86	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6666477	1.01	5986087	111.4	70 - 140	Li	
45	Sc	1	513634	0.33	509565	100.8	70 - 140	Sc	
45	Sc	2	7685962	0.52	6903232	111.3	70 - 140	Sc	
72	Ge	1	294390	0.33	275046	107.0	70 - 140	Ge	
72	Ge	2	1523779	0.52	1427904	106.7	70 - 140	Ge	
115	In	2	8999479	1.09	8556659	105.2	70 - 140	In	
165	Ho	1	6801053	0.81	6247878	108.9	70 - 140	Ho	
165	Ho	2	12242014	1.09	11326620	108.1	70 - 140	Ho	
197	Au	1	2101699	0.57	2087035	100.7	70 - 140	Au	
197	Au	2	2635209	0.08	2625939	100.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\077_CCV.D\077_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\077_CCV.D\077_CCV.D#
Date Acquired: Apr 13 2010 10:17 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	92.41	ug/l	0.77	100	92.4	90 - 110	Li	
9	Be	6	2	90.58	ug/l	1.50	100	90.6	90 - 110	Be	
11	B	6	2	183.00	ug/l	3.22	200	91.5	90 - 110	B	
23	Na	45	1	1277.00	ug/l	0.36	1250	102.2	90 - 110	Na	
24	Mg	45	1	2503.00	ug/l	0.61	2500	100.1	90 - 110	Mg	
27	Al	45	1	1185.00	ug/l	1.47	1250	94.8	90 - 110	Al	
28	Si	45	2	1229.00	ug/l	0.80	1250	98.3	90 - 110	Si	
29	Si	45	2	1218.00	ug/l	0.79	1250	97.4	90 - 110	Si	
31	P	45	1	1181.00	ug/l	0.63	1250	94.5	90 - 110	P	
34	S	45	1	18690.00	ug/l	1.93	20000	93.5	90 - 110	S	
34	S	45	2	19490.00	ug/l	0.67	20000	97.5	90 - 110	S	
39	K	45	1	1255.00	ug/l	1.48	1250	100.4	90 - 110	K	
44	Ca	45	2	2469.00	ug/l	1.57	2500	98.8	90 - 110	Ca	
47	Ti	72	2	98.86	ug/l	1.56	100	98.9	90 - 110	Ti	
51	V	72	1	101.10	ug/l	0.48	100	101.1	90 - 110	V	
52	Cr	72	1	97.57	ug/l	0.34	100	97.6	90 - 110	Cr	
55	Mn	72	1	93.53	ug/l	0.55	100	93.5	90 - 110	Mn	
57	Fe	72	1	2366.00	ug/l	0.51	2500	94.6	90 - 110	Fe	
59	Co	72	1	98.00	ug/l	0.98	100	98.0	90 - 110	Co	
60	Ni	72	1	96.20	ug/l	0.72	100	96.2	90 - 110	Ni	
63	Cu	72	1	97.34	ug/l	0.58	100	97.3	90 - 110	Cu	
66	Zn	72	1	95.36	ug/l	1.35	100	95.4	90 - 110	Zn	
75	As	72	1	99.06	ug/l	0.56	100	99.1	90 - 110	As	
78	Se	72	1	92.33	ug/l	0.27	100	92.3	90 - 110	Se	
88	Sr	72	2	99.06	ug/l	0.70	100	99.1	90 - 110	Sr	
89	Y	72	1	98.60	ug/l	0.91	100	98.6	90 - 110	Y	
90	Zr	72	1	107.20	ug/l	2.22	100	107.2	90 - 110	Zr	
93	Nb	72	1	51.01	ug/l	0.89	50	102.0	90 - 110	Nb	
95	Mo	72	2	96.84	ug/l	1.71	100	96.8	90 - 110	Mo	
101	Ru	72	1	100.20	ug/l	0.52	100	100.2	90 - 110	Ru	
103	Rh	72	1	101.40	ug/l	0.22	100	101.4	90 - 110	Rh	
105	Pd	72	1	10.04	ug/l	0.70	10	100.4	90 - 110	Pd	
107	Ag	115	2	19.13	ug/l	1.01	20	95.7	90 - 110	Ag	
111	Cd	115	2	94.38	ug/l	0.66	100	94.4	90 - 110	Cd	
118	Sn	115	2	99.18	ug/l	0.70	100	99.2	90 - 110	Sn	
121	Sb	165	2	49.31	ug/l	1.93	50	98.6	90 - 110	Sb	
125	Te	165	1	92.12	ug/l	1.75	100	92.1	90 - 110	Te	
133	Cs	165	1	97.70	ug/l	1.55	100	97.7	90 - 110	Cs	
137	Ba	165	2	95.73	ug/l	1.96	100	95.7	90 - 110	Ba	
139	La	165	1	101.70	ug/l	1.04	100	101.7	90 - 110	La	
140	Ce	165	1	100.70	ug/l	0.67	100	100.7	90 - 110	Ce	
141	Pr	165	1	98.43	ug/l	0.74	100	98.4	90 - 110	Pr	
146	Nd	165	1	96.23	ug/l	0.18	100	96.2	90 - 110	Nd	
147	Sm	165	2	95.07	ug/l	2.31	100	95.1	90 - 110	Sm	
178	Hf	165	1	88.72	ug/l	1.40	100	88.7	90 - 110	Hf	Fail
181	Ta	165	1	99.83	ug/l	1.60	100	99.8	90 - 110	Ta	
182	W	197	1	96.49	ug/l	1.43	100	96.5	90 - 110	W	
195	Pt	197	1	9.68	ug/l	0.82	10	96.8	90 - 110	Pt	
205	Tl	197	2	99.72	ug/l	0.64	100	99.7	90 - 110	Tl	
206	(Pb)	197	2	101.10	ug/l	1.08	100	101.1	90 - 110	(Pb)	
207	(Pb)	197	2	98.57	ug/l	0.93	100	98.6	90 - 110	(Pb)	
208	Pb	197	2	100.50	ug/l	0.70	100	100.5	90 - 110	Pb	
209	Bi	197	1	101.90	ug/l	1.05	100	101.9	90 - 110	Bi	
232	Th	197	2	91.25	ug/l	1.04	100	91.3	90 - 110	Th	
238	U	197	2	99.66	ug/l	1.07	100	99.7	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6667571	1.53	5986087	111.4	70 - 140	Li	
45	Sc	1	485226	0.42	509565	95.2	70 - 140	Sc	
45	Sc	2	7277088	0.93	6903232	105.4	70 - 140	Sc	
72	Ge	1	290518	0.44	275066	105.6	70 - 140	Ge	
72	Ge	2	1500713	1.81	1427904	105.1	70 - 140	Ge	
115	In	2	8969076	0.60	8556655	104.8	70 - 140	In	
165	Ho	1	6542403	0.37	6247878	104.7	70 - 140	Ho	
165	Ho	2	11929727	1.67	11326620	105.3	70 - 140	Ho	
197	Au	1	2220140	0.35	2087035	106.4	70 - 140	Au	
197	Au	2	2753262	1.16	2625939	104.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\078_CCB.D\078_CCB.D$

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\078_CCB.D\078_CCB.D$
Date Acquired: Apr 13 2010 10:25 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element Flag
7 Li	6	2	-0.289	ug/l	40.49	1.35	Li
9 Be	6	2	-0.007	ug/l	7.28	0.23	Be
11 B	6	2	-0.481	ug/l	18.11	14.94	B
23 Na	45	1	0.405	ug/l	29.95	10.60	Na
24 Mg	45	1	0.218	ug/l	51.51	3.46	Mg
27 Al	45	1	0.115	ug/l	47.50	8.94	Al
28 Si	45	2	-0.014	ug/l	565.86	35.60	Si
29 Si	45	2	-6.674	ug/l	10.19	35.60	Si
31 P	45	1	-0.197	ug/l	837.40	16.46	P
34 S	45	1	-272.700	ug/l	21.06	666.00	S
34 S	45	2	-515.400	ug/l	2.28	666.00	S
39 K	45	1	-1.747	ug/l	12.69	16.66	K
44 Ca	45	2	-15.370	ug/l	2.03	97.40	Ca
47 Ti	72	2	0.550	ug/l	2.75	1.15	Ti
51 V	72	1	0.190	ug/l	11.47	4.74	V
52 Cr	72	1	-0.019	ug/l	68.89	6.52	Cr
55 Mn	72	1	0.040	ug/l	4.28	0.47	Mn
57 Fe	72	1	6.537	ug/l	16.92	40.70	Fe
59 Co	72	1	0.004	ug/l	46.50	0.43	Co
60 Ni	72	1	-0.003	ug/l	149.84	0.46	Ni
63 Cu	72	1	-0.029	ug/l	26.38	0.19	Cu
66 Zn	72	1	-0.032	ug/l	31.28	7.46	Zn
75 As	72	1	-0.010	ug/l	264.48	1.89	As
78 Se	72	1	0.178	ug/l	7.98	0.62	Se
88 Sr	72	2	0.004	ug/l	20.04	0.23	Sr
89 Y	72	1	0.004	ug/l	68.00	0.42	Y
90 Zr	72	1	0.061	ug/l	24.36	0.50	Zr
93 Nb	72	1	0.503	ug/l	33.23	4.46	Nb
95 Mo	72	2	0.161	ug/l	12.68	0.43	Mo
101 Ru	72	1	0.009	ug/l	48.00	2.00	Ru
103 Rh	72	1	0.007	ug/l	25.63	1.63	Rh
105 Pd	72	1	0.001	ug/l	128.07	0.08	Pd
107 Ag	115	2	0.000	ug/l	788.15	0.08	Ag
111 Cd	115	2	0.001	ug/l	127.29	0.11	Cd
118 Sn	115	2	0.068	ug/l	31.42	0.30	Sn
121 Sb	165	2	0.061	ug/l	12.88	2.24	Sb
125 Te	165	1	0.118	ug/l	44.80	1.07	Te
133 Cs	165	1	0.034	ug/l	10.76	0.11	Cs
137 Ba	165	2	0.005	ug/l	77.35	0.39	Ba
139 La	165	1	0.006	ug/l	30.19	0.10	La
140 Ce	165	1	0.008	ug/l	24.65	1.77	Ce
141 Pr	165	1	0.005	ug/l	24.84	0.08	Pr
146 Nd	165	1	0.007	ug/l	48.19	0.21	Nd
147 Sm	165	2	0.001	ug/l	184.45	0.65	Sm
178 Hf	165	1	0.073	ug/l	17.46	2.26	Hf
181 Ta	165	1	-0.316	ug/l	15.90	1.46	Ta
182 W	197	1	1.161	ug/l	15.93	1.68	W
195 Pt	197	1	0.000	ug/l	1286.70	0.12	Pt
205 Tl	197	2	0.401	ug/l	8.67	1.10	Tl
206 (Pb)	197	2	0.021	ug/l	28.22	2.00	(Pb)
207 (Pb)	197	2	0.018	ug/l	33.76	2.00	(Pb)
208 Pb	197	2	0.018	ug/l	33.85	0.35	Pb
209 Bi	197	1	0.002	ug/l	74.40	1.46	Bi
232 Th	197	2	-0.565	ug/l	8.74	1.10	Th
238 U	197	2	0.023	ug/l	17.21	0.16	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6 Li	2	6791083	0.93	5986087	113.4	70 - 140	Li
45 Sc	1	491000	0.54	509565	96.4	70 - 140	Sc
45 Sc	2	7262029	1.23	5903232	105.2	70 - 140	Sc
72 Ge	1	282505	0.76	275046	102.7	70 - 140	Ge
72 Ge	2	1456894	0.55	1427904	102.0	70 - 140	Ge
115 In	2	8880504	0.19	8556655	103.8	70 - 140	In
165 Ho	1	6619827	0.29	6247878	106.0	70 - 140	Ho
165 Ho	2	11744091	1.37	11326620	103.7	70 - 140	Ho
197 Au	1	2233608	0.65	2087035	107.0	70 - 140	Au
197 Au	2	2710146	1.20	2625939	103.2	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

C :Element Failures 0 :Max. Number of Failures Allowed
G :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\079_PB.D\079_PB.D$

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\079_PB.D\079_PB.D$
Date Acquired: Apr 13 2010 10:32 pm
Operator:
Sample Name: LN9L4B
Misc Info: 0089082
Vial Number: 4101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-MB_DOD
Total Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.323	ug/l	45.26	1.25	Li	
9 Be	6	2	-0.010	ug/l	8.17	0.13	Be	
11 B	6	2	9.083	ug/l	0.86	12.50	B	
23 Na	45	1	19.110	ug/l	2.43	12.50	Na	FAIL
24 Mg	45	1	4.721	ug/l	4.08	12.50	Mg	
27 Al	45	1	5.504	ug/l	2.32	7.50	Al	
28 Si	45	2	37.940	ug/l	0.81	62.50	Si	
29 Si	45	2	35.610	ug/l	1.92	62.50	Si	
31 P	45	1	2.026	ug/l	8.34	12.50	P	
34 S	45	1	-219.700	ug/l	33.29	1250.00	S	
34 S	45	2	-449.800	ug/l	2.58	1250.00	S	
39 K	45	1	3.962	ug/l	8.70	25.00	K	
44 Ca	45	2	3.452	ug/l	3.13	25.00	Ca	
47 Ti	72	2	0.559	ug/l	1.23	1.25	Ti	
51 V	72	1	0.593	ug/l	2.51	2.50	V	
52 Cr	72	1	0.181	ug/l	2.51	2.50	Cr	
55 Mn	72	1	0.131	ug/l	3.85	0.50	Mn	
57 Fe	72	1	11.260	ug/l	12.35	12.50	Fe	
59 Co	72	1	0.002	ug/l	38.62	0.50	Co	
60 Ni	72	1	0.299	ug/l	2.61	1.25	Ni	
63 Cu	72	1	-0.134	ug/l	1.16	0.25	Cu	
66 Zn	72	1	1.682	ug/l	0.64	1.25	Zn	FAIL
75 As	72	1	0.059	ug/l	23.61	2.50	As	
78 Se	72	1	0.045	ug/l	172.40	1.25	Se	
88 Sr	72	2	0.050	ug/l	3.13	1.25	Sr	
89 Y	72	1	-0.002	ug/l	35.02	1.25	Y	
90 Zr	72	1	0.525	ug/l	6.87	1.25	Zr	
93 Nb	72	1	0.254	ug/l	56.68	6.25	Nb	
95 Mo	72	2	0.020	ug/l	16.14	1.25	Mo	
101 Ru	72	1	0.006	ug/l	50.61	2.50	Ru	
103 Rh	72	1	0.010	ug/l	12.46	2.50	Rh	
105 Pd	72	1	0.000	ug/l	4561.30	0.13	Pd	
107 Ag	115	2	0.001	ug/l	67.07	0.50	Ag	
111 Cd	115	2	0.006	ug/l	13.57	0.13	Cd	
118 Sn	115	2	0.000	ug/l	9452.10	0.50	Sn	
121 Sb	165	2	-0.012	ug/l	10.11	1.25	Sb	
125 Te	165	1	-0.003	ug/l	1413.30	2.50	Te	
133 Cs	165	1	0.004	ug/l	16.91	0.03	Cs	
137 Ba	165	2	0.927	ug/l	4.02	0.50	Ba	FAIL
139 La	165	1	0.010	ug/l	11.68	0.50	La	
140 Ce	165	1	0.025	ug/l	7.23	2.50	Ce	
141 Pr	165	1	-0.002	ug/l	47.90	0.50	Pr	
146 Nd	165	1	-0.001	ug/l	196.46	0.50	Nd	
147 Sm	165	2	-0.001	ug/l	35.18	2.50	Sm	
178 Hf	165	1	0.922	ug/l	6.85	2.50	Hf	
181 Ta	165	1	-0.278	ug/l	29.76	2.50	Ta	
182 W	197	1	0.215	ug/l	50.96	1.25	W	
195 Pt	197	1	0.010	ug/l	10.69	0.25	Pt	
205 Tl	197	2	0.149	ug/l	2.87	0.50	Tl	
206 (Pb)	197	2	0.178	ug/l	4.12	0.75	(Pb)	
207 (Pb)	197	2	0.192	ug/l	5.54	0.75	(Pb)	
208 Pb	197	2	0.182	ug/l	3.88	0.75	Pb	
209 Bi	197	1	0.014	ug/l	39.99	5.00	Bi	
232 Th	197	2	0.916	ug/l	10.75	0.50	Th	FAIL
238 U	197	2	-0.004	ug/l	35.82	0.25	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7052783	0.98	5986087	117.8	70 - 140	Li	
45 Sc	1	492518	0.72	509565	96.7	70 - 140	Sc	
45 Sc	2	7341578	0.85	6903232	106.3	70 - 140	Sc	
72 Ge	1	293312	0.68	275046	106.6	70 - 140	Ge	
72 Ge	2	1519652	0.92	1427904	106.4	70 - 140	Ge	
115 In	2	8926430	0.67	8556655	104.3	70 - 140	In	
165 Ho	1	6582624	0.21	6247878	105.4	70 - 140	Ho	
165 Ho	2	11936817	1.03	11326620	105.4	70 - 140	Ho	
197 Au	1	2145371	1.29	2087035	102.8	70 - 140	Au	
197 Au	2	2637736	0.64	2625939	100.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

4 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\080_LCS.D\080_LCS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\080_LCS.D\080_LCS.D#
Date Acquired: Apr 13 2010 10:39 pm
Acq. Method: 2010.M
Operator:
Sample Name: LW9L4C
Misc Info:
Vial Number: 4102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: 6-LCS_O
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	503.60	1.64	500	100.7	80 - 120	Li	
9	Be	6	2	464.90	1.76	500	93.0	80 - 120	Be	
11	B	6	2	498.10	1.22	500	99.6	80 - 120	B	
23	Na	45	1	5108.00	2.23	5000	102.2	80 - 120	Na	
24	Mg	45	1	5026.00	2.01	5000	100.5	80 - 120	Mg	
27	Al	45	1	4768.00	1.45	5000	95.4	80 - 120	Al	
28	Si	45	2	33.43	0.41	500	6.7	80 - 120	Si	FAIL
29	Si	45	2	32.94	2.57	500	6.6	80 - 120	Si	FAIL
31	P	45	1	459.50	2.11	5000	9.2	80 - 120	P	FAIL
34	S	45	1	4457.00	4.46	5000	89.1	80 - 120	S	
34	S	45	2	5446.00	1.53	5000	108.9	80 - 120	S	
39	K	45	1	4926.00	0.80	5000	98.5	80 - 120	K	
44	Ca	45	2	5082.00	0.56	5000	101.6	80 - 120	Ca	
47	Ti	72	2	523.10	0.33	500	104.6	80 - 120	Ti	
51	V	72	1	503.80	0.43	500	100.8	80 - 120	V	
52	Cr	72	1	492.90	0.55	500	98.6	80 - 120	Cr	
55	Mn	72	1	476.00	1.36	500	95.2	80 - 120	Mn	
57	Fe	72	1	5081.00	0.17	5000	101.6	80 - 120	Fe	
59	Co	72	1	502.70	1.10	500	100.5	80 - 120	Co	
60	Ni	72	1	490.50	1.24	500	98.1	80 - 120	Ni	
63	Cu	72	1	476.00	1.05	500	95.2	80 - 120	Cu	
66	Zn	72	1	477.00	0.99	500	95.4	80 - 120	Zn	
75	As	72	1	493.30	0.19	500	98.7	80 - 120	As	
78	Se	72	1	450.00	0.18	500	90.0	80 - 120	Se	
88	Sr	72	2	516.00	1.11	500	103.2	80 - 120	Sr	
89	Y	72	1	0.03	7.40	500	0.0	80 - 120	Y	FAIL
90	Zr	72	1	500.20	0.68	500	100.0	80 - 120	Zr	
93	Nb	72	1	109.40	0.99	500	21.9	80 - 120	Nb	FAIL
95	Mo	72	2	500.60	1.48	500	100.1	80 - 120	Mo	
101	Ru	72	1	0.00	134.88	500	0.0	80 - 120	Ru	FAIL
103	Rh	72	1	0.04	2.95	500	0.0	80 - 120	Rh	FAIL
105	Pd	72	1	0.03	6.03	500	0.0	80 - 120	Pd	FAIL
107	Ag	115	2	47.81	0.73	50	95.6	80 - 120	Ag	
111	Cd	115	2	479.20	0.94	500	95.8	80 - 120	Cd	
118	Sn	115	2	510.30	0.62	500	102.1	80 - 120	Sn	
121	Sb	165	2	236.30	1.08	250	94.5	80 - 120	Sb	
125	Te	165	1	0.16	46.35	500	0.0	80 - 120	Te	FAIL
133	Cs	165	1	0.01	7.53	500	0.0	80 - 120	Cs	FAIL
137	Ba	165	2	500.60	1.24	500	100.1	80 - 120	Ba	
139	La	165	1	0.01	21.55	500	0.0	80 - 120	La	FAIL
140	Ce	165	1	0.00	138.25	500	0.0	80 - 120	Ce	FAIL
141	Pr	165	1	0.00	4.22	500	0.0	80 - 120	Pr	FAIL
146	Nd	165	1	0.00	75.94	500	0.0	80 - 120	Nd	FAIL
147	Sm	165	2	482.90	1.22	500	96.6	80 - 120	Sm	
178	Hf	165	1	10.42	11.22	500	2.1	80 - 120	Hf	FAIL
181	Ta	165	1	3.01	13.06	500	0.6	80 - 120	Ta	FAIL
182	W	197	1	544.40	0.23	500	108.9	80 - 120	W	
195	Pt	197	1	0.04	14.71	500	0.0	80 - 120	Pt	FAIL
205	Tl	197	2	561.00	1.00	500	112.2	80 - 120	Tl	
206	(Pb)	197	2	531.00	1.97	500	106.2	80 - 120	(Pb)	
207	(Pb)	197	2	553.10	1.20	500	110.6	80 - 120	(Pb)	
208	Pb	197	2	544.70	0.97	500	108.9	80 - 120	Pb	
209	Bi	197	1	521.80	0.05	500	104.4	80 - 120	Bi	
232	Th	197	2	560.10	1.05	500	112.0	80 - 120	Th	
238	U	197	2	582.20	1.61	500	116.4	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6671728	0.86	5986087	111.5	70 - 140	Li	
45	Sc	1	492015	1.34	509565	96.6	70 - 140	Sc	
45	Sc	2	7271883	0.59	6903232	105.3	70 - 140	Sc	
72	Ge	1	282448	0.59	275046	102.7	70 - 140	Ge	
72	Ge	2	1468883	1.38	1427904	102.9	70 - 140	Ge	
115	In	2	8735963	0.69	8556655	102.1	70 - 140	In	
165	Ho	1	6614039	1.12	6247878	105.9	70 - 140	Ho	
165	Ho	2	11701577	0.43	11326620	103.3	70 - 140	Ho	
197	Au	1	2096300	0.47	2087035	100.4	70 - 140	Au	
197	Au	2	2535672	0.32	2625935	96.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

17 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\081SMPL.D\081SMPL.D$

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\081SMPL.D\081SMPL.D$
Date Acquired: Apr 13 2010 10:46 pm
Operator:
Sample Name: LWXPM
Misc Info:
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	23.16 ug/l	0.00	0.08	1000	Li	
9	Be	6		2	0.79 ug/l	0.00	1.44	1000	Be	
11	B	6		2	40.96 ug/l	0.00	1.82	2000	B	
23	Na	45		1	979.20 ug/l	0.00	1.59	200000	Na	
24	Mg	45		1	15200.00 ug/l	0.00	0.67	200000	Mg	
27	Al	45		1	14080.00 ug/l	0.00	0.77	200000	Al	
28	Si	45		2	2500.00 ug/l	0.00	7.52	200000	Si	
29	Si	45		2	2430.00 ug/l	0.00	6.19	200000	Si	
31	P	45		1	1896.00 ug/l	0.00	0.21	200000	P	
34	S	45		1	4981.00 ug/l	0.00	2.67	200000	S	
34	S	45		2	6332.00 ug/l	0.00	1.43	200000	S	
39	K	45		1	2741.00 ug/l	0.00	1.46	200000	K	
44	Ca	45		2	83750.00 ug/l	0.00	1.09	200000	Ca	
47	Ti	72		2	463.80 ug/l	0.00	1.58	5000	Ti	
51	V	72		1	36.30 ug/l	0.00	1.30	2000	V	
52	Cr	72		1	139.40 ug/l	0.00	1.55	2000	Cr	
55	Mn	72		1	1353.00 ug/l	0.00	0.75	5000	Mn	
57	Fe	72		1	161400.00 ug/l	0.00	0.87	200000	Fe	
59	Co	72		1	23.25 ug/l	0.00	1.50	2000	Co	
60	Ni	72		1	75.36 ug/l	0.00	0.90	2000	Ni	
63	Cu	72		1	236.10 ug/l	0.00	1.15	5000	Cu	
66	Zn	72		1	1917.00 ug/l	0.00	1.24	5000	Zn	
75	As	72		1	34.79 ug/l	0.00	1.15	2000	As	
78	Se	72		1	2.51 ug/l	0.00	5.05	2000	Se	
88	Sr	72		2	267.00 ug/l	0.00	2.22	5000	Sr	
89	Y	72		1	14.36 ug/l	0.00	0.89	2000	Y	
90	Zr	72		1	17.31 ug/l	0.00	1.30	2000	Zr	
93	Nb	72		1	7.00 ug/l	0.00	12.01	2000	Nb	
95	Mo	72		2	12.95 ug/l	0.00	1.14	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	15.81	2000	Ru	
103	Rh	72		1	0.08 ug/l	0.00	5.31	2000	Rh	
105	Pd	72		1	0.04 ug/l	0.00	10.43	2000	Pd	
107	Ag	115		2	2.25 ug/l	0.00	0.80	400	Ag	
111	Cd	115		2	8.53 ug/l	0.00	1.50	2000	Cd	
118	Sn	115		2	614.70 ug/l	0.00	0.45	2000	Sn	
121	Sb	165		2	3.54 ug/l	0.00	1.61	1000	Sb	
125	Te	165		1	0.03 ug/l	0.00	83.17	2000	Te	
133	Cs	165		1	1.09 ug/l	0.00	2.48	2000	Cs	
137	Ba	165		2	468.30 ug/l	0.00	1.30	5000	Ba	
139	La	165		1	16.02 ug/l	0.00	0.61	2000	La	
140	Ce	165		1	34.45 ug/l	0.00	0.43	2000	Ce	
141	Pr	165		1	4.36 ug/l	0.00	1.19	2000	Pr	
146	Nd	165		1	18.13 ug/l	0.00	1.07	2000	Nd	
147	Sm	165		2	3.72 ug/l	0.00	1.03	2000	Sm	
178	Hf	165		1	0.26 ug/l	0.00	0.94	2000	Hf	
181	Ta	165		1	-0.49 ug/l	0.00	7.54	2000	Ta	
182	W	197		1	5.96 ug/l	0.00	5.48	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	18.93	2000	Pt	
205	Tl	197		2	1.01 ug/l	0.00	3.19	2000	Tl	
206	(Pb)	197		2	1760.00 ug/l	0.00	1.10	2000	(Pb)	
207	(Pb)	197		2	1689.00 ug/l	0.00	1.02	2000	(Pb)	
208	Pb	197		2	1725.00 ug/l	0.00	1.00	5000	Pb	
209	Bi	197		1	0.84 ug/l	0.00	1.85	2000	Bi	
232	Th	197		2	15.70 ug/l	0.00	7.83	2000	Th	
238	U	197		2	1.68 ug/l	0.00	4.74	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6841924	0.12	5986087	114.3	70 - 140	Li	
45	Sc	1	503680	0.65	509565	98.8	70 - 140	Sc	
45	Sc	2	7480981	1.77	6903232	108.4	70 - 140	Sc	
72	Ge	1	285105	1.06	275046	103.7	70 - 140	Ge	
72	Ge	2	1451410	1.11	1427904	101.6	70 - 140	Ge	
115	In	2	8845189	0.70	8556655	99.9	70 - 140	In	
165	Ho	1	6581430	0.59	6247878	105.3	70 - 140	Ho	
165	Ho	2	11624967	0.55	11326620	102.6	70 - 140	Ho	
197	Au	1	2100403	0.91	2087035	100.6	70 - 140	Au	
197	Au	2	2507845	0.53	2625939	95.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\082SMPL.D\082SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\082SMPL.D\082SMPL.D#
Date Acquired: Apr 13 2010 10:53 pm
Operator:
Sample Name: LNXFMV
Misc Info:
Vial Number: 4104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 25.00
Total Dil Factor: 25.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	3.96 ug/l	0.00	3.80	1000	Li	
9	Be	6	2	0.15 ug/l	0.00	2.64	1000	Be	
11	B	6	2	8.17 ug/l	0.00	1.33	2000	B	
23	Na	45	1	181.40 ug/l	0.00	1.51	200000	Na	
24	Mg	45	1	2901.00 ug/l	0.00	0.86	200000	Mg	
27	Al	45	1	2846.00 ug/l	0.00	1.64	200000	Al	
28	Si	45	2	575.60 ug/l	0.00	9.08	200000	Si	
29	Si	45	2	527.30 ug/l	0.00	9.52	200000	Si	
31	P	45	1	350.40 ug/l	0.00	0.81	200000	P	
34	S	45	1	1242.00 ug/l	0.00	4.36	200000	S	
34	S	45	2	1211.00 ug/l	0.00	3.71	200000	S	
39	K	45	1	543.10 ug/l	0.00	1.27	200000	K	
44	Ca	45	2	15930.00 ug/l	0.00	0.74	200000	Ca	
47	Ti	72	2	83.46 ug/l	0.00	5.35	5000	Ti	
51	V	72	1	5.08 ug/l	0.00	0.41	2000	V	
52	Cr	72	1	26.33 ug/l	0.00	1.10	2000	Cr	
55	Mn	72	1	260.40 ug/l	0.00	1.09	5000	Mn	
57	Fe	72	1	30330.00 ug/l	0.00	1.28	200000	Fe	
59	Co	72	1	4.39 ug/l	0.00	1.09	2000	Co	
60	Ni	72	1	14.80 ug/l	0.00	1.50	2000	Ni	
63	Cu	72	1	46.50 ug/l	0.00	0.58	5000	Cu	
66	Zn	72	1	408.80 ug/l	0.00	0.63	5000	Zn	
75	As	72	1	6.27 ug/l	0.00	0.08	2000	As	
78	Se	72	1	0.54 ug/l	0.00	12.90	2000	Se	
88	Sr	72	2	59.98 ug/l	0.00	0.81	5000	Sr	
89	Y	72	1	2.64 ug/l	0.00	0.49	2000	Y	
90	Zr	72	1	2.15 ug/l	0.00	1.95	2000	Zr	
93	Nb	72	1	0.93 ug/l	0.00	24.40	2000	Nb	
95	Mo	72	2	2.26 ug/l	0.00	1.04	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	14.10	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	23.74	2000	Rh	
105	Pd	72	1	0.01 ug/l	0.00	14.60	2000	Pd	
107	Ag	115	2	0.41 ug/l	0.00	2.86	400	Ag	
111	Cd	115	2	1.69 ug/l	0.00	1.07	2000	Cd	
118	Sn	115	2	86.74 ug/l	0.00	1.60	2000	Sn	
121	Sb	165	2	0.90 ug/l	0.00	2.55	1000	Sb	
125	Te	165	1	-0.03 ug/l	0.00	124.25	2000	Te	
133	Cs	165	1	0.19 ug/l	0.00	0.91	2000	Cs	
137	Ba	165	2	88.94 ug/l	0.00	0.92	5000	Ba	
139	La	165	1	2.87 ug/l	0.00	1.31	2000	La	
140	Ce	165	1	6.49 ug/l	0.00	1.65	2000	Ce	
141	Pr	165	1	0.78 ug/l	0.00	0.99	2000	Pr	
146	Nd	165	1	3.34 ug/l	0.00	2.99	2000	Nd	
147	Sm	165	2	0.70 ug/l	0.00	0.86	2000	Sm	
178	Hf	165	1	-0.12 ug/l	0.00	1.92	2000	Hf	
181	Ta	165	1	-0.62 ug/l	0.00	1.65	2000	Ta	
182	W	197	1	0.77 ug/l	0.00	16.52	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	33.87	2000	Pt	
205	Tl	197	2	0.25 ug/l	0.00	2.59	2000	Tl	
206	(Pb)	197	2	315.30 ug/l	0.00	1.30	2000	(Pb)	
207	(Pb)	197	2	304.70 ug/l	0.00	1.44	2000	(Pb)	
208	Pb	197	2	310.60 ug/l	0.00	1.44	5000	Pb	
209	Bi	197	1	0.15 ug/l	0.00	4.01	2000	Bi	
232	Th	197	2	-0.17 ug/l	0.00	19.89	2000	Th	
238	U	197	2	0.27 ug/l	0.00	1.96	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7007875	0.68	5986087	117.1	70 - 140	Li	
45	Sc	1	508858	0.55	509565	99.9	70 - 140	Sc	
45	Sc	2	7688593	1.33	6903232	111.4	70 - 140	Sc	
72	Ge	1	292265	0.72	275046	106.3	70 - 140	Ge	
72	Ge	2	1516151	0.64	1427504	106.2	70 - 140	Ge	
115	In	2	9070559	0.78	8556655	106.0	70 - 140	In	
165	Ho	1	6781544	0.47	6247878	108.5	70 - 140	Ho	
165	Ho	2	11997919	0.58	11326620	105.9	70 - 140	Ho	
197	Au	1	2326023	0.92	2087035	111.5	70 - 140	Au	
197	Au	2	2784775	0.35	2625939	106.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogam.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\083SMPL.D\083SMPL.D#
Date Acquired: Apr 13 2010 11:01 pm
Operator:
Sample Name: LWXFMS
Misc Info:
Vial Number: 4105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	236.80 ug/l	0.00	1.91	1000	Li	
9 Be	6		2	205.90 ug/l	0.00	1.35	1000	Be	
11 B	6		2	257.30 ug/l	0.00	0.18	2000	B	
23 Na	45		1	3166.00 ug/l	0.00	1.19	200000	Na	
24 Mg	45		1	14110.00 ug/l	0.00	1.65	200000	Mg	
27 Al	45		1	16260.00 ug/l	0.00	1.12	200000	Al	
28 Si	45		2	3399.00 ug/l	0.00	3.52	200000	Si	
29 Si	45		2	3568.00 ug/l	0.00	2.49	200000	Si	
31 P	45		1	1810.00 ug/l	0.00	1.46	200000	P	
34 S	45		1	7121.00 ug/l	0.00	2.70	200000	S	
34 S	45		2	8625.00 ug/l	0.00	1.67	200000	S	
39 K	45		1	5136.00 ug/l	0.00	1.16	200000	K	
44 Ca	45		2	84480.00 ug/l	0.00	1.55	200000	Ca	
47 Ti	72		2	607.80 ug/l	0.00	2.71	5000	Ti	
51 V	72		1	249.50 ug/l	0.00	2.10	2000	V	
52 Cr	72		1	331.00 ug/l	0.00	1.56	2000	Cr	
55 Mn	72		1	2818.00 ug/l	0.00	1.03	5000	Mn	
57 Fe	72		1	381000.00 ug/l	0.00	1.06	200000	Fe	>LDR
59 Co	72		1	247.10 ug/l	0.00	1.88	2000	Co	
60 Ni	72		1	311.30 ug/l	0.00	1.95	2000	Ni	
63 Cu	72		1	576.50 ug/l	0.00	1.24	5000	Cu	
66 Zn	72		1	1194.00 ug/l	0.00	1.69	5000	Zn	
75 As	72		1	272.50 ug/l	0.00	0.72	2000	As	
78 Se	72		1	167.30 ug/l	0.00	1.62	2000	Se	
88 Sr	72		2	571.60 ug/l	0.00	0.44	5000	Sr	
89 Y	72		1	10.73 ug/l	0.00	1.75	2000	Y	
90 Zr	72		1	219.50 ug/l	0.00	1.08	2000	Zr	
93 Nb	72		1	48.59 ug/l	0.00	1.08	2000	Nb	
95 Mo	72		2	236.10 ug/l	0.00	1.81	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	26.75	2000	Ru	
103 Rh	72		1	0.06 ug/l	0.00	3.68	2000	Rh	
105 Pd	72		1	0.05 ug/l	0.00	9.09	2000	Pd	
107 Ag	115		2	21.92 ug/l	0.00	0.84	400	Ag	
111 Cd	115		2	217.00 ug/l	0.00	1.54	2000	Cd	
118 Sn	115		2	2140.00 ug/l	0.00	1.36	2000	Sn	>LDR
121 Sb	165		2	74.99 ug/l	0.00	1.18	1000	Sb	
125 Te	165		1	0.13 ug/l	0.00	44.42	2000	Te	
133 Cs	165		1	1.09 ug/l	0.00	1.44	2000	Cs	
137 Ba	165		2	779.20 ug/l	0.00	1.85	5000	Ba	
139 La	165		1	12.61 ug/l	0.00	1.11	2000	La	
140 Ce	165		1	27.90 ug/l	0.00	2.13	2000	Ce	
141 Pr	165		1	3.52 ug/l	0.00	4.15	2000	Pr	
146 Nd	165		1	13.88 ug/l	0.00	2.46	2000	Nd	
147 Sm	165		2	218.20 ug/l	0.00	0.66	2000	Sm	
178 Hf	165		1	0.45 ug/l	0.00	3.00	2000	Hf	
181 Ta	165		1	-0.45 ug/l	0.00	10.65	2000	Ta	
182 W	197		1	200.10 ug/l	0.00	0.76	2000	W	
195 Pt	197		1	0.01 ug/l	0.00	22.54	2000	Pt	
205 Tl	197		2	234.50 ug/l	0.00	1.23	2000	Tl	
206 (Pb)	197		2	1458.00 ug/l	0.00	1.17	2000	(Pb)	
207 (Pb)	197		2	1429.00 ug/l	0.00	1.56	2000	(Pb)	
208 Pb	197		2	1456.00 ug/l	0.00	1.31	5000	Pb	
209 Bi	197		1	229.20 ug/l	0.00	0.52	2000	Bi	
232 Th	197		2	240.00 ug/l	0.00	0.46	2000	Th	
238 U	197		2	246.90 ug/l	0.00	1.76	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6431658	1.06	5986087	107.4	70 - 140	Li	
45 Sc	1	490574	1.07	509565	96.3	70 - 140	Sc	
45 Sc	2	7172528	0.22	6903212	103.9	70 - 140	Sc	
72 Ge	1	290395	0.99	275046	105.6	70 - 140	Ge	
72 Ge	2	1437411	0.85	1427904	100.7	70 - 140	Ge	
115 In	2	8216954	1.41	8556655	96.0	70 - 140	In	
165 Ho	1	6197724	1.67	6247878	99.2	70 - 140	Ho	
165 Ho	2	11093037	0.68	11326620	97.9	70 - 140	Ho	
197 Au	1	1959965	0.47	2087035	93.9	70 - 140	Au	
197 Au	2	2341874	0.32	2625939	89.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\084SMPL.D\084SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\084SMPL.D\084SMPL.D#
Date Acquired: Apr 13 2010 11:08 pm
Operator:
Sample Name: LWIFMD
Misc Info:
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	240.00 ug/l	0.00	1.82	1000	Li	
9	Be	6		2	201.70 ug/l	0.00	0.92	1000	Be	
11	B	6		2	255.40 ug/l	0.00	0.79	2000	B	
23	Na	45		1	3124.00 ug/l	0.00	0.48	200000	Na	
24	Mg	45		1	18910.00 ug/l	0.00	0.52	200000	Mg	
27	Al	45		1	26670.00 ug/l	0.00	0.77	200000	Al	
28	Si	45		2	2888.00 ug/l	0.00	5.96	200000	Si	
29	Si	45		2	2915.00 ug/l	0.00	6.03	200000	Si	
31	P	45		1	1951.00 ug/l	0.00	0.17	200000	P	
34	S	45		1	10860.00 ug/l	0.00	2.70	200000	S	
34	S	45		2	12180.00 ug/l	0.00	0.86	200000	S	
39	K	45		1	5770.00 ug/l	0.00	0.94	200000	K	
44	Ca	45		2	91860.00 ug/l	0.00	0.90	200000	Ca	
47	Ti	72		2	631.40 ug/l	0.00	5.71	5000	Ti	
51	V	72		1	262.90 ug/l	0.00	0.23	2000	V	
52	Cr	72		1	320.20 ug/l	0.00	1.05	2000	Cr	
55	Mn	72		1	1829.00 ug/l	0.00	0.52	5000	Mn	
57	Fe	72		1	153400.00 ug/l	0.00	0.30	200000	Fe	
59	Co	72		1	235.40 ug/l	0.00	0.82	2000	Co	
60	Ni	72		1	403.70 ug/l	0.00	0.68	2000	Ni	
63	Cu	72		1	407.10 ug/l	0.00	0.76	5000	Cu	
66	Zn	72		1	1761.00 ug/l	0.00	1.04	5000	Zn	
75	As	72		1	257.70 ug/l	0.00	0.57	2000	As	
78	Se	72		1	204.20 ug/l	0.00	0.23	2000	Se	
88	Sr	72		2	548.40 ug/l	0.00	0.37	5000	Sr	
89	Y	72		1	20.07 ug/l	0.00	0.99	2000	Y	
90	Zr	72		1	234.80 ug/l	0.00	1.32	2000	Zr	
93	Nb	72		1	53.19 ug/l	0.00	0.83	2000	Nb	
95	Mo	72		2	226.60 ug/l	0.00	0.53	2000	Mo	
101	Ru	72		2	-0.01 ug/l	0.00	66.69	2000	Ru	
103	Rh	72		1	0.06 ug/l	0.00	8.43	2000	Rh	
105	Pd	72		1	0.07 ug/l	0.00	12.35	2000	Pd	
107	Ag	115		2	21.82 ug/l	0.00	0.54	400	Ag	
111	Cd	115		2	215.50 ug/l	0.00	2.13	2000	Cd	
118	Sn	115		2	650.40 ug/l	0.00	0.65	2000	Sn	
121	Sb	165		2	61.81 ug/l	0.00	2.02	1000	Sb	
125	Te	165		1	0.07 ug/l	0.00	90.07	2000	Te	
133	Cs	165		1	1.39 ug/l	0.00	0.93	2000	Cs	
137	Ba	165		2	963.80 ug/l	0.00	2.38	5000	Ba	
139	La	165		1	22.10 ug/l	0.00	1.07	2000	La	
140	Ce	165		1	48.65 ug/l	0.00	0.70	2000	Ce	
141	Pr	165		1	5.53 ug/l	0.00	0.40	2000	Pr	
146	Nd	165		1	23.09 ug/l	0.00	1.24	2000	Nd	
147	Sm	165		2	213.80 ug/l	0.00	1.90	2000	Sm	
178	Hf	165		1	0.62 ug/l	0.00	3.26	2000	Hf	
181	Ta	165		1	-0.46 ug/l	0.00	10.75	2000	Ta	
182	W	197		1	202.60 ug/l	0.00	1.04	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	13.18	2000	Pt	
205	Tl	197		2	226.60 ug/l	0.00	1.41	2000	Tl	
206	(Pb)	197		2	1433.00 ug/l	0.00	1.15	2000	(Pb)	
207	(Pb)	197		2	1384.00 ug/l	0.00	2.61	2000	(Pb)	
208	Pb	197		2	1415.00 ug/l	0.00	1.92	5000	Pb	
209	Bi	197		1	217.00 ug/l	0.00	1.51	2000	Bi	
232	Th	197		2	227.30 ug/l	0.00	2.49	2000	Th	
238	U	197		2	238.00 ug/l	0.00	0.73	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6447293	0.51	5986087	107.7	70 - 140	Li	
45	Sc	1	505134	0.20	509565	99.1	70 - 140	Sc	
45	Sc	2	7487687	0.28	6903232	108.5	70 - 140	Sc	
72	Ge	1	285083	0.79	275046	103.6	70 - 140	Ge	
72	Ge	2	1433243	0.54	1427904	100.4	70 - 140	Ge	
115	In	2	8456031	0.22	8556655	98.8	70 - 140	In	
165	Ho	1	6447090	0.33	6247878	103.2	70 - 140	Ho	
165	Ho	2	11688031	1.71	11326620	103.2	70 - 140	Ho	
197	Au	1	2043612	0.10	2087035	97.9	70 - 140	Au	
197	Au	2	2501148	1.85	2625939	95.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\085SMPL.D\085SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\085SMPL.D\085SMPL.D#
Date Acquired: Apr 13 2010 11:14 pm
Operator:
Sample Name: LWXPMA
Misc Info:
Vial Number: 4107
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	67.32 ug/l	0.00	0.27	1000	Li	
9 Be	6		2	5.13 ug/l	0.00	0.80	1000	Be	
11 B	6		2	486.50 ug/l	0.00	0.45	2000	B	
23 Na	45		1	1341.00 ug/l	0.00	0.21	200000	Na	
24 Mg	45		1	14100.00 ug/l	0.00	1.34	200000	Mg	
27 Al	45		1	12900.00 ug/l	0.00	1.31	200000	Al	
28 Si	45		2	5296.00 ug/l	0.00	4.15	200000	Si	
29 Si	45		2	5305.00 ug/l	0.00	4.61	200000	Si	
31 P	45		1	2155.00 ug/l	0.00	0.59	200000	P	
34 S	45		1	4596.00 ug/l	0.00	3.18	200000	S	
34 S	45		2	5580.00 ug/l	0.00	3.34	200000	S	
39 K	45		1	3405.00 ug/l	0.00	2.17	200000	K	
44 Ca	45		2	76660.00 ug/l	0.00	1.19	200000	Ca	
47 Ti	72		2	463.10 ug/l	0.00	6.26	5000	Ti	
51 V	72		1	130.40 ug/l	0.00	1.74	2000	V	
52 Cr	72		1	218.60 ug/l	0.00	0.54	2000	Cr	
55 Mn	72		1	1211.00 ug/l	0.00	1.77	5000	Mn	
57 Fe	72		1	143500.00 ug/l	0.00	0.64	200000	Fe	
59 Co	72		1	40.10 ug/l	0.00	0.34	2000	Co	
60 Ni	72		1	113.20 ug/l	0.00	0.22	2000	Ni	
63 Cu	72		1	217.20 ug/l	0.00	1.75	5000	Cu	
66 Zn	72		1	1739.00 ug/l	0.00	1.22	5000	Zn	
75 As	72		1	129.20 ug/l	0.00	1.06	2000	As	
78 Se	72		1	47.91 ug/l	0.00	0.44	2000	Se	
88 Sr	72		2	291.20 ug/l	0.00	0.83	5000	Sr	
89 Y	72		1	12.74 ug/l	0.00	1.82	2000	Y	
90 Zr	72		1	64.69 ug/l	0.00	0.94	2000	Zr	
93 Nb	72		1	2.49 ug/l	0.00	11.16	2000	Nb	
95 Mo	72		2	59.93 ug/l	0.00	2.56	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	40.90	2000	Ru	
103 Rh	72		1	0.07 ug/l	0.00	5.17	2000	Rh	
105 Pd	72		1	0.04 ug/l	0.00	1.06	2000	Pd	
107 Ag	115		2	20.11 ug/l	0.00	2.01	400	Ag	
111 Cd	115		2	12.40 ug/l	0.00	1.50	2000	Cd	
118 Sn	115		2	569.00 ug/l	0.00	2.81	2000	Sn	
121 Sb	165		2	50.16 ug/l	0.00	0.53	1000	Sb	
125 Te	165		1	0.01 ug/l	0.00	279.85	2000	Te	
133 Cs	165		1	1.00 ug/l	0.00	1.38	2000	Cs	
137 Ba	165		2	446.60 ug/l	0.00	0.72	5000	Ba	
139 La	165		1	14.04 ug/l	0.00	1.33	2000	La	
140 Ce	165		1	30.74 ug/l	0.00	1.84	2000	Ce	
141 Pr	165		1	1.87 ug/l	0.00	1.48	2000	Pr	
146 Nd	165		1	16.23 ug/l	0.00	0.76	2000	Nd	
147 Sm	165		2	96.52 ug/l	0.00	1.68	2000	Sm	
178 Hf	165		1	0.33 ug/l	0.00	10.73	2000	Hf	
181 Ta	165		1	-0.35 ug/l	0.00	23.57	2000	Ta	
182 W	197		1	54.90 ug/l	0.00	2.44	2000	W	
195 Pt	197		1	0.00 ug/l	0.00	15.68	2000	Pt	
205 Tl	197		2	21.77 ug/l	0.00	1.46	2000	Tl	
206 (Pb)	197		2	1628.00 ug/l	0.00	1.86	2000	(Pb)	
207 (Pb)	197		2	1560.00 ug/l	0.00	2.24	2000	(Pb)	
208 Pb	197		2	1593.00 ug/l	0.00	2.34	5000	Pb	
209 Bi	197		1	0.81 ug/l	0.00	2.29	2000	Bi	
232 Th	197		2	29.63 ug/l	0.00	1.56	2000	Th	
238 U	197		2	11.92 ug/l	0.00	1.18	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6662758	0.85	5986087	111.6	70 - 140	Li	
45 Sc	1	499447	0.35	509565	98.0	70 - 140	Sc	
45 Sc	2	7552860	1.28	6903232	109.4	70 - 140	Sc	
72 Ge	1	286711	0.77	275046	104.2	70 - 140	Ge	
72 Ge	2	1465927	1.93	1427904	102.7	70 - 140	Ge	
115 In	2	8777412	1.38	8556655	102.6	70 - 140	In	
165 Ho	1	6577794	0.72	6247878	105.3	70 - 140	Ho	
165 Ho	2	11912357	1.40	11326620	105.2	70 - 140	Ho	
197 Au	1	2114496	2.00	2087035	101.3	70 - 140	Au	
197 Au	2	2570672	1.74	2625939	97.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\086SMPL.D\086SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\086SMPL.D\086SMPL.D#
Date Acquired: Apr 13 2010 11:21 pm
Operator:
Sample Name: LWXFW
Misc Info:
Vial Number: 4108
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	42.31 ug/l	0.00	2.02	1000	Li	
9	Be	6	2	1.12 ug/l	0.00	1.44	1000	Be	
11	B	6	2	25.28 ug/l	0.00	2.61	2000	B	
23	Na	45	1	539.80 ug/l	0.00	8.03	200000	Na	
24	Mg	45	1	33130.00 ug/l	0.00	0.94	200000	Mg	
27	Al	45	1	23030.00 ug/l	0.00	1.22	200000	Al	
28	Si	45	2	9003.00 ug/l	0.00	4.36	200000	Si	
29	Si	45	2	8599.00 ug/l	0.00	4.45	200000	Si	
31	P	45	1	1218.00 ug/l	0.00	1.50	200000	P	
34	S	45	1	409.80 ug/l	0.00	15.11	200000	S	
34	S	45	2	313.40 ug/l	0.00	3.58	200000	S	
39	K	45	1	4547.00 ug/l	0.00	1.75	200000	K	
44	Ca	45	2	104300.00 ug/l	0.00	0.47	200000	Ca	
47	Ti	72	2	463.70 ug/l	0.00	5.84	5000	Ti	
51	V	72	1	53.95 ug/l	0.00	0.81	2000	V	
52	Cr	72	1	39.14 ug/l	0.00	0.33	2000	Cr	
55	Mn	72	1	1478.00 ug/l	0.00	0.40	5000	Mn	
57	Fe	72	1	41360.00 ug/l	0.00	0.99	200000	Fe	
59	Co	72	1	24.19 ug/l	0.00	0.90	2000	Co	
60	Ni	72	1	43.47 ug/l	0.00	0.40	2000	Ni	
63	Cu	72	1	53.08 ug/l	0.00	0.66	5000	Cu	
66	Zn	72	1	192.70 ug/l	0.00	0.61	5000	Zn	
75	As	72	1	8.19 ug/l	0.00	1.09	2000	As	
78	Se	72	1	2.95 ug/l	0.00	0.81	2000	Se	
88	Sr	72	1	196.00 ug/l	0.00	1.16	5000	Sr	
89	Y	72	1	27.69 ug/l	0.00	1.10	2000	Y	
90	Zr	72	1	19.17 ug/l	0.00	3.72	2000	Zr	
93	Nb	72	1	1.07 ug/l	0.00	12.22	2000	Nb	
95	Mo	72	2	1.46 ug/l	0.00	1.90	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	32.57	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	6.62	2000	Rh	
105	Pd	72	1	0.06 ug/l	0.00	8.91	2000	Pd	
107	Ag	115	2	0.22 ug/l	0.00	2.19	400	Ag	
111	Cd	115	2	0.61 ug/l	0.00	3.95	2000	Cd	
118	Sn	115	2	9.40 ug/l	0.00	2.10	2000	Sn	
121	Sb	165	2	0.34 ug/l	0.00	1.24	1000	Sb	
125	Te	165	1	-0.03 ug/l	0.00	66.09	2000	Te	
133	Cs	165	1	1.68 ug/l	0.00	0.99	2000	Cs	
137	Ba	165	2	248.20 ug/l	0.00	0.81	5000	Ba	
139	La	165	1	28.39 ug/l	0.00	1.89	2000	La	
140	Ce	165	1	67.91 ug/l	0.00	1.98	2000	Ce	
141	Pr	165	1	8.88 ug/l	0.00	2.32	2000	Pr	
146	Nd	165	1	37.59 ug/l	0.00	1.25	2000	Nd	
147	Sm	165	2	8.11 ug/l	0.00	1.71	2000	Sm	
178	Hf	165	1	0.21 ug/l	0.00	3.76	2000	Hf	
181	Ta	165	1	-0.59 ug/l	0.00	4.05	2000	Ta	
182	W	197	1	1.53 ug/l	0.00	15.73	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	84.40	2000	Pt	
205	Tl	197	2	0.67 ug/l	0.00	1.68	2000	Tl	
206	(Pb)	197	2	51.84 ug/l	0.00	0.65	2000	(Pb)	
207	(Pb)	197	2	49.19 ug/l	0.00	1.40	2000	(Pb)	
208	Pb	197	2	50.74 ug/l	0.00	1.01	5000	Pb	
209	Bi	197	1	0.29 ug/l	0.00	3.05	2000	Bi	
232	Th	197	2	5.70 ug/l	0.00	3.19	2000	Th	
238	U	197	2	1.44 ug/l	0.00	0.79	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6749446	0.59	5986087	112.8	70 - 140	Li	
45	Sc	1	501338	0.12	509565	98.4	70 - 140	Sc	
45	Sc	2	7656124	0.44	6903232	110.9	70 - 140	Sc	
72	Ge	1	277782	0.44	275046	101.0	70 - 140	Ge	
72	Ge	2	1418815	0.59	1427904	99.4	70 - 140	Ge	
115	In	2	8555590	0.89	8556655	100.0	70 - 140	In	
165	Ho	1	6559224	0.57	6247878	105.0	70 - 140	Ho	
165	Ho	2	11802635	0.72	11326620	104.2	70 - 140	Ho	
197	Au	1	2122257	0.77	2087035	101.7	70 - 140	Au	
197	Au	2	2566184	0.25	2625939	97.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\087_CCV.D\087_CCV.D$

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\087_CCV.D\087_CCV.D$
Date Acquired: Apr 13 2010 11:29 pm
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	92.95 ug/l	0.99	100	93.0	90 - 110	Li	
9 Be	6	2	90.81 ug/l	2.21	100	90.8	90 - 110	Be	
11 B	6	2	191.60 ug/l	1.83	200	95.8	90 - 110	B	
23 Na	45	1	1281.00 ug/l	0.97	1250	102.5	90 - 110	Na	
24 Mg	45	1	2500.00 ug/l	0.79	2500	100.0	90 - 110	Mg	
27 Al	45	1	1169.00 ug/l	1.18	1250	93.5	90 - 110	Al	
28 Si	45	2	1248.00 ug/l	1.36	1250	99.8	90 - 110	Si	
29 Si	45	2	1244.00 ug/l	0.56	1250	99.5	90 - 110	Si	
31 P	45	1	1176.00 ug/l	1.26	1250	94.1	90 - 110	P	
34 S	45	1	18970.00 ug/l	0.73	20000	94.9	90 - 110	S	
34 S	45	2	20800.00 ug/l	1.69	20000	104.0	90 - 110	S	
39 K	45	1	1271.00 ug/l	0.94	1250	101.7	90 - 110	K	
44 Ca	45	2	2495.00 ug/l	1.11	2500	99.8	90 - 110	Ca	
47 Ti	72	2	100.60 ug/l	0.72	100	100.6	90 - 110	Ti	
51 V	72	1	100.50 ug/l	0.28	100	100.5	90 - 110	V	
52 Cr	72	1	98.18 ug/l	0.68	100	98.2	90 - 110	Cr	
55 Mn	72	1	92.52 ug/l	0.39	100	92.5	90 - 110	Mn	
57 Fe	72	1	2375.00 ug/l	0.61	2500	95.0	90 - 110	Fe	
59 Co	72	1	99.22 ug/l	2.04	100	99.2	90 - 110	Co	
60 Ni	72	1	96.65 ug/l	1.46	100	96.7	90 - 110	Ni	
63 Cu	72	1	97.73 ug/l	1.12	100	97.7	90 - 110	Cu	
66 Zn	72	1	94.51 ug/l	1.10	100	94.5	90 - 110	Zn	
75 As	72	1	98.36 ug/l	0.72	100	98.4	90 - 110	As	
78 Se	72	1	91.12 ug/l	1.60	100	91.1	90 - 110	Se	
88 Sr	72	2	101.40 ug/l	1.01	100	101.4	90 - 110	Sr	
89 Y	72	1	99.09 ug/l	1.57	100	99.1	90 - 110	Y	
90 Zr	72	1	100.40 ug/l	0.56	100	100.4	90 - 110	Zr	
93 Nb	72	1	49.57 ug/l	0.20	50	99.1	90 - 110	Nb	
95 Mo	72	2	98.03 ug/l	0.12	100	98.0	90 - 110	Mo	
101 Ru	72	1	101.70 ug/l	1.12	100	101.7	90 - 110	Ru	
103 Rh	72	1	101.50 ug/l	1.69	100	101.5	90 - 110	Rh	
105 Pd	72	1	10.09 ug/l	2.11	10	100.9	90 - 110	Pd	
107 Ag	115	2	19.45 ug/l	1.03	20	97.3	90 - 110	Ag	
111 Cd	115	2	95.56 ug/l	1.36	100	95.6	90 - 110	Cd	
118 Sn	115	2	103.90 ug/l	0.36	100	103.9	90 - 110	Sn	
121 Sb	165	2	50.15 ug/l	1.48	50	100.3	90 - 110	Sb	
125 Te	165	1	90.87 ug/l	2.82	100	90.9	90 - 110	Te	
133 Cs	165	1	95.88 ug/l	2.38	100	95.9	90 - 110	Cs	
137 Ba	165	2	97.24 ug/l	2.07	100	97.2	90 - 110	Ba	
139 La	165	1	100.80 ug/l	1.08	100	100.8	90 - 110	La	
140 Ce	165	1	100.10 ug/l	0.54	100	100.1	90 - 110	Ce	
141 Pr	165	1	97.84 ug/l	1.66	100	97.8	90 - 110	Pr	
146 Nd	165	1	96.06 ug/l	1.47	100	96.1	90 - 110	Nd	
147 Sm	165	2	96.02 ug/l	1.73	100	96.0	90 - 110	Sm	
178 Hf	165	1	88.53 ug/l	0.90	100	88.5	90 - 110	Hf	Fail
181 Ta	165	1	100.70 ug/l	1.40	100	100.7	90 - 110	Ta	
182 W	197	1	99.84 ug/l	1.29	100	99.8	90 - 110	W	
195 Pt	197	1	9.83 ug/l	2.06	10	98.3	90 - 110	Pt	
205 Tl	197	2	101.90 ug/l	0.33	100	101.9	90 - 110	Tl	
206 (Pb)	197	2	103.40 ug/l	1.05	100	103.4	90 - 110	(Pb)	
207 (Pb)	197	2	101.80 ug/l	2.08	100	101.8	90 - 110	(Pb)	
208 Pb	197	2	102.70 ug/l	1.47	100	102.7	90 - 110	Pb	
209 Bi	197	1	101.60 ug/l	0.55	100	101.6	90 - 110	Bi	
232 Th	197	2	91.55 ug/l	1.60	100	91.6	90 - 110	Th	
238 U	197	2	100.80 ug/l	1.78	100	100.8	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7045983	1.21	5986087	117.7	70 - 140	Li	
45 Sc	1	487510	0.27	509565	95.7	70 - 140	Sc	
45 Sc	2	7541468	1.81	6903232	109.2	70 - 140	Sc	
72 Ge	1	297110	0.98	275046	108.0	70 - 140	Ge	
72 Ge	2	1521964	0.40	1427904	106.6	70 - 140	Ge	
115 In	2	9106477	0.94	8556655	106.4	70 - 140	In	
165 Ho	1	6743751	0.27	6247878	107.9	70 - 140	Ho	
165 Ho	2	12088414	1.14	11326620	106.7	70 - 140	Ho	
197 Au	1	2292001	0.95	2087035	109.8	70 - 140	Au	
197 Au	2	2778232	1.73	2625939	105.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\088_CCB.D\088_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\088_CCB.D\088_CCB.D#
Date Acquired: Apr 13 2010 11:36 pm
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.244	ug/l	48.05	1.35	Li	
9 Be	6	2	-0.002	ug/l	206.47	0.23	Be	
11 B	6	2	6.062	ug/l	3.06	14.94	B	
23 Na	45	1	2.700	ug/l	5.84	10.60	Na	
24 Mg	45	1	0.563	ug/l	8.99	3.46	Mg	
27 Al	45	1	1.931	ug/l	7.18	8.94	Al	
28 Si	45	2	4.918	ug/l	12.78	35.60	Si	
29 Si	45	2	0.250	ug/l	290.56	35.60	Si	
31 P	45	1	1.598	ug/l	28.74	16.46	P	
34 S	45	1	252.200	ug/l	23.57	666.00	S	
34 S	45	2	311.900	ug/l	9.95	666.00	S	
39 K	45	1	3.751	ug/l	11.30	16.66	K	
44 Ca	45	2	-15.680	ug/l	1.73	97.40	Ca	
47 Ti	72	2	0.430	ug/l	13.95	1.15	Ti	
51 V	72	1	-0.319	ug/l	2.17	4.74	V	
52 Cr	72	1	-0.032	ug/l	17.39	6.52	Cr	
55 Mn	72	1	0.042	ug/l	2.75	0.47	Mn	
57 Fe	72	1	11.760	ug/l	20.21	40.70	Fe	
59 Co	72	1	0.005	ug/l	17.62	0.43	Co	
60 Ni	72	1	0.002	ug/l	187.98	0.46	Ni	
63 Cu	72	1	0.067	ug/l	12.93	0.19	Cu	
66 Zn	72	1	0.068	ug/l	13.90	7.48	Zn	
75 As	72	1	-0.037	ug/l	124.02	1.89	As	
78 Se	72	1	0.243	ug/l	15.43	0.62	Se	
88 Sr	72	2	0.003	ug/l	22.53	0.23	Sr	
89 Y	72	1	0.008	ug/l	16.63	0.42	Y	
90 Zr	72	1	0.049	ug/l	10.17	0.50	Zr	
93 Nb	72	1	0.704	ug/l	25.97	4.46	Nb	
95 Mo	72	2	0.199	ug/l	8.38	0.43	Mo	
101 Ru	72	1	0.010	ug/l	9.23	2.00	Ru	
103 Rh	72	1	0.006	ug/l	9.91	1.63	Rh	
105 Pd	72	1	0.001	ug/l	100.38	0.08	Pd	
107 Ag	115	2	0.002	ug/l	72.69	0.08	Ag	
111 Cd	115	2	0.006	ug/l	87.13	0.11	Cd	
118 Sn	115	2	1.860	ug/l	1.49	0.30	Sn	FAIL
121 Sb	165	2	0.165	ug/l	5.16	2.24	Sb	
125 Te	165	1	0.128	ug/l	55.60	1.07	Te	
133 Cs	165	1	0.041	ug/l	15.28	0.11	Cs	
137 Ba	165	2	0.036	ug/l	17.83	0.39	Ba	
139 La	165	1	0.007	ug/l	14.57	0.10	La	
140 Ce	165	1	0.008	ug/l	45.72	1.77	Ce	
141 Pr	165	1	0.006	ug/l	27.10	0.08	Pr	
146 Nd	165	1	0.007	ug/l	44.46	0.21	Nd	
147 Sm	165	2	0.000	ug/l	271.58	0.65	Sm	
178 Hf	165	1	0.011	ug/l	109.03	2.26	Hf	
181 Ta	165	1	-0.130	ug/l	46.78	1.46	Ta	
182 W	197	1	1.588	ug/l	16.92	1.68	W	
195 Pt	197	1	-0.001	ug/l	56.36	0.12	Pt	
205 Tl	197	2	0.522	ug/l	5.17	1.10	Tl	
206 (Pb)	197	2	0.135	ug/l	10.00	2.00	(Pb)	
207 (Pb)	197	2	0.138	ug/l	1.57	2.00	(Pb)	
208 Pb	197	2	0.136	ug/l	1.59	0.35	Pb	
209 Bi	197	1	0.021	ug/l	34.57	1.46	Bi	
232 Th	197	2	-0.864	ug/l	4.41	1.10	Th	
238 U	197	2	0.028	ug/l	3.67	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7056987	0.62	5986087	117.9	70 - 140	Li	
45 Sc	1	496095	0.85	509568	97.4	70 - 140	Sc	
45 Sc	2	7520992	0.74	6903232	108.9	70 - 140	Sc	
72 Ge	1	291500	0.81	275046	106.0	70 - 140	Ge	
72 Ge	2	1509545	0.88	1427904	105.7	70 - 140	Ge	
115 In	2	9157359	0.16	8556655	107.0	70 - 140	In	
165 Ho	1	6838138	1.02	6247878	109.4	70 - 140	Ho	
165 Ho	2	12019619	0.73	11326620	106.1	70 - 140	Ho	
197 Au	1	2273112	0.86	2087035	108.9	70 - 140	Au	
197 Au	2	2767532	0.70	2625939	105.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\089SMPL.D\089SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\089SMPL.D\089SMPL.D#
Date Acquired: Apr 13 2010 11:43 pm
Operator:
Sample Name: LWXPM
Misc Info:
Vial Number: 4109
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	54.54 ug/l	0.00	1.15	1000	Li	
9	Be	6		2	1.81 ug/l	0.00	1.38	1000	Be	
11	B	6		2	101.40 ug/l	0.00	1.26	2000	B	
23	Na	45		1	2128.00 ug/l	0.00	1.07	200000	Na	
24	Mg	45		1	33200.00 ug/l	0.00	1.05	200000	Mg	
27	Al	45		1	30600.00 ug/l	0.00	0.56	200000	Al	
28	Si	45		2	5351.00 ug/l	0.00	6.20	200000	Si	
29	Si	45		2	5009.00 ug/l	0.00	4.80	200000	Si	
31	P	45		1	3998.00 ug/l	0.00	0.42	200000	P	
34	S	45		1	10600.00 ug/l	0.00	2.45	200000	S	
34	S	45		2	12280.00 ug/l	0.00	0.72	200000	S	
39	K	45		1	5888.00 ug/l	0.00	0.07	200000	K	
44	Ca	45		2	186800.00 ug/l	0.00	0.83	200000	Ca	
47	Ti	72		2	991.20 ug/l	0.00	10.94	5000	Ti	
51	V	72		1	80.20 ug/l	0.00	0.73	2000	V	
52	Cr	72		1	301.50 ug/l	0.00	0.66	2000	Cr	
55	Mn	72		1	2983.00 ug/l	0.00	0.76	5000	Mn	
57	Fe	72		1	351500.00 ug/l	0.00	0.21	200000	Fe	>LDR
59	Co	72		1	50.30 ug/l	0.00	0.43	2000	Co	
60	Ni	72		1	159.70 ug/l	0.00	0.43	2000	Ni	
63	Cu	72		1	491.90 ug/l	0.00	0.54	5000	Cu	
66	Zn	72		1	3771.00 ug/l	0.00	0.88	5000	Zn	
75	As	72		1	73.60 ug/l	0.00	0.50	2000	As	
78	Se	72		1	4.88 ug/l	0.00	2.81	2000	Se	
88	Sr	72		2	596.50 ug/l	0.00	0.67	5000	Sr	
89	Y	72		1	31.49 ug/l	0.00	0.76	2000	Y	
90	Zr	72		1	35.21 ug/l	0.00	0.79	2000	Zr	
93	Nb	72		1	4.32 ug/l	0.00	7.99	2000	Nb	
95	Mo	72		2	28.01 ug/l	0.00	0.88	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	220.14	2000	Ru	
103	Rh	72		1	0.19 ug/l	0.00	3.41	2000	Rh	
105	Pd	72		1	0.10 ug/l	0.00	2.34	2000	Pd	
107	Ag	115		2	5.15 ug/l	0.00	0.31	400	Ag	
111	Cd	115		2	19.27 ug/l	0.00	0.35	2000	Cd	
118	Sn	115		2	1420.00 ug/l	0.00	0.74	2000	Sn	
121	Sb	165		2	5.87 ug/l	0.00	1.61	1000	Sb	
125	Te	165		1	0.19 ug/l	0.00	37.50	2000	Te	
133	Cs	165		1	2.49 ug/l	0.00	2.43	2000	Cs	
137	Ba	165		2	1050.00 ug/l	0.00	1.31	5000	Ba	
139	La	165		1	35.92 ug/l	0.00	1.37	2000	La	
140	Ce	165		1	79.33 ug/l	0.00	0.98	2000	Ce	
141	Pr	165		1	9.99 ug/l	0.00	1.12	2000	Pr	
146	Nd	165		1	41.24 ug/l	0.00	1.58	2000	Nd	
147	Sm	165		2	8.70 ug/l	0.00	0.28	2000	Sm	
178	Hf	165		1	3.84 ug/l	0.00	0.20	2000	Hf	
181	Ta	165		1	0.19 ug/l	0.00	58.56	2000	Ta	
182	W	197		1	5.62 ug/l	0.00	3.65	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	6.96	2000	Pt	
205	Tl	197		2	0.99 ug/l	0.00	4.09	2000	Tl	
206	(Pb)	197		2	4309.00 ug/l	0.00	2.30	2000	(Pb)	
207	(Pb)	197		2	4122.00 ug/l	0.00	2.52	2000	(Pb)	
208	Pb	197		2	4245.00 ug/l	0.00	2.53	5000	Pb	
209	Bi	197		1	1.99 ug/l	0.00	2.28	2000	Bi	
232	Th	197		2	16.29 ug/l	0.00	4.18	2000	Th	
238	U	197		2	3.93 ug/l	0.00	1.63	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6565866	0.93	5986087	109.7	70 - 140	Li	
45	Sc	1	502349	0.62	509565	98.6	70 - 140	Sc	
45	Sc	2	7485608	1.03	6903232	108.4	70 - 140	Sc	
72	Ge	1	284774	0.63	275046	103.5	70 - 140	Ge	
72	Ge	2	1434652	0.07	1427906	100.5	70 - 140	Ge	
115	In	2	8142004	0.57	8556655	95.2	70 - 140	In	
165	Ho	1	6310724	0.80	6247878	101.0	70 - 140	Ho	
165	Ho	2	11464005	0.79	11326620	101.2	70 - 140	Ho	
197	Au	1	1894798	0.84	2087035	90.8	70 - 140	Au	
197	Au	2	2269334	1.22	2625939	86.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\090SMPL.D\090SMPL.D$

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\090SMPL.D\090SMPL.D$
Date Acquired: Apr 13 2010 11:50 pm
Operator:
Sample Name: LWXFMV
Misc Info:
Vial Number: 4110
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	11.22 ug/l	0.00	1.23	1000	Li	
9	Be	6	2	0.37 ug/l	0.00	3.74	1000	Be	
11	B	6	2	20.63 ug/l	0.00	2.71	2000	B	
23	Na	45	1	466.90 ug/l	0.00	2.00	200000	Na	
24	Mg	45	1	7174.00 ug/l	0.00	1.13	200000	Mg	
27	Al	45	1	6732.00 ug/l	0.00	1.78	200000	Al	
28	Si	45	2	1372.00 ug/l	0.00	16.81	200000	Si	
29	Si	45	2	1272.00 ug/l	0.00	16.68	200000	Si	
31	P	45	1	891.20 ug/l	0.00	2.04	200000	P	
34	S	45	1	2626.00 ug/l	0.00	5.87	200000	S	
34	S	45	2	2745.00 ug/l	0.00	0.74	200000	S	
39	K	45	1	1307.00 ug/l	0.00	2.65	200000	K	
44	Ca	45	2	39980.00 ug/l	0.00	0.44	200000	Ca	
47	Ti	72	2	243.40 ug/l	0.00	21.46	5000	Ti	
51	V	72	1	16.13 ug/l	0.00	0.83	2000	V	
52	Cr	72	1	65.61 ug/l	0.00	1.50	2000	Cr	
55	Mn	72	1	631.40 ug/l	0.00	1.59	5000	Mn	
57	Fe	72	1	74260.00 ug/l	0.00	0.89	200000	Fe	
59	Co	72	1	10.77 ug/l	0.00	0.67	2000	Co	
60	Ni	72	1	35.34 ug/l	0.00	1.21	2000	Ni	
63	Cu	72	1	112.20 ug/l	0.00	2.20	5000	Cu	
66	Zn	72	1	934.20 ug/l	0.00	0.83	5000	Zn	
75	As	72	1	16.15 ug/l	0.00	1.15	2000	As	
78	Se	72	1	1.07 ug/l	0.00	9.34	2000	Se	
88	Sr	72	2	126.30 ug/l	0.00	1.60	5000	Sr	
89	Y	72	1	6.59 ug/l	0.00	1.53	2000	Y	
90	Zr	72	1	6.50 ug/l	0.00	0.75	2000	Zr	
93	Nb	72	1	0.27 ug/l	0.00	26.52	2000	Nb	
95	Mo	72	2	5.77 ug/l	0.00	1.25	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	31.17	2000	Ru	
103	Rh	72	1	0.03 ug/l	0.00	5.20	2000	Rh	
105	Pd	72	1	0.02 ug/l	0.00	15.16	2000	Pd	
107	Ag	115	2	1.05 ug/l	0.00	2.39	400	Ag	
111	Cd	115	2	4.04 ug/l	0.00	3.04	2000	Cd	
118	Sn	115	2	266.00 ug/l	0.00	0.97	2000	Sn	
121	Sb	165	2	1.23 ug/l	0.00	0.57	1000	Sb	
125	Te	165	1	0.01 ug/l	0.00	322.38	2000	Te	
133	Cs	165	1	0.47 ug/l	0.00	1.82	2000	Cs	
137	Ba	165	2	222.00 ug/l	0.00	0.73	5000	Ba	
139	La	165	1	7.15 ug/l	0.00	0.52	2000	La	
140	Ce	165	1	15.69 ug/l	0.00	1.02	2000	Ce	
141	Pr	165	1	2.01 ug/l	0.00	1.65	2000	Pr	
146	Nd	165	1	8.12 ug/l	0.00	1.24	2000	Nd	
147	Sm	165	2	1.73 ug/l	0.00	1.72	2000	Sm	
178	Hf	165	1	0.12 ug/l	0.00	20.13	2000	Hf	
181	Ta	165	1	-0.55 ug/l	0.00	3.48	2000	Ta	
182	W	197	1	0.72 ug/l	0.00	9.02	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	10.67	2000	Pt	
205	Tl	197	2	0.19 ug/l	0.00	3.26	2000	Tl	
206	(Pb)	197	2	807.90 ug/l	0.00	0.74	2000	(Pb)	
207	(Pb)	197	2	779.00 ug/l	0.00	0.75	2000	(Pb)	
208	Pb	197	2	797.40 ug/l	0.00	1.17	5000	Pb	
209	Bi	197	1	0.36 ug/l	0.00	2.51	2000	Bi	
232	Th	197	2	0.52 ug/l	0.00	13.91	2000	Th	
238	U	197	2	0.69 ug/l	0.00	1.91	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6890311	0.80	5986087	115.1	70 - 140	Li	
45	Sc	1	491614	0.57	509565	96.5	70 - 140	Sc	
45	Sc	2	7403820	0.26	6903232	107.3	70 - 140	Sc	
72	Ge	1	283043	1.04	275046	102.9	70 - 140	Ge	
72	Ge	2	1444256	0.73	1427904	101.1	70 - 140	Ge	
115	In	2	8744331	1.21	8556655	102.2	70 - 140	In	
165	Ho	1	6653647	0.44	6247878	106.5	70 - 140	Ho	
165	Ho	2	11909334	0.05	11326620	105.1	70 - 140	Ho	
197	Au	1	2212057	0.29	2087035	105.9	70 - 140	Au	
197	Au	2	2668491	0.74	2625939	101.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\091SMPL.D\091SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\091SMPL.D\091SMPL.D#
Date Acquired: Apr 13 2010 11:57 pm
Operator:
Sample Name: LWIPMS
Misc Info:
Vial Number: 4111
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	585.00 ug/l	0.00	1.05	1000	Li	
9	Be	6		2	487.70 ug/l	0.00	0.83	1000	Be	
11	B	6		2	616.20 ug/l	0.00	0.94	2000	B	
23	Na	45		1	7051.00 ug/l	0.00	0.70	200000	Na	
24	Mg	45		1	31230.00 ug/l	0.00	1.27	200000	Mg	
27	Al	45		1	35820.00 ug/l	0.00	0.82	200000	Al	
28	Si	45		2	6787.00 ug/l	0.00	5.04	200000	Si	
29	Si	45		2	6698.00 ug/l	0.00	4.32	200000	Si	
31	P	45		1	3864.00 ug/l	0.00	1.14	200000	P	
34	S	45		1	15230.00 ug/l	0.00	0.50	200000	S	
34	S	45		2	17860.00 ug/l	0.00	1.43	200000	S	
39	K	45		1	11380.00 ug/l	0.00	0.59	200000	K	
44	Ca	45		2	194900.00 ug/l	0.00	0.60	200000	Ca	
47	Ti	72		2	1231.00 ug/l	0.00	5.92	5000	Ti	
51	V	72		1	523.20 ug/l	0.00	0.75	2000	V	
52	Cr	72		1	687.50 ug/l	0.00	1.16	2000	Cr	
55	Mn	72		1	5976.00 ug/l	0.00	2.12	5000	Mn	>LDR
57	Fe	72		1	788500.00 ug/l	0.00	1.82	200000	Fe	>LDR
59	Co	72		1	499.40 ug/l	0.00	1.19	2000	Co	
60	Ni	72		1	626.60 ug/l	0.00	1.60	2000	Ni	
63	Cu	72		1	1153.00 ug/l	0.00	1.12	5000	Cu	
66	Zn	72		1	2283.00 ug/l	0.00	1.10	5000	Zn	
75	As	72		1	566.40 ug/l	0.00	0.58	2000	As	
78	Se	72		1	323.30 ug/l	0.00	0.56	2000	Se	
88	Sr	72		2	1250.00 ug/l	0.00	0.89	5000	Sr	
89	Y	72		1	22.91 ug/l	0.00	0.71	2000	Y	
90	Zr	72		1	459.90 ug/l	0.00	1.06	2000	Zr	
93	Nb	72		1	102.00 ug/l	0.00	1.04	2000	Nb	
95	Mo	72		2	509.90 ug/l	0.00	0.87	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	107.20	2000	Ru	
103	Rh	72		1	0.14 ug/l	0.00	6.52	2000	Rh	
105	Pd	72		1	0.12 ug/l	0.00	7.45	2000	Pd	
107	Ag	115		2	50.73 ug/l	0.00	2.49	400	Ag	
111	Cd	115		2	496.90 ug/l	0.00	1.17	2000	Cd	
118	Sn	115		2	5141.00 ug/l	0.00	2.28	2000	Sn	>LDR
121	Sb	165		2	171.10 ug/l	0.00	0.28	1000	Sb	
125	Te	165		1	0.32 ug/l	0.00	12.18	2000	Te	
133	Cs	165		1	2.63 ug/l	0.00	2.88	2000	Cs	
137	Ba	165		2	1839.00 ug/l	0.00	0.51	5000	Ba	
139	La	165		1	29.77 ug/l	0.00	0.77	2000	La	
140	Ce	165		1	65.70 ug/l	0.00	0.30	2000	Ce	
141	Pr	165		1	8.27 ug/l	0.00	2.47	2000	Pr	
146	Nd	165		1	33.60 ug/l	0.00	0.88	2000	Nd	
147	Sm	165		2	516.30 ug/l	0.00	1.33	2000	Sm	
178	Hf	165		1	2.87 ug/l	0.00	6.89	2000	Hf	
181	Ta	165		1	0.24 ug/l	0.00	66.78	2000	Ta	
182	W	197		1	527.00 ug/l	0.00	0.28	2000	W	
195	Pt	197		1	0.04 ug/l	0.00	4.69	2000	Pt	
205	Tl	197		2	579.60 ug/l	0.00	1.13	2000	Tl	
206	(Pb)	197		2	3561.00 ug/l	0.00	1.07	2000	(Pb)	
207	(Pb)	197		2	3473.00 ug/l	0.00	1.38	2000	(Pb)	
208	Pb	197		2	3532.00 ug/l	0.00	1.25	5000	Pb	
209	Bi	197		1	521.20 ug/l	0.00	0.61	2000	Bi	
232	Th	197		2	580.10 ug/l	0.00	2.06	2000	Th	
238	U	197		2	601.80 ug/l	0.00	0.74	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5859288	1.25	5986087	97.9	70 - 140	Li	
45	Sc	1	491130	0.62	509565	96.4	70 - 140	Sc	
45	Sc	2	7011219	0.73	6903232	101.6	70 - 140	Sc	
72	Ge	1	308343	0.96	275046	112.1	70 - 140	Ge	
72	Ge	2	1486853	0.60	1427904	104.1	70 - 140	Ge	
115	In	2	7659803	1.15	8556655	89.5	70 - 140	In	
165	Ho	1	5801814	0.61	6247878	92.9	70 - 140	Ho	
165	Ho	2	10584879	0.41	11326520	93.5	70 - 140	Ho	
197	Au	1	1672189	0.51	2087035	80.1	70 - 140	Au	
197	Au	2	2032961	0.85	2625939	77.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\092SMPL.D\092SMPL.D#
Date Acquired: Apr 14 2010 12:04 am
Operator:
Sample Name: LWXPMD
Misc Info:
Vial Number: 4112
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements#

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	584.40 ug/l	0.00	1.47	1000	Li	
9 Be	6		2	476.40 ug/l	0.00	1.62	1000	Be	
11 B	6		2	609.70 ug/l	0.00	2.56	2000	B	
23 Na	45		1	7081.00 ug/l	0.00	0.82	200000	Na	
24 Mg	45		1	42190.00 ug/l	0.00	1.33	200000	Mg	
27 Al	45		1	59200.00 ug/l	0.00	1.07	200000	Al	
28 Si	45		2	6460.00 ug/l	0.00	1.64	200000	Si	
29 Si	45		2	6392.00 ug/l	0.00	2.71	200000	Si	
31 P	45		1	4173.00 ug/l	0.00	1.38	200000	P	
34 S	45		1	23490.00 ug/l	0.00	2.95	200000	S	
34 S	45		2	26060.00 ug/l	0.00	1.63	200000	S	
39 K	45		1	13040.00 ug/l	0.00	1.83	200000	K	
44 Ca	45		2	211200.00 ug/l	0.00	0.63	200000	Ca	>LDR
47 Ti	72		2	1305.00 ug/l	0.00	2.92	5000	Ti	
51 V	72		1	580.30 ug/l	0.00	1.80	2000	V	
52 Cr	72		1	698.60 ug/l	0.00	1.04	2000	Cr	
55 Mn	72		1	4051.00 ug/l	0.00	1.26	5000	Mn	
57 Fe	72		1	337500.00 ug/l	0.00	1.02	200000	Fe	>LDR
59 Co	72		1	504.20 ug/l	0.00	0.34	2000	Co	
60 Ni	72		1	874.50 ug/l	0.00	1.04	2000	Ni	
63 Cu	72		1	855.20 ug/l	0.00	0.99	5000	Cu	
66 Zn	72		1	3529.00 ug/l	0.00	0.89	5000	Zn	
75 As	72		1	553.50 ug/l	0.00	0.10	2000	As	
78 Se	72		1	418.00 ug/l	0.00	0.57	2000	Se	
88 Sr	72		2	1259.00 ug/l	0.00	0.71	5000	Sr	
89 Y	72		1	44.62 ug/l	0.00	0.76	2000	Y	
90 Zr	72		1	502.90 ug/l	0.00	0.86	2000	Zr	
93 Nb	72		1	118.30 ug/l	0.00	1.25	2000	Nb	
95 Mo	72		2	516.00 ug/l	0.00	0.43	2000	Mo	
101 Ru	72		1	0.00 ug/l	0.00	41.09	2000	Ru	
103 Rh	72		1	0.16 ug/l	0.00	4.32	2000	Rh	
105 Pd	72		1	0.16 ug/l	0.00	4.60	2000	Pd	
107 Ag	115		2	48.93 ug/l	0.00	2.19	400	Ag	
111 Cd	115		2	483.00 ug/l	0.00	1.62	2000	Cd	
118 Sn	115		2	1534.00 ug/l	0.00	0.38	2000	Sn	
121 Sb	165		2	142.40 ug/l	0.00	0.87	1000	Sb	
125 Te	165		1	0.26 ug/l	0.00	17.72	2000	Te	
133 Cs	165		1	3.26 ug/l	0.00	1.17	2000	Cs	
137 Ba	165		2	2316.00 ug/l	0.00	0.71	5000	Ba	
139 La	165		1	53.79 ug/l	0.00	7.50	2000	La	
140 Ce	165		1	115.40 ug/l	0.00	5.09	2000	Ce	
141 Pr	165		1	13.35 ug/l	0.00	0.54	2000	Pr	
146 Nd	165		1	54.74 ug/l	0.00	0.06	2000	Nd	
147 Sm	165		2	505.20 ug/l	0.00	0.49	2000	Sm	
178 Hf	165		1	2.20 ug/l	0.00	6.05	2000	Hf	
181 Ta	165		1	0.15 ug/l	0.00	91.03	2000	Ta	
182 W	197		1	519.20 ug/l	0.00	0.93	2000	W	
195 Pt	197		1	0.02 ug/l	0.00	5.35	2000	Pt	
205 Tl	197		2	563.70 ug/l	0.00	1.71	2000	Tl	
206 (Pb)	197		2	3551.00 ug/l	0.00	1.49	2000	(Pb)	
207 (Pb)	197		2	3445.00 ug/l	0.00	1.72	2000	(Pb)	
208 Pb	197		2	3533.00 ug/l	0.00	1.35	5000	Pb	
209 Bi	197		1	521.10 ug/l	0.00	0.20	2000	Bi	
232 Th	197		2	575.30 ug/l	0.00	1.45	2000	Th	
238 U	197		2	612.60 ug/l	0.00	0.74	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	5924831	1.53	5986087	99.0	70 - 140	Li	
45 Sc	1	495911	1.10	509565	97.3	70 - 140	Sc	
45 Sc	2	7307394	0.23	6903232	105.9	70 - 140	Sc	
72 Ge	1	280405	0.81	275046	101.9	70 - 140	Ge	
72 Ge	2	1415714	0.33	1427904	99.1	70 - 140	Ge	
115 In	2	8051191	0.97	8556655	94.1	70 - 140	In	
165 Ho	1	6049634	0.28	6247878	96.8	70 - 140	Ho	
165 Ho	2	11106839	0.38	11326620	98.1	70 - 140	Ho	
197 Au	1	1756719	0.19	2087035	86.1	70 - 140	Au	
197 Au	2	2244454	1.05	2625939	85.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\093SMPL.D\093SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\093SMPL.D\093SMPL.D#
Date Acquired: Apr 14 2010 12:11 am
Operator:
Sample Name: LNXFMA
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	98.56 ug/l	0.00	0.48	1000	Li	
9	Be	6		2	6.08 ug/l	0.00	1.17	1000	Be	
11	B	6		2	543.00 ug/l	0.00	0.15	2000	B	
23	Na	45		1	2484.00 ug/l	0.00	0.75	200000	Na	
24	Mg	45		1	32630.00 ug/l	0.00	1.74	200000	Mg	
27	Al	45		1	30630.00 ug/l	0.00	1.45	200000	Al	
28	Si	45		2	8912.00 ug/l	0.00	3.54	200000	Si	
29	Si	45		2	8997.00 ug/l	0.00	9.88	200000	Si	
31	P	45		1	4310.00 ug/l	0.00	0.52	200000	P	
34	S	45		1	10200.00 ug/l	0.00	3.40	200000	S	
34	S	45		2	12000.00 ug/l	0.00	1.79	200000	S	
39	K	45		1	6789.00 ug/l	0.00	1.89	200000	K	
44	Ca	45		2	181700.00 ug/l	0.00	0.89	200000	Ca	
47	Ti	72		2	1190.00 ug/l	0.00	5.34	5000	Ti	
51	V	72		1	170.30 ug/l	0.00	1.00	2000	V	
52	Cr	72		1	378.40 ug/l	0.00	0.98	2000	Cr	
55	Mn	72		1	2877.00 ug/l	0.00	1.21	5000	Mn	
57	Fe	72		1	337500.00 ug/l	0.00	1.73	200000	Fe	>LDR
59	Co	72		1	66.32 ug/l	0.00	1.35	2000	Co	
60	Ni	72		1	195.80 ug/l	0.00	1.21	2000	Ni	
63	Cu	72		1	475.10 ug/l	0.00	2.40	5000	Cu	
66	Zn	72		1	3641.00 ug/l	0.00	1.56	5000	Zn	
75	As	72		1	160.10 ug/l	0.00	0.54	2000	As	
78	Se	72		1	44.09 ug/l	0.00	1.12	2000	Se	
88	Sr	72		2	632.90 ug/l	0.00	0.91	5000	Sr	
89	Y	72		1	38.52 ug/l	0.00	1.49	2000	Y	
90	Zr	72		1	88.56 ug/l	0.00	0.65	2000	Zr	
93	Nb	72		1	3.32 ug/l	0.00	4.09	2000	Nb	
95	Mo	72		2	74.65 ug/l	0.00	1.73	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	705.50	2000	Ru	
103	Rh	72		1	0.17 ug/l	0.00	1.46	2000	Rh	
105	Pd	72		1	0.10 ug/l	0.00	15.79	2000	Pd	
107	Ag	115		2	22.46 ug/l	0.00	1.61	400	Ag	
111	Cd	115		2	22.79 ug/l	0.00	0.99	2000	Cd	
118	Sn	115		2	1390.00 ug/l	0.00	1.30	2000	Sn	
121	Sb	165		2	51.22 ug/l	0.00	1.15	1000	Sb	
125	Te	165		1	0.16 ug/l	0.00	43.93	2000	Te	
133	Cs	165		1	2.49 ug/l	0.00	1.01	2000	Cs	
137	Ba	165		2	1046.00 ug/l	0.00	1.46	5000	Ba	
139	La	165		1	34.62 ug/l	0.00	1.01	2000	La	
140	Ce	165		1	75.48 ug/l	0.00	1.00	2000	Ce	
141	Pr	165		1	9.56 ug/l	0.00	1.02	2000	Pr	
146	Nd	165		1	39.55 ug/l	0.00	1.21	2000	Nd	
147	Sm	165		2	100.20 ug/l	0.00	1.28	2000	Sm	
178	Hf	165		1	1.07 ug/l	0.00	6.82	2000	Hf	
181	Ta	165		1	-0.07 ug/l	0.00	171.42	2000	Ta	
182	W	197		1	64.07 ug/l	0.00	0.28	2000	W	
195	Pt	197		1	0.02 ug/l	0.00	11.44	2000	Pt	
205	Tl	197		2	23.77 ug/l	0.00	1.65	2000	Tl	
206	(Pb)	197		2	4146.00 ug/l	0.00	2.08	2000	(Pb)	
207	(Pb)	197		2	4019.00 ug/l	0.00	1.55	2000	(Pb)	
208	Pb	197		2	4102.00 ug/l	0.00	1.31	5000	Pb	
209	Bi	197		1	2.03 ug/l	0.00	1.86	2000	Bi	
232	Th	197		2	36.88 ug/l	0.00	1.45	2000	Th	
238	U	197		2	14.91 ug/l	0.00	1.76	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6336127	0.60	5986087	105.8	70 - 140	Li	
45	Sc	1	480043	0.41	509565	94.2	70 - 140	Sc	
45	Sc	2	7320189	0.50	6903232	106.0	70 - 140	Sc	
72	Ge	1	277658	1.06	275046	100.9	70 - 140	Ge	
72	Ge	2	1430656	1.04	1427904	100.3	70 - 140	Ge	
115	In	2	8225625	0.85	8556655	96.1	70 - 140	In	
165	Ho	1	6235546	0.72	6247878	99.8	70 - 140	Ho	
165	Ho	2	11474454	1.32	11326620	101.3	70 - 140	Ho	
197	Au	1	1859526	0.08	2087035	89.1	70 - 140	Au	
197	Au	2	2337227	1.28	2625939	89.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\094SMPL.D\094SMPL.D$

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\094SMPL.D\094SMPL.D$
Date Acquired: Apr 14 2010 12:18 am
Operator:
Sample Name: LMXFW
Misc Info:
Vial Number: 4202
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	97.84 ug/l	0.00	0.52	1000	Li	
9	Be	6		2	2.61 ug/l	0.00	1.65	1000	Be	
11	B	6		2	49.55 ug/l	0.00	0.25	2000	B	
23	Na	45		1	1018.00 ug/l	0.00	3.86	200000	Na	
24	Mg	45		1	71870.00 ug/l	0.00	1.05	200000	Mg	
27	Al	45		1	48720.00 ug/l	0.00	1.56	200000	Al	
28	Si	45		2	10520.00 ug/l	0.00	5.90	200000	Si	
29	Si	45		2	10670.00 ug/l	0.00	4.32	200000	Si	
31	P	45		1	2571.00 ug/l	0.00	0.95	200000	P	
34	S	45		1	643.30 ug/l	0.00	13.87	200000	S	
34	S	45		2	525.90 ug/l	0.00	2.00	200000	S	
39	K	45		1	8899.00 ug/l	0.00	0.57	200000	K	
44	Ca	45		2	234900.00 ug/l	0.00	0.57	200000	Ca	>LDR
47	Ti	72		2	808.10 ug/l	0.00	3.46	5000	Ti	
51	V	72		1	121.00 ug/l	0.00	1.03	2000	V	
52	Cr	72		1	88.48 ug/l	0.00	0.31	2000	Cr	
55	Mn	72		1	3418.00 ug/l	0.00	0.50	5000	Mn	
57	Fe	72		1	94690.00 ug/l	0.00	0.50	200000	Fe	
59	Co	72		1	54.97 ug/l	0.00	0.27	2000	Co	
60	Ni	72		1	96.60 ug/l	0.00	0.73	2000	Ni	
63	Cu	72		1	118.20 ug/l	0.00	0.93	5000	Cu	
66	Zn	72		1	407.60 ug/l	0.00	0.72	5000	Zn	
75	As	72		1	18.21 ug/l	0.00	0.17	2000	As	
78	Se	72		1	6.41 ug/l	0.00	0.91	2000	Se	
88	Sr	72		2	465.50 ug/l	0.00	2.36	5000	Sr	
89	Y	72		1	63.43 ug/l	0.00	0.28	2000	Y	
90	Zr	72		1	47.05 ug/l	0.00	1.35	2000	Zr	
93	Nb	72		1	1.85 ug/l	0.00	8.36	2000	Nb	
95	Mo	72		2	3.17 ug/l	0.00	1.85	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	212.88	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	19.16	2000	Rh	
105	Pd	72		1	0.15 ug/l	0.00	5.18	2000	Pd	
107	Ag	115		2	0.53 ug/l	0.00	0.78	400	Ag	
111	Cd	115		2	2.39 ug/l	0.00	0.37	2000	Cd	
118	Sn	115		2	17.72 ug/l	0.00	0.54	2000	Sn	
121	Sb	165		2	0.52 ug/l	0.00	2.06	1000	Sb	
125	Te	165		1	0.09 ug/l	0.00	39.00	2000	Te	
133	Cs	165		1	4.10 ug/l	0.00	2.09	2000	Cs	
137	Ba	165		2	560.60 ug/l	0.00	1.66	5000	Ba	
139	La	165		1	62.69 ug/l	0.00	1.68	2000	La	
140	Ce	165		1	147.90 ug/l	0.00	1.03	2000	Ce	
141	Pr	165		1	19.79 ug/l	0.00	1.17	2000	Pr	
146	Nd	165		1	86.16 ug/l	0.00	0.79	2000	Nd	
147	Sm	165		2	19.00 ug/l	0.00	0.53	2000	Sm	
178	Hf	165		1	0.76 ug/l	0.00	0.59	2000	Hf	
181	Ta	165		1	-0.50 ug/l	0.00	7.75	2000	Ta	
182	W	197		1	1.61 ug/l	0.00	14.75	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	20.18	2000	Pt	
205	Tl	197		2	1.57 ug/l	0.00	2.20	2000	Tl	
206	(Pb)	197		2	121.90 ug/l	0.00	1.33	2000	(Pb)	
207	(Pb)	197		2	115.80 ug/l	0.00	1.18	2000	(Pb)	
208	Pb	197		2	120.60 ug/l	0.00	0.94	5000	Pb	
209	Bi	197		1	0.71 ug/l	0.00	1.14	2000	Bi	
232	Th	197		2	18.99 ug/l	0.00	2.28	2000	Th	
238	U	197		2	3.53 ug/l	0.00	2.46	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6431272	1.51	5986087	107.4	70 - 140	Li	
45	Sc	1	492555	0.49	509565	96.7	70 - 140	Sc	
45	Sc	2	7535772	0.51	6903232	109.2	70 - 140	Sc	
72	Ge	1	259004	0.15	275046	94.2	70 - 140	Ge	
72	Ge	2	1352018	1.95	1427904	94.7	70 - 140	Ge	
115	In	2	8116869	0.58	8556655	94.9	70 - 140	In	
165	Ho	1	6259052	1.07	6247878	100.2	70 - 140	Ho	
165	Ho	2	11483911	0.99	11326620	101.4	70 - 140	Ho	
197	Au	1	1912477	0.32	2087035	91.6	70 - 140	Au	
197	Au	2	2404169	1.46	2625939	91.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D$

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\095_CCV.D\095_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\095_CCV.D\095_CCV.D#
Date Acquired: Apr 14 2010 12:25 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	93.29	ug/l	0.61	100	93.3	90 - 110	Li	
9 Be	6	2	89.66	ug/l	2.21	100	89.7	90 - 110	Be	Fail
11 B	6	2	192.30	ug/l	1.31	200	96.2	90 - 110	B	
23 Na	45	1	1277.00	ug/l	0.77	1250	102.2	90 - 110	Na	
24 Mg	45	1	2482.00	ug/l	0.51	2500	99.3	90 - 110	Mg	
27 Al	45	1	1160.00	ug/l	0.19	1250	92.8	90 - 110	Al	
28 Si	45	2	1232.00	ug/l	1.43	1250	98.6	90 - 110	Si	
29 Si	45	2	1230.00	ug/l	1.08	1250	98.4	90 - 110	Si	
31 P	45	1	1157.00	ug/l	0.86	1250	92.6	90 - 110	P	
34 S	45	1	18680.00	ug/l	1.34	20000	93.4	90 - 110	S	
34 S	45	2	20380.00	ug/l	0.55	20000	101.9	90 - 110	S	
39 K	45	1	1256.00	ug/l	0.29	1250	100.5	90 - 110	K	
44 Ca	45	2	2488.00	ug/l	1.16	2500	99.5	90 - 110	Ca	
47 Ti	72	2	98.99	ug/l	1.23	100	99.0	90 - 110	Ti	
51 V	72	1	99.30	ug/l	1.55	100	99.3	90 - 110	V	
52 Cr	72	1	96.91	ug/l	0.89	100	96.9	90 - 110	Cr	
55 Mn	72	1	92.00	ug/l	0.63	100	92.0	90 - 110	Mn	
57 Fe	72	1	2366.00	ug/l	0.79	2500	94.6	90 - 110	Fe	
59 Co	72	1	98.47	ug/l	1.52	100	98.5	90 - 110	Co	
60 Ni	72	1	96.22	ug/l	0.76	100	96.2	90 - 110	Ni	
63 Cu	72	1	97.05	ug/l	0.40	100	97.1	90 - 110	Cu	
66 Zn	72	1	94.48	ug/l	0.79	100	94.5	90 - 110	Zn	
75 As	72	1	97.29	ug/l	1.45	100	97.3	90 - 110	As	
78 Se	72	1	90.93	ug/l	0.79	100	90.9	90 - 110	Se	
88 Sr	72	2	101.00	ug/l	1.25	100	101.0	90 - 110	Sr	
89 Y	72	1	99.01	ug/l	1.72	100	99.0	90 - 110	Y	
90 Zr	72	1	98.30	ug/l	1.19	100	98.3	90 - 110	Zr	
93 Nb	72	1	48.58	ug/l	0.31	50	97.2	90 - 110	Nb	
95 Mo	72	2	,96.75	ug/l	0.69	100	96.8	90 - 110	Mo	
101 Ru	72	1	101.60	ug/l	1.37	100	101.6	90 - 110	Ru	
103 Rh	72	1	101.90	ug/l	0.59	100	101.9	90 - 110	Rh	
105 Pd	72	1	10.10	ug/l	0.98	10	101.0	90 - 110	Pd	
107 Ag	115	2	19.13	ug/l	1.32	20	95.7	90 - 110	Ag	
111 Cd	115	2	95.17	ug/l	0.67	100	95.2	90 - 110	Cd	
118 Sn	115	2	101.70	ug/l	2.36	100	101.7	90 - 110	Sn	
121 Sb	165	2	49.24	ug/l	1.26	50	98.5	90 - 110	Sb	
125 Te	165	1	88.83	ug/l	0.66	100	88.8	90 - 110	Te	Fail
133 Cs	165	1	93.42	ug/l	0.66	100	93.4	90 - 110	Cs	
137 Ba	165	2	96.48	ug/l	1.26	100	96.5	90 - 110	Ba	
139 La	165	1	98.17	ug/l	1.28	100	98.2	90 - 110	La	
140 Ce	165	1	97.00	ug/l	1.30	100	97.0	90 - 110	Ce	
141 Pr	165	1	95.17	ug/l	1.40	100	95.2	90 - 110	Pr	
146 Nd	165	1	93.44	ug/l	0.53	100	93.4	90 - 110	Nd	
147 Sm	165	2	97.09	ug/l	1.15	100	97.1	90 - 110	Sm	
178 Hf	165	1	88.38	ug/l	0.25	100	88.4	90 - 110	Hf	Fail
181 Ta	165	1	98.22	ug/l	1.28	100	98.2	90 - 110	Ta	
182 W	197	1	98.01	ug/l	1.84	100	98.0	90 - 110	W	
195 Pt	197	1	9.83	ug/l	1.51	10	98.3	90 - 110	Pt	
205 Tl	197	2	102.20	ug/l	0.64	100	102.2	90 - 110	Tl	
206 (Pb)	197	2	103.10	ug/l	1.67	100	103.1	90 - 110	(Pb)	
207 (Pb)	197	2	102.60	ug/l	2.43	100	102.6	90 - 110	(Pb)	
208 Pb	197	2	103.80	ug/l	2.48	100	103.8	90 - 110	Pb	
209 Bi	197	1	102.00	ug/l	1.12	100	102.0	90 - 110	Bi	
232 Th	197	2	92.83	ug/l	2.53	100	92.8	90 - 110	Th	
238 U	197	2	103.40	ug/l	1.80	100	103.4	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6905162	0.73	5986087	115.4	70 - 140	Li	
45 Sc	1	477168	0.52	509565	93.6	70 - 140	Sc	
45 Sc	2	7413080	1.64	6903232	107.4	70 - 140	Sc	
72 Ge	1	290293	1.21	275046	105.5	70 - 140	Ge	
72 Ge	2	1511925	0.98	1427904	105.9	70 - 140	Ge	
115 In	2	9147112	1.63	8556655	106.9	70 - 140	In	
165 Ho	1	6848009	0.74	6247878	109.6	70 - 140	Ho	
165 Ho	2	12227011	0.43	11326620	107.9	70 - 140	Ho	
197 Au	1	2291822	0.80	2087035	109.8	70 - 140	Au	
197 Au	2	2800961	1.03	2625939	106.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

3 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\096_CCB.D\096_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\096_CCB.D\096_CCB.D#
Date Acquired: Apr 14 2010 12:32 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.389	ug/l	15.62	1.35	Li	
9 Be	6	2	0.006	ug/l	12.54	0.23	Be	
11 B	6	2	9.097	ug/l	2.67	14.94	B	
23 Na	45	1	4.259	ug/l	7.27	10.60	Na	
24 Mg	45	1	0.633	ug/l	27.92	3.46	Mg	
27 Al	45	1	2.179	ug/l	5.77	8.94	Al	
28 Si	45	2	8.348	ug/l	11.63	35.60	Si	
29 Si	45	2	2.801	ug/l	32.46	35.60	Si	
31 P	45	1	0.169	ug/l	317.20	16.46	P	
34 S	45	1	229.500	ug/l	36.55	666.00	S	
34 S	45	2	270.900	ug/l	11.67	666.00	S	
39 K	45	1	2.387	ug/l	15.72	16.66	K	
44 Ca	45	2	-17.870	ug/l	0.45	97.40	Ca	
47 Ti	72	2	0.529	ug/l	10.43	1.15	Ti	
51 V	72	1	-0.441	ug/l	0.46	4.74	V	
52 Cr	72	1	-0.046	ug/l	9.70	6.52	Cr	
55 Mn	72	1	0.064	ug/l	8.29	0.47	Mn	
57 Fe	72	1	11.660	ug/l	20.37	40.70	Fe	
59 Co	72	1	0.004	ug/l	28.21	0.43	Co	
60 Ni	72	1	0.011	ug/l	44.21	0.46	Ni	
63 Cu	72	1	0.068	ug/l	6.40	0.19	Cu	
66 Zn	72	1	0.160	ug/l	5.52	7.48	Zn	
75 As	72	1	-0.086	ug/l	21.30	1.89	As	
78 Se	72	1	0.231	ug/l	19.50	0.62	Se	
88 Sr	72	2	0.005	ug/l	10.51	0.23	Sr	
89 Y	72	1	0.005	ug/l	27.25	0.42	Y	
90 Zr	72	1	0.055	ug/l	13.67	0.50	Zr	
93 Nb	72	1	0.454	ug/l	31.79	4.46	Nb	
95 Mo	72	2	0.188	ug/l	15.86	0.43	Mo	
101 Ru	72	1	0.010	ug/l	37.48	2.00	Ru	
103 Rh	72	1	0.005	ug/l	13.17	1.63	Rh	
105 Pd	72	1	0.000	ug/l	113.27	0.08	Pd	
107 Ag	115	2	0.003	ug/l	20.99	0.08	Ag	
111 Cd	115	2	-0.001	ug/l	110.37	0.11	Cd	
118 Sn	115	2	1.530	ug/l	2.98	0.30	Sn	FAIL
121 Sb	165	2	0.178	ug/l	3.85	2.24	Sb	
125 Te	165	1	0.180	ug/l	28.39	1.07	Te	
133 Cs	165	1	0.049	ug/l	11.10	0.11	Cs	
137 Ba	165	2	0.021	ug/l	16.30	0.39	Ba	
139 La	165	1	0.006	ug/l	52.74	0.10	La	
140 Ce	165	1	0.006	ug/l	33.51	1.77	Ce	
141 Pr	165	1	0.005	ug/l	7.98	0.08	Pr	
146 Nd	165	1	0.006	ug/l	45.82	0.21	Nd	
147 Sm	165	2	0.003	ug/l	74.31	0.65	Sm	
178 Hf	165	1	0.062	ug/l	18.60	2.26	Hf	
181 Ta	165	1	-0.033	ug/l	147.06	1.46	Ta	
182 W	197	1	1.573	ug/l	15.22	1.68	W	
195 Pt	197	1	-0.001	ug/l	162.32	0.12	Pt	
205 Tl	197	2	0.697	ug/l	3.88	1.10	Tl	
206 (Pb)	197	2	0.230	ug/l	3.41	2.00	(Pb)	
207 (Pb)	197	2	0.227	ug/l	8.05	2.00	(Pb)	
208 Pb	197	2	0.231	ug/l	2.09	0.35	Pb	
209 Bi	197	1	0.047	ug/l	2.96	1.46	Bi	
232 Th	197	2	-0.879	ug/l	5.65	1.10	Th	
238 U	197	2	0.026	ug/l	4.57	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7084553	0.40	5986087	118.4	70 - 140	Li	
45 Sc	1	484478	0.58	509568	95.1	70 - 140	Sc	
45 Sc	2	7410024	0.78	6903232	107.3	70 - 140	Sc	
72 Ge	1	285797	0.61	275046	103.9	70 - 140	Ge	
72 Ge	2	1494597	0.63	1427904	104.7	70 - 140	Ge	
115 In	2	9184128	1.46	8556655	107.3	70 - 140	In	
165 Ho	1	6710909	0.99	6247878	107.4	70 - 140	Ho	
165 Ho	2	12258140	1.25	11326620	108.2	70 - 140	Ho	
197 Au	1	2252708	0.56	2087035	107.9	70 - 140	Au	
197 Au	2	2813529	0.39	2625939	107.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\097BLNK.D\097BLNK.D#

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\097BLNK.D\097BLNK.D#
Date Acquired: Apr 14 2010 12:40 am
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 13 2010 01:53 pm
Sample Type: 6-Blank
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
7 Li	6	2	-0.430	ug/l	27.01	1.00	
9 Be	6	2	0.063	ug/l	11.44	1.00	
11 B	6	2	4.944	ug/l	2.05	1.00	Fail
23 Na	45	1	5.683	ug/l	3.17	1.00	Fail
24 Mg	45	1	8.954	ug/l	11.43	1.00	Fail
27 Al	45	1	18.090	ug/l	3.60	1.00	Fail
28 Si	45	2	7.636	ug/l	5.41	1.00	Fail
29 Si	45	2	1.296	ug/l	82.87	1.00	Fail
31 P	45	1	0.518	ug/l	78.99	1.00	
34 S	45	1	322.800	ug/l	17.48	1.00	Fail
34 S	45	2	310.400	ug/l	4.54	1.00	Fail
39 K	45	1	5.386	ug/l	12.08	1.00	Fail
44 Ca	45	2	10.170	ug/l	7.88	1.00	Fail
47 Ti	72	2	0.711	ug/l	1.68	1.00	
51 V	72	1	-0.326	ug/l	3.37	1.00	
52 Cr	72	1	0.053	ug/l	8.11	1.00	
55 Mn	72	1	1.018	ug/l	8.02	1.00	Fail
57 Fe	72	1	67.660	ug/l	8.81	1.00	Fail
59 Co	72	1	0.094	ug/l	7.15	1.00	
60 Ni	72	1	0.104	ug/l	10.75	1.00	
63 Cu	72	1	0.028	ug/l	104.05	1.00	
66 Zn	72	1	0.559	ug/l	7.33	1.00	
75 As	72	1	-0.052	ug/l	49.13	1.00	
78 Se	72	1	0.177	ug/l	10.19	1.00	
88 Sr	72	2	0.191	ug/l	3.59	1.00	
89 Y	72	1	0.057	ug/l	3.58	1.00	
90 Zr	72	1	0.008	ug/l	43.34	1.00	
93 Nb	72	1	0.031	ug/l	320.86	1.00	
95 Mo	72	2	0.123	ug/l	12.72	1.00	
101 Ru	72	1	0.020	ug/l	25.09	1.00	
103 Rh	72	1	0.018	ug/l	3.78	1.00	
105 Pd	72	1	0.001	ug/l	165.62	1.00	
107 Ag	115	2	0.013	ug/l	18.19	1.00	
111 Cd	115	2	0.074	ug/l	10.68	1.00	
118 Sn	115	2	1.207	ug/l	3.28	1.00	Fail
121 Sb	165	2	0.121	ug/l	1.56	1.00	
125 Te	165	1	0.002	ug/l	1416.60	1.00	
133 Cs	165	1	0.022	ug/l	5.88	1.00	
137 Ba	165	2	0.359	ug/l	2.42	1.00	
139 La	165	1	0.080	ug/l	5.41	1.00	
140 Ce	165	1	0.159	ug/l	1.74	1.00	
141 Pr	165	1	0.032	ug/l	1.13	1.00	
146 Nd	165	1	0.073	ug/l	9.79	1.00	
147 Sm	165	2	0.074	ug/l	10.12	1.00	
178 Hf	165	1	-0.083	ug/l	4.59	1.00	
181 Ta	165	1	-0.353	ug/l	10.59	1.00	
182 W	197	1	0.329	ug/l	32.71	1.00	
195 Pt	197	1	0.000	ug/l	1154.60	1.00	
205 Tl	197	2	0.331	ug/l	5.16	1.00	
206 (Pb)	197	2	0.580	ug/l	4.13	1.00	
207 (Pb)	197	2	0.570	ug/l	2.20	1.00	
208 Pb	197	2	0.574	ug/l	1.72	1.00	
209 Bi	197	1	0.099	ug/l	3.09	1.00	
232 Th	197	2	-1.547	ug/l	0.30	1.00	
238 U	197	2	0.067	ug/l	2.05	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2	7092939	0.70	5986087	118.5	70 - 140	
45 Sc	1	486547	1.13	509565	95.5	70 - 140	
45 Sc	2	7502515	0.76	6903232	108.7	70 - 140	
72 Ge	1	286374	1.41	275046	104.1	70 - 140	
72 Ge	2	1492257	1.38	1427904	104.5	70 - 140	
115 In	2	9054141	0.46	8556655	105.8	70 - 140	
165 Ho	1	6648623	1.76	6247878	106.4	70 - 140	
165 Ho	2	12300528	0.30	11326620	108.6	70 - 140	
197 Au	1	2237863	1.32	2087035	107.2	70 - 140	
197 Au	2	2787443	1.26	2625939	106.2	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\003CALB.D\003CALB.D#

13 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#
Date Acquired: Apr 14 2010 12:47 am
Acq. Method: 2010.M
Operator:
Sample Name: CAL BLK
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 13 2010 01:53 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	389531	0.30
9	Be	6	2	180	11.16
11	B	6	2	90890	2.69
23	Na	45	1	27070	1.87
24	Mg	45	1	413	10.21
27	Al	45	1	734	51.02
28	Si	45	2	201294	1.89
29	Si	45	2	29936	2.68
31	P	45	1	128	6.01
34	S	45	1	2703	1.05
34	S	45	2	313880	1.13
39	K	45	1	32987	0.77
44	Ca	45	2	18619	0.80
47	Ti	72	2	1253	2.90
51	V	72	1	2943	2.72
52	Cr	72	1	1072	4.57
55	Mn	72	1	378	7.32
57	Fe	72	1	981	12.82
59	Co	72	1	150	4.97
60	Ni	72	1	148	7.32
63	Cu	72	1	3439	3.56
66	Zn	72	1	1000	1.76
75	As	72	1	272	7.40
78	Se	72	1	79	3.56
88	Sr	72	2	622	5.11
89	Y	72	1	120	5.86
90	Zr	72	1	669	2.00
93	Nb	72	1	9180	17.07
95	Mo	72	2	907	2.54
101	Ru	72	1	76	43.88
103	Rh	72	1	298	5.39
105	Pd	72	1	13	25.31
107	Ag	115	2	219	15.59
111	Cd	115	2	59	18.44
118	Sn	115	2	16855	0.49
121	Sb	165	2	5090	3.19
125	Te	165	1	9	43.97
133	Cs	165	1	313	16.23
137	Ba	165	2	170	4.95
139	La	165	1	207	19.82
140	Ce	165	1	247	6.85
141	Pr	165	1	199	5.38
146	Nd	165	1	43	34.40
147	Sm	165	2	97	12.23
178	Hf	165	1	1037	1.49
181	Ta	165	1	23239	7.82
182	W	197	1	6674	15.94
195	Pt	197	1	22	52.73
205	Tl	197	2	12036	0.62
206	(Pb)	197	2	2777	2.35
207	(Pb)	197	2	2426	4.15
208	Pb	197	2	11180	0.91
209	Bi	197	1	1441	6.13
232	Th	197	2	28038	2.29
238	U	197	2	990	6.44

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	2	6939269	1.16
45	Sc	1	481965	1.01
45	Sc	2	7351212	0.45
72	Ge	1	284165	0.65
72	Ge	2	1476622	0.25
115	In	2	8960157	0.29
165	Ho	1	6560437	0.83
165	Ho	2	11869600	0.65
197	Au	1	2238589	0.52
197	Au	2	2712431	0.25

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

C:\ICPCHEM\1\DATA\041310A2.B\099CALS.D\099CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\099CALS.D\099CALS.D#
Date Acquired: Apr 14 2010 12:55 am
Acq. Method: 2010.M
Operator:
Sample Name: CAL 1
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 12:52 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	584891	1.08
9	Be	6	2	5228	0.45
11	B	6	2	426753	1.20
23	Na	45	1	101282	0.90
24	Mg	45	1	37683	1.49
27	Al	45	1	9674	1.73
28	Si	45	2	4283685	0.68
29	Si	45	2	246335	0.33
31	P	45	1	1227	3.93
34	S	45	1	9469	2.68
34	S	45	2	1026172	0.63
39	K	45	1	105199	0.46
44	Ca	45	2	126353	0.96
47	Ti	72	2	15928	0.26
51	V	72	1	70996	1.63
52	Cr	72	1	83060	1.33
55	Mn	72	1	11822	1.05
57	Fe	72	1	9171	1.83
59	Co	72	1	25340	1.09
60	Ni	72	1	16925	1.19
63	Cu	72	1	10785	1.83
66	Zn	72	1	8940	2.98
75	As	72	1	10425	0.56
78	Se	72	1	541	1.90
88	Sr	72	2	238746	1.09
89	Y	72	1	63745	0.62
90	Zr	72	1	44385	2.50
93	Nb	72	1	466064	1.03
95	Mo	72	2	42285	0.46
101	Ru	72	1	52738	1.06
103	Rh	72	1	296384	0.49
105	Pd	72	1	3138	3.29
107	Ag	115	2	47078	1.48
111	Cd	115	2	2605	5.13
118	Sn	115	2	48706	0.99
121	Sb	165	2	95581	0.40
125	Te	165	1	1870	2.26
133	Cs	165	1	1593	7.12
137	Ba	165	2	13759	3.28
139	La	165	1	55165	2.09
140	Ce	165	1	303725	0.96
141	Pr	165	1	63067	1.28
146	Nd	165	1	11583	2.31
147	Sm	165	2	106232	0.71
178	Hf	165	1	70213	3.40
181	Ta	165	1	373701	5.79
182	W	197	1	57752	1.85
195	Pt	197	1	8997	2.20
205	Tl	197	2	83359	0.22
206	(Pb)	197	2	41869	1.01
207	(Pb)	197	2	37249	1.70
208	Pb	197	2	169900	1.37
209	Bi	197	1	586402	0.79
232	Th	197	2	154800	2.04
238	U	197	2	55924	0.98

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	6973681	1.24	6939269	100.5	70 - 140	
45	Sc	1	478679	0.83	481965	99.3	70 - 140	
45	Sc	2	7319968	0.25	7351212	99.6	70 - 140	
72	Ge	1	286061	1.46	284165	100.7	70 - 140	
72	Ge	2	1485916	0.58	1476622	100.6	70 - 140	
115	In	2	9055967	1.18	8960157	101.1	70 - 140	
165	Ho	1	6635966	0.35	6560437	101.2	70 - 140	
165	Ho	2	11907411	0.42	11869600	100.3	70 - 140	
197	Au	1	2254436	0.43	2238589	100.7	70 - 140	
197	Au	2	2742092	0.26	2712431	101.1	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\100CALS.D\100CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\100CALS.D\100CALS.D#
Date Acquired: Apr 14 2010 01:02 am
Acq. Method: 2010.M
Operator:
Sample Name: CAL 2
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:00 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	4129530	0.23
9	Be	6	2	1053857	0.71
11	B	6	2	1541777	0.45
23	Na	45	1	1681811	1.88
24	Mg	45	1	1755267	1.11
27	Al	45	1	373918	0.34
28	Si	45	2	17316880	1.91
29	Si	45	2	974470	2.59
31	P	45	1	26341	1.65
34	S	45	1	29622	2.06
34	S	45	2	2834583	1.41
39	K	45	1	905657	0.49
44	Ca	45	2	2507415	0.49
47	Ti	72	2	289882	1.67
51	V	72	1	662805	1.01
52	Cr	72	1	780509	0.87
55	Mn	72	1	478346	1.59
57	Fe	72	1	402508	0.84
59	Co	72	1	1190417	2.17
60	Ni	72	1	320054	0.25
63	Cu	72	1	876131	1.10
66	Zn	72	1	147056	1.33
75	As	72	1	101391	1.37
78	Se	72	1	8912	1.54
88	Sr	72	2	4471329	1.33
89	Y	72	1	1257554	2.20
90	Zr	72	1	934265	3.39
93	Nb	72	1	825645	0.40
95	Mo	72	2	833453	1.71
101	Ru	72	1	507432	2.09
103	Rh	72	1	2795084	2.17
105	Pd	72	1	61317	2.05
107	Ag	115	2	457744	0.87
111	Cd	115	2	489324	1.61
118	Sn	115	2	1382062	1.74
121	Sb	165	2	897726	0.85
125	Te	165	1	18027	0.73
133	Cs	165	1	1363811	1.52
137	Ba	165	2	642698	1.41
139	La	165	1	2696705	2.57
140	Ce	165	1	2957874	2.92
141	Pr	165	1	3079179	2.76
146	Nd	165	1	566951	1.78
147	Sm	165	2	1067603	2.06
178	Hf	165	1	1142026	0.96
181	Ta	165	1	4239537	2.84
182	W	197	1	1107486	1.30
195	Pt	197	1	86011	1.62
205	Tl	197	2	3671628	1.17
206	(Pb)	197	2	1291255	1.76
207	(Pb)	197	2	1136166	1.13
208	Pb	197	2	5195460	1.83
209	Bi	197	1	2837497	1.18
232	Th	197	2	5185741	2.35
238	U	197	2	5421455	1.13

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	6929075	0.49	6939269	99.9	70 - 140	
45	Sc	1	469309	0.43	481965	97.4	70 - 140	
45	Sc	2	7348463	1.13	7351212	100.0	70 - 140	
72	Ge	1	286787	1.39	284165	100.9	70 - 140	
72	Ge	2	1483749	0.77	1476622	100.5	70 - 140	
115	In	2	8955337	0.16	8960157	99.9	70 - 140	
165	Ho	1	6636643	1.63	6560437	101.2	70 - 140	
165	Ho	2	11939541	0.97	11869600	100.6	70 - 140	
197	Au	1	2232239	1.88	2238589	99.7	70 - 140	
197	Au	2	2716909	1.57	2712431	100.2	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\101CALS.D\101CALS.D#

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\101CALS.D\101CALS.D#
Date Acquired: Apr 14 2010 01:09 am
Acq. Method: 2010.M
Operator:
Sample Name: CAL 3
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:07 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
7	Li	6	2	7883373	1.31
9	Be	6	2	2081065	0.19
11	B	6	2	2971423	0.19
23	Na	45	1	3297839	1.07
24	Mg	45	1	3416440	0.48
27	Al	45	1	734071	0.61
28	Si	45	2	36279112	1.23
29	Si	45	2	1885196	0.71
31	P	45	1	51925	0.47
34	S	45	1	55769	1.03
34	S	45	2	5092085	0.93
39	K	45	1	1779502	0.95
44	Ca	45	2	4854865	0.22
47	Ti	72	2	572103	0.89
51	V	72	1	1304463	1.33
52	Cr	72	1	1346307	1.27
55	Mn	72	1	955951	1.78
57	Fe	72	1	800606	1.76
59	Co	72	1	2371087	1.76
60	Ni	72	1	640051	1.55
63	Cu	72	1	1702761	1.78
66	Zn	72	1	298178	1.27
75	As	72	1	204941	1.61
78	Se	72	1	17962	2.01
88	Sr	72	2	8809736	1.21
89	Y	72	1	2481333	0.18
90	Zr	72	1	1898678	1.67
93	Nb	72	1	1586650	0.19
95	Mo	72	2	1670809	0.63
101	Ru	72	1	1006577	2.13
103	Rh	72	1	5462143	1.59
105	Pd	72	1	120766	0.01
107	Ag	115	2	892906	1.00
111	Cd	115	2	979204	1.08
118	Sn	115	2	2688823	0.68
121	Sb	165	2	1791728	1.20
125	Te	165	1	36085	2.99
133	Cs	165	1	2736837	1.75
137	Ba	165	2	1306231	0.56
139	La	165	1	5328750	1.15
140	Ce	165	1	5821251	0.89
141	Pr	165	1	6041911	1.01
146	Nd	165	1	1136209	1.24
147	Sm	165	2	2128762	1.43
178	Hf	165	1	2391416	1.20
181	Ta	165	1	9042628	1.99
182	W	197	1	2334860	0.48
195	Pt	197	1	172813	0.85
205	Tl	197	2	7358644	1.09
206	(Pb)	197	2	2587804	1.50
207	(Pb)	197	2	2308252	1.65
208	Pb	197	2	10400850	1.30
209	Bi	197	1	5511078	1.61
232	Th	197	2	11197440	1.95
238	U	197	2	10919130	1.20

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	2	6740290	0.68	6939269	97.1	70 - 140	
45	Sc	1	467968	0.53	481965	97.1	70 - 140	
45	Sc	2	7244287	0.37	7351212	98.5	70 - 140	
72	Ge	1	293910	1.75	284165	103.4	70 - 140	
72	Ge	2	1452538	0.60	1476622	98.4	70 - 140	
115	In	2	8869588	1.04	8960157	99.0	70 - 140	
165	Ho	1	6589393	1.49	6560437	100.4	70 - 140	
165	Ho	2	11912618	0.89	11869600	100.4	70 - 140	
197	Au	1	2208469	0.72	2238589	98.7	70 - 140	
197	Au	2	2712159	0.22	2712431	100.0	70 - 140	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

C:\ICPCHEM\1\DATA\041310A2.B\102_ICV.D\102_ICV.D$

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\102_ICV.D\102_ICV.D$
Date Acquired: Apr 14 2010 01:16 am
Operator:
Sample Name: ICV
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	98.54 ug/l	1.46	100	98.5	90 - 110	Li	
9 Be	6	2	95.57 ug/l	1.66	100	95.6	90 - 110	Be	
11 B	6	2	207.40 ug/l	3.08	200	103.7	90 - 110	B	
23 Na	45	1	422.80 ug/l	3.52	400	105.7	90 - 110	Na	
24 Mg	45	1	422.10 ug/l	3.91	400	105.5	90 - 110	Mg	
27 Al	45	1	412.80 ug/l	3.52	400	103.2	90 - 110	Al	
28 Si	45	2	470.30 ug/l	2.03	400	117.6	90 - 110	Si	Fail
29 Si	45	2	455.70 ug/l	1.05	400	113.9	90 - 110	Si	Fail
31 P	45	1	402.20 ug/l	2.77	400	100.6	90 - 110	P	
34 S	45	1	3931.00 ug/l	5.41	4000	98.3	90 - 110	S	
34 S	45	2	4512.00 ug/l	1.43	4000	112.8	90 - 110	S	Fail
39 K	45	1	415.20 ug/l	3.83	400	103.8	90 - 110	K	
44 Ca	45	2	411.80 ug/l	1.06	400	103.0	90 - 110	Ca	
47 Ti	72	2	97.80 ug/l	1.29	100	97.8	90 - 110	Ti	
51 V	72	1	104.20 ug/l	3.38	100	104.2	90 - 110	V	
52 Cr	72	1	104.50 ug/l	3.22	100	104.5	90 - 110	Cr	
55 Mn	72	1	102.90 ug/l	3.29	100	102.9	90 - 110	Mn	
57 Fe	72	1	425.70 ug/l	3.72	400	106.4	90 - 110	Fe	
59 Co	72	1	106.00 ug/l	2.42	100	106.0	90 - 110	Co	
60 Ni	72	1	103.00 ug/l	2.17	100	103.0	90 - 110	Ni	
63 Cu	72	1	106.20 ug/l	2.18	100	106.2	90 - 110	Cu	
66 Zn	72	1	104.40 ug/l	2.94	100	104.4	90 - 110	Zn	
75 As	72	1	100.40 ug/l	3.06	100	100.4	90 - 110	As	
78 Se	72	1	103.90 ug/l	3.04	100	103.9	90 - 110	Se	
88 Sr	72	2	100.90 ug/l	1.20	100	100.9	90 - 110	Sr	
89 Y	72	1	103.40 ug/l	3.03	100	103.4	90 - 110	Y	
90 Zr	72	1	95.51 ug/l	3.36	100	95.5	90 - 110	Zr	
93 Nb	72	1	26.97 ug/l	4.06	20	134.9	90 - 110	Nb	Fail
95 Mo	72	2	94.97 ug/l	1.73	100	95.0	90 - 110	Mo	
101 Ru	72	1	103.50 ug/l	3.11	100	103.5	90 - 110	Ru	
103 Rh	72	1	104.10 ug/l	4.18	100	104.1	90 - 110	Rh	
105 Pd	72	1	10.32 ug/l	3.61	10	103.2	90 - 110	Pd	
107 Ag	115	2	20.04 ug/l	0.28	20	100.2	90 - 110	Ag	
111 Cd	115	2	98.84 ug/l	0.79	100	98.8	90 - 110	Cd	
118 Sn	115	2	98.26 ug/l	1.67	100	98.3	90 - 110	Sn	
121 Sb	165	2	48.08 ug/l	0.70	50	96.2	90 - 110	Sb	
125 Te	165	1	96.94 ug/l	2.86	100	96.9	90 - 110	Te	
133 Cs	165	1	100.90 ug/l	2.11	100	100.9	90 - 110	Cs	
137 Ba	165	2	98.00 ug/l	0.76	100	98.0	90 - 110	Ba	
139 La	165	1	99.76 ug/l	2.48	100	99.8	90 - 110	La	
140 Ce	165	1	101.20 ug/l	2.86	100	101.2	90 - 110	Ce	
141 Pr	165	1	102.70 ug/l	2.55	100	102.7	90 - 110	Pr	
146 Nd	165	1	99.44 ug/l	2.46	100	99.4	90 - 110	Nd	
147 Sm	165	2	98.75 ug/l	1.27	100	98.8	90 - 110	Sm	
178 Hf	165	1	92.87 ug/l	3.50	100	92.9	90 - 110	Hf	
181 Ta	165	1	79.11 ug/l	3.06	100	79.1	90 - 110	Ta	Fail
182 W	197	1	94.05 ug/l	2.60	100	94.1	90 - 110	W	
195 Pt	197	1	9.92 ug/l	2.31	10	99.2	90 - 110	Pt	
205 Tl	197	2	105.00 ug/l	1.08	100	105.0	90 - 110	Tl	
206 (Pb)	197	2	104.50 ug/l	1.12	100	104.5	90 - 110	(Pb)	
207 (Pb)	197	2	96.15 ug/l	0.33	100	96.2	90 - 110	(Pb)	
208 Pb	197	2	100.40 ug/l	0.90	100	100.4	90 - 110	Pb	
209 Bi	197	1	100.50 ug/l	1.75	100	100.5	90 - 110	Bi	
232 Th	197	2	93.44 ug/l	1.60	100	93.4	90 - 110	Th	
238 U	197	2	99.45 ug/l	0.26	100	99.5	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6909795	0.89	6939269	99.6	70 - 140	Li	
45 Sc	1	461618	3.52	481965	95.8	70 - 140	Sc	
45 Sc	2	7170980	0.78	7351212	97.5	70 - 140	Sc	
72 Ge	1	283889	2.50	284165	99.9	70 - 140	Ge	
72 Ge	2	1486325	1.49	1476622	100.7	70 - 140	Ge	
115 In	2	8951670	0.85	8960157	99.9	70 - 140	In	
165 Ho	1	6534719	1.26	6560437	99.6	70 - 140	Ho	
165 Ho	2	11878410	1.15	11869600	100.1	70 - 140	Ho	
197 Au	1	2239922	1.59	2238589	100.1	70 - 140	Au	
197 Au	2	2713302	0.83	2712431	100.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D$

5 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\103_CCB.D\103_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\103_CCB.D\103_CCB.D#
Date Acquired: Apr 14 2010 01:23 am
Operator:
Sample Name: ICB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.046	ug/l	60.76	1.35	Li	
9 Be	6	2	0.004	ug/l	30.42	0.23	Be	
11 B	6	2	-0.405	ug/l	61.51	14.94	B	
23 Na	45	1	0.005	ug/l	12743.00	10.60	Na	
24 Mg	45	1	0.061	ug/l	57.99	3.46	Mg	
27 Al	45	1	-1.292	ug/l	2.87	8.94	Al	
28 Si	45	2	-0.933	ug/l	226.01	35.60	Si	
29 Si	45	2	-2.159	ug/l	33.29	35.60	Si	
31 P	45	1	0.646	ug/l	112.58	16.46	P	
34 S	45	1	-186.000	ug/l	51.80	666.00	S	
34 S	45	2	-132.600	ug/l	20.33	666.00	S	
39 K	45	1	-1.279	ug/l	22.15	16.66	K	
44 Ca	45	2	-0.616	ug/l	53.67	97.40	Ca	
47 Ti	72	2	0.235	ug/l	5.45	1.15	Ti	
51 V	72	1	0.050	ug/l	5.90	4.74	V	
52 Cr	72	1	-0.001	ug/l	449.41	6.52	Cr	
55 Mn	72	1	-0.014	ug/l	22.22	0.47	Mn	
57 Fe	72	1	-0.068	ug/l	1196.80	40.70	Fe	
59 Co	72	1	0.002	ug/l	52.40	0.43	Co	
60 Ni	72	1	0.003	ug/l	117.65	0.46	Ni	
63 Cu	72	1	-0.045	ug/l	22.25	0.19	Cu	
66 Zn	72	1	-0.037	ug/l	67.87	7.48	Zn	
75 As	72	1	0.070	ug/l	28.45	1.89	As	
78 Se	72	1	0.214	ug/l	12.07	0.62	Se	
88 Sr	72	2	0.001	ug/l	50.54	0.23	Sr	
89 Y	72	1	0.001	ug/l	92.96	0.42	Y	
90 Zr	72	1	0.156	ug/l	1.48	0.50	Zr	
93 Nb	72	1	0.873	ug/l	24.37	4.46	Nb	
95 Mo	72	2	0.269	ug/l	9.43	0.43	Mo	
101 Ru	72	1	0.002	ug/l	98.50	2.00	Ru	
103 Rh	72	1	0.000	ug/l	1612.20	1.53	Rh	
105 Pd	72	1	0.001	ug/l	132.97	0.08	Pd	
107 Ag	115	2	0.000	ug/l	812.24	0.08	Ag	
111 Cd	115	2	0.014	ug/l	31.88	0.11	Cd	
118 Sn	115	2	0.080	ug/l	13.06	0.30	Sn	
121 Sb	165	2	-0.047	ug/l	22.21	2.24	Sb	
125 Te	165	1	0.253	ug/l	32.47	1.07	Te	
133 Cs	165	1	0.053	ug/l	22.34	0.11	Cs	
137 Ba	165	2	-0.002	ug/l	311.55	0.39	Ba	
139 La	165	1	0.001	ug/l	32.02	0.10	La	
140 Ce	165	1	0.001	ug/l	17.80	1.77	Ce	
141 Pr	165	1	0.001	ug/l	51.64	0.08	Pr	
146 Nd	165	1	0.003	ug/l	187.42	0.21	Nd	
147 Sm	165	2	0.000	ug/l	1290.70	0.65	Sm	
178 Hf	165	1	0.446	ug/l	2.82	2.26	Hf	
181 Ta	165	1	1.074	ug/l	13.39	1.46	Ta	
182 W	197	1	2.156	ug/l	14.39	1.68	W	FAIL
195 Pt	197	1	0.001	ug/l	188.13	0.12	Pt	
205 Tl	197	2	0.388	ug/l	10.80	1.10	Tl	
206 (Pb)	197	2	-0.018	ug/l	46.86	2.00	(Pb)	
207 (Pb)	197	2	-0.025	ug/l	50.71	2.00	(Pb)	
208 Pb	197	2	-0.023	ug/l	26.19	0.35	Pb	
209 Bi	197	1	0.002	ug/l	50.18	1.46	Bi	
232 Th	197	2	2.850	ug/l	2.78	1.10	Th	FAIL
238 U	197	2	0.050	ug/l	6.28	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6845414	0.53	6939269	98.6	70 - 140	Li	
45 Sc	1	473828	0.66	481965	98.3	70 - 140	Sc	
45 Sc	2	7217627	0.88	7351212	98.2	70 - 140	Sc	
72 Ge	1	278258	0.63	284165	97.9	70 - 140	Ge	
72 Ge	2	1439600	1.14	1476622	97.5	70 - 140	Ge	
115 In	2	8792993	0.65	8960157	98.1	70 - 140	In	
165 Ho	1	6586378	1.23	6560437	100.4	70 - 140	Ho	
165 Ho	2	11724931	0.80	11869600	98.8	70 - 140	Ho	
197 Au	1	2205434	0.79	2238589	98.5	70 - 140	Au	
197 Au	2	2661860	0.24	2712431	98.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\104CRI.D\104CRI.D#

Low Level Check (LLC) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\104CRI.D\104CRI.D#
Date Acquired: Apr 14 2010 01:31 am
Operator:
Sample Name: LLC
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: CRI
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	5.01	ug/l	1.06	5	100.1	80 - 120	Li	
9	Be	6	2	0.48	ug/l	3.10	1	95.7	80 - 120	Be	
11	B	6	2	46.73	ug/l	1.74	50	93.5	80 - 120	B	
23	Na	45	1	56.86	ug/l	0.44	50	113.7	80 - 120	Na	
24	Mg	45	1	52.99	ug/l	0.59	50	106.0	80 - 120	Mg	
27	Al	45	1	28.81	ug/l	1.24	30	96.0	80 - 120	Al	
28	Si	45	2	291.80	ug/l	1.42	250	116.7	80 - 120	Si	
29	Si	45	2	282.80	ug/l	1.40	250	113.1	80 - 120	Si	
31	P	45	1	49.92	ug/l	6.47	50	99.8	80 - 120	P	
34	S	45	1	4793.00	ug/l	1.55	5000	95.9	80 - 120	S	
34	S	45	2	5626.00	ug/l	1.82	5000	112.5	80 - 120	S	
39	K	45	1	103.50	ug/l	0.64	100	103.5	80 - 120	K	
44	Ca	45	2	108.80	ug/l	1.15	100	108.8	80 - 120	Ca	
47	Ti	72	2	5.08	ug/l	1.76	5	101.5	80 - 120	Ti	
51	V	72	1	10.58	ug/l	0.66	10	105.8	80 - 120	V	
52	Cr	72	1	10.71	ug/l	1.44	10	107.1	80 - 120	Cr	
55	Mn	72	1	2.43	ug/l	1.07	2	121.7	80 - 120	Mn	Fail
57	Fe	72	1	50.04	ug/l	0.54	50	100.1	80 - 120	Fe	
59	Co	72	1	2.16	ug/l	0.88	2	107.8	80 - 120	Co	
60	Ni	72	1	5.27	ug/l	0.76	5	105.4	80 - 120	Ni	
63	Cu	72	1	0.82	ug/l	1.42	1	81.7	80 - 120	Cu	
66	Zn	72	1	5.44	ug/l	2.66	5	108.7	80 - 120	Zn	
75	As	72	1	10.18	ug/l	0.71	10	101.8	80 - 120	As	
78	Se	72	1	5.11	ug/l	1.42	5	102.2	80 - 120	Se	
88	Sr	72	2	5.19	ug/l	1.18	5	103.7	80 - 120	Sr	
89	Y	72	1	5.25	ug/l	0.82	5	105.1	80 - 120	Y	
90	Zr	72	1	7.37	ug/l	3.45	5	147.4	80 - 120	Zr	Fail
93	Nb	72	1	29.59	ug/l	1.24	25	118.4	80 - 120	Nb	
95	Mo	72	2	4.92	ug/l	1.08	5	98.3	80 - 120	Mo	
101	Ru	72	1	10.61	ug/l	1.59	10	106.1	80 - 120	Ru	
103	Rh	72	1	10.85	ug/l	0.49	10	108.5	80 - 120	Rh	
105	Pd	72	1	0.54	ug/l	3.61	1	108.6	80 - 120	Pd	
107	Ag	115	2	2.08	ug/l	1.17	2	103.8	80 - 120	Ag	
111	Cd	115	2	0.52	ug/l	1.93	1	103.2	80 - 120	Cd	
118	Sn	115	2	2.03	ug/l	4.44	2	101.5	80 - 120	Sn	
121	Sb	165	2	5.03	ug/l	0.30	5	100.6	80 - 120	Sb	
125	Te	165	1	10.23	ug/l	2.87	10	102.3	80 - 120	Te	
133	Cs	165	1	0.11	ug/l	6.64	0	110.2	80 - 120	Cs	
137	Ba	165	2	2.04	ug/l	0.90	2	101.9	80 - 120	Ba	
139	La	165	1	2.04	ug/l	1.12	2	101.8	80 - 120	La	
140	Ce	165	1	10.23	ug/l	0.75	10	102.3	80 - 120	Ce	
141	Pr	165	1	2.01	ug/l	1.70	2	100.7	80 - 120	Pr	
146	Nd	165	1	2.03	ug/l	2.03	2	101.4	80 - 120	Nd	
147	Sm	165	2	9.84	ug/l	0.40	10	98.4	80 - 120	Sm	
178	Hf	165	1	10.36	ug/l	4.23	10	103.6	80 - 120	Hf	
181	Ta	165	1	9.24	ug/l	4.46	10	92.4	80 - 120	Ta	
182	W	197	1	5.08	ug/l	3.21	5	101.6	80 - 120	W	
195	Pt	197	1	1.00	ug/l	2.59	1	100.1	80 - 120	Pt	
205	Tl	197	2	2.08	ug/l	1.96	2	103.9	80 - 120	Tl	
206	(Pb)	197	2	2.92	ug/l	1.45	3	97.4	80 - 120	(Pb)	
207	(Pb)	197	2	2.88	ug/l	1.26	3	96.0	80 - 120	(Pb)	
208	Pb	197	2	2.93	ug/l	1.40	3	97.7	80 - 120	Pb	
209	Bi	197	1	20.49	ug/l	0.51	20	102.5	80 - 120	Bi	
232	Th	197	2	6.09	ug/l	4.43	2	304.4	80 - 120	Th	Fail
238	U	197	2	1.00	ug/l	1.01	1	100.0	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6759808	1.28	6939269	97.4	70 - 140	Li	
45	Sc	1	463213	0.17	481965	96.1	70 - 140	Sc	
45	Sc	2	7383208	0.66	7351212	97.7	70 - 140	Sc	
72	Ge	1	278736	0.29	284165	98.1	70 - 140	Ge	
72	Ge	2	1461645	1.22	1476622	99.0	70 - 140	Ge	
115	In	2	8733037	1.12	8960157	97.5	70 - 140	In	
165	Ho	1	6423524	1.46	6560437	97.9	70 - 140	Ho	
165	Ho	2	11609596	0.52	11869600	97.8	70 - 140	Ho	
197	Au	1	2199687	0.76	2238589	98.3	70 - 140	Au	
197	Au	2	2671503	1.21	2712431	98.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\105ICSA.D\105ICSA.D#

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\105ICSA.D\105ICSA.D#
Date Acquired: Apr 14 2010 01:38 am
Acq. Method: 2010.M
Operator:
Sample Name: ICSA
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:13 am
Sample Type: 6-ICSA_D
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Element	Flag
7	Li	6	2	0.08 ug/l	116.20	1.35	Li	
9	Be	6	2	-0.01 ug/l	12.18	0.23	Be	
11	B	6	2	-1.10 ug/l	12.57	14.94	B	
23	Na	45	1	9985.00 ug/l	0.67	10.60	Na	
24	Mg	45	1	9851.00 ug/l	1.42	3.46	Mg	
27	Al	45	1	9799.00 ug/l	1.76	8.94	Al	
28	Si	45	2	0.17 ug/l	264.86	35.60	Si	
29	Si	45	2	5.82 ug/l	16.70	35.60	Si	
31	P	45	1	10070.00 ug/l	0.04	16.46	P	
34	S	45	1	9926.00 ug/l	0.36	666.00	S	
34	S	45	2	10920.00 ug/l	1.68	666.00	S	
39	K	45	1	9504.00 ug/l	2.15	16.66	K	
44	Ca	45	2	9972.00 ug/l	1.02	97.40	Ca	
47	Ti	72	2	209.20 ug/l	0.50	1.15	Ti	
51	V	72	1	0.04 ug/l	23.39	4.74	V	
52	Cr	72	1	0.16 ug/l	1.75	6.52	Cr	
55	Mn	72	1	0.06 ug/l	8.82	0.47	Mn	
57	Fe	72	1	10260.00 ug/l	3.06	40.70	Fe	
59	Co	72	1	0.00 ug/l	307.78	0.43	Co	
60	Ni	72	1	0.10 ug/l	7.75	0.46	Ni	
63	Cu	72	1	-0.27 ug/l	2.71	0.19	Cu	FAIL
66	Zn	72	1	3.34 ug/l	1.02	7.48	Zn	
75	As	72	1	0.02 ug/l	94.93	1.89	As	
78	Se	72	1	0.09 ug/l	69.63	0.62	Se	
88	Sr	72	2	0.57 ug/l	2.21	0.23	Sr	FAIL
89	Y	72	1	0.00 ug/l	9.26	0.42	Y	
90	Zr	72	1	0.70 ug/l	15.00	0.50	Zr	FAIL
93	Nb	72	1	0.42 ug/l	34.91	4.46	Nb	
95	Mo	72	2	201.00 ug/l	1.21	0.43	Mo	
101	Ru	72	1	-0.01 ug/l	21.61	2.00	Ru	
103	Rh	72	1	-0.01 ug/l	11.38	1.63	Rh	
105	Pd	72	1	0.00 ug/l	294.10	0.08	Pd	
107	Ag	115	2	0.01 ug/l	27.76	0.08	Ag	
111	Cd	115	2	0.09 ug/l	4.39	0.11	Cd	
118	Sn	115	2	-0.38 ug/l	3.06	0.30	Sn	FAIL
121	Sb	165	2	-0.05 ug/l	10.11	2.24	Sb	
125	Te	165	1	0.07 ug/l	30.74	1.07	Te	
133	Cs	165	1	0.00 ug/l	525.70	0.11	Cs	
137	Ba	165	2	0.03 ug/l	10.06	0.39	Ba	
139	La	165	1	0.00 ug/l	111.79	0.10	La	
140	Ce	165	1	0.00 ug/l	16.16	1.77	Ce	
141	Pr	165	1	0.00 ug/l	9.54	0.08	Pr	
146	Nd	165	1	0.00 ug/l	60.30	0.21	Nd	
147	Sm	165	2	-0.01 ug/l	5.59	0.65	Sm	
178	Hf	165	1	1.38 ug/l	14.81	2.26	Hf	
181	Ta	165	1	0.68 ug/l	18.37	1.46	Ta	
182	W	197	1	0.37 ug/l	41.52	1.68	W	
195	Pt	197	1	0.00 ug/l	59.63	0.12	Pt	
205	Tl	197	2	0.01 ug/l	38.96	1.10	Tl	
206	(Pb)	197	2	-0.02 ug/l	0.40	2.00	(Pb)	
207	(Pb)	197	2	-0.02 ug/l	42.56	2.00	(Pb)	
208	Pb	197	2	-0.02 ug/l	1.40	0.35	Pb	
209	Bi	197	1	-0.01 ug/l	3.42	1.46	Bi	
232	Th	197	2	4.68 ug/l	0.92	1.10	Th	FAIL
238	U	197	2	0.00 ug/l	58.25	0.16	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6614116	0.75	6939269	95.3	70 - 140	Li	
45	Sc	1	455998	0.81	481965	94.6	70 - 140	Sc	
45	Sc	2	7024880	0.78	7351212	95.6	70 - 140	Sc	
72	Ge	1	271294	1.13	284165	95.5	70 - 140	Ge	
72	Ge	2	1392710	0.73	1476622	94.3	70 - 140	Ge	
115	In	2	8359087	0.49	8960157	93.3	70 - 140	In	
165	Ho	1	6278742	0.18	6560437	95.7	70 - 140	Ho	
165	Ho	2	11531541	1.01	11869600	97.2	70 - 140	Ho	
197	Au	1	2066802	1.48	2238589	92.3	70 - 140	Au	
197	Au	2	2542121	0.28	2712431	93.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\106ICSB.D\106ICSB.D#

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\106ICSB.D\106ICSB.D#
Date Acquired: Apr 14 2010 01:45 am
Acq. Method: 2010.M
Operator:
Sample Name: ICSAB
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:13 am
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Element	Flag
7 Li	6	2	98.87	0.37	100	98.9	80 - 120	Li	
9 Be	6	2	99.93	1.94	100	99.9	80 - 120	Be	
11 B	6	2	201.00	0.94	200	100.5	80 - 120	B	
23 Na	45	1	9973.00	0.96	10000	99.7	80 - 120	Na	
24 Mg	45	1	9950.00	1.05	10000	99.5	80 - 120	Mg	
27 Al	45	1	9909.00	1.24	10000	99.1	80 - 120	Al	
28 Si	45	2	590.00	0.91	500	118.0	80 - 120	Si	
29 Si	45	2	572.30	1.03	500	114.5	80 - 120	Si	
31 P	45	1	10000.00	0.80	10000	100.0	80 - 120	P	
34 S	45	1	9963.00	1.18	10000	99.6	80 - 120	S	
34 S	45	2	10670.00	1.15	10000	106.7	80 - 120	S	
39 K	45	1	9648.00	1.15	10000	96.5	80 - 120	K	
44 Ca	45	2	9925.00	0.23	10000	99.3	80 - 120	Ca	
47 Ti	72	2	205.10	0.69	200	102.6	80 - 120	Ti	
51 V	72	1	104.90	0.58	100	104.9	80 - 120	V	
52 Cr	72	1	103.40	0.53	100	103.4	80 - 120	Cr	
55 Mn	72	1	101.90	1.53	100	101.9	80 - 120	Mn	
57 Fe	72	1	10400.00	1.14	10000	104.0	80 - 120	Fe	
59 Co	72	1	102.80	1.12	100	102.8	80 - 120	Co	
60 Ni	72	1	100.90	0.89	100	100.9	80 - 120	Ni	
63 Cu	72	1	102.00	0.97	100	102.0	80 - 120	Cu	
66 Zn	72	1	102.90	0.18	100	102.9	80 - 120	Zn	
75 As	72	1	102.20	0.65	100	102.2	80 - 120	As	
78 Se	72	1	102.20	1.39	100	102.2	80 - 120	Se	
88 Sr	72	2	99.92	0.92	100	99.9	80 - 120	Sr	
89 Y	72	1	105.50	2.40	100	105.5	80 - 120	Y	
90 Zr	72	1	96.32	1.79	100	96.3	80 - 120	Zr	
93 Nb	72	1	85.20	2.20	100	85.2	80 - 120	Nb	
95 Mo	72	2	197.40	0.03	200	98.7	80 - 120	Mo	
101 Ru	72	1	100.30	0.22	100	100.3	80 - 120	Ru	
103 Rh	72	1	100.60	2.98	100	100.6	80 - 120	Rh	
105 Pd	72	1	24.70	2.63	25	98.8	80 - 120	Pd	
107 Ag	115	2	19.65	0.15	20	98.3	80 - 120	Ag	
111 Cd	115	2	98.03	0.67	100	98.0	80 - 120	Cd	
118 Sn	115	2	99.27	0.51	100	99.3	80 - 120	Sn	
121 Sb	165	2	48.57	1.37	50	97.1	80 - 120	Sb	
125 Te	165	1	95.76	1.47	100	95.8	80 - 120	Te	
133 Cs	165	1	98.47	1.15	100	98.5	80 - 120	Cs	
137 Ba	165	2	98.94	1.10	100	98.9	80 - 120	Ba	
139 La	165	1	98.94	2.11	100	98.9	80 - 120	La	
140 Ce	165	1	100.80	2.11	100	100.8	80 - 120	Ce	
141 Pr	165	1	99.69	2.18	100	99.7	80 - 120	Pr	
146 Nd	165	1	97.85	1.24	100	97.9	80 - 120	Nd	
147 Sm	165	2	98.77	1.14	100	98.8	80 - 120	Sm	
178 Hf	165	1	89.21	1.56	100	89.2	80 - 120	Hf	
181 Ta	165	1	92.09	0.91	100	92.1	80 - 120	Ta	
182 W	197	1	94.91	0.74	100	94.9	80 - 120	W	
195 Pt	197	1	24.40	0.47	25	97.6	80 - 120	Pt	
205 Tl	197	2	99.85	1.14	100	99.9	80 - 120	Tl	
206 (Pb)	197	2	99.46	1.11	100	99.5	80 - 120	(Pb)	
207 (Pb)	197	2	97.27	1.42	100	97.3	80 - 120	(Pb)	
208 Pb	197	2	98.42	1.14	100	98.4	80 - 120	Pb	
209 Bi	197	1	99.79	0.87	100	99.8	80 - 120	Bi	
232 Th	197	2	96.29	1.05	100	96.3	80 - 120	Th	
238 U	197	2	99.85	1.48	100	99.9	80 - 120	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6605121	0.62	6939269	95.2	70 - 140	Li	
45 Sc	1	452141	0.78	481965	93.8	70 - 140	Sc	
45 Sc	2	7064366	0.71	7351212	96.1	70 - 140	Sc	
72 Ge	1	269872	1.33	284165	95.0	70 - 140	Ge	
72 Ge	2	1409711	0.67	1476622	95.5	70 - 140	Ge	
115 In	2	8397949	0.53	8960157	93.7	70 - 140	In	
165 Ho	1	6335073	0.86	6560437	96.6	70 - 140	Ho	
165 Ho	2	11478114	1.81	11869600	96.7	70 - 140	Ho	
197 Au	1	2083823	0.90	2238589	93.1	70 - 140	Au	
197 Au	2	2577991	0.73	2712431	95.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\107_CCV.D\107_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\107_CCV.D\107_CCV.D#
Date Acquired: Apr 14 2010 01:52 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	98.20	ug/l	1.27	100	98.2	90 - 110	Li	
9	Be	6	2	98.52	ug/l	1.30	100	98.5	90 - 110	Be	
11	B	6	2	198.20	ug/l	2.73	200	99.1	90 - 110	B	
23	Na	45	1	1289.00	ug/l	1.01	1250	103.1	90 - 110	Na	
24	Mg	45	1	2574.00	ug/l	0.29	2500	103.0	90 - 110	Mg	
27	Al	45	1	1268.00	ug/l	0.37	1250	101.4	90 - 110	Al	
28	Si	45	2	1240.00	ug/l	1.16	1250	99.2	90 - 110	Si	
29	Si	45	2	1250.00	ug/l	1.38	1250	100.0	90 - 110	Si	
31	P	45	1	1250.00	ug/l	0.37	1250	100.0	90 - 110	P	
34	S	45	1	19810.00	ug/l	2.04	20000	99.1	90 - 110	S	
34	S	45	2	20270.00	ug/l	1.22	20000	101.4	90 - 110	S	
39	K	45	1	1242.00	ug/l	2.39	1250	99.4	90 - 110	K	
44	Ca	45	2	2551.00	ug/l	0.80	2500	102.0	90 - 110	Ca	
47	Ti	72	2	99.21	ug/l	0.72	100	99.2	90 - 110	Ti	
51	V	72	1	104.10	ug/l	0.64	100	104.1	90 - 110	V	
52	Cr	72	1	103.50	ug/l	1.20	100	103.5	90 - 110	Cr	
55	Mn	72	1	102.10	ug/l	0.31	100	102.1	90 - 110	Mn	
57	Fe	72	1	2586.00	ug/l	0.31	2500	103.4	90 - 110	Fe	
59	Co	72	1	103.00	ug/l	1.08	100	103.0	90 - 110	Co	
60	Ni	72	1	102.30	ug/l	0.12	100	102.3	90 - 110	Ni	
63	Cu	72	1	103.80	ug/l	0.67	100	103.8	90 - 110	Cu	
66	Zn	72	1	101.10	ug/l	0.44	100	101.1	90 - 110	Zn	
75	As	72	1	101.50	ug/l	0.83	100	101.5	90 - 110	As	
78	Se	72	1	102.20	ug/l	0.42	100	102.2	90 - 110	Se	
88	Sr	72	2	99.77	ug/l	0.36	100	99.8	90 - 110	Sr	
89	Y	72	1	104.60	ug/l	1.23	100	104.6	90 - 110	Y	
90	Zr	72	1	102.60	ug/l	0.82	100	102.6	90 - 110	Zr	
93	Nb	72	1	59.85	ug/l	0.65	50	119.7	90 - 110	Nb	Fail
95	Mo	72	2	97.55	ug/l	1.06	100	97.6	90 - 110	Mo	
101	Ru	72	1	103.80	ug/l	0.46	100	103.8	90 - 110	Ru	
103	Rh	72	1	104.30	ug/l	1.08	100	104.3	90 - 110	Rh	
105	Pd	72	1	10.38	ug/l	0.96	10	103.8	90 - 110	Pd	
107	Ag	115	2	20.24	ug/l	0.81	20	101.2	90 - 110	Ag	
111	Cd	115	2	99.13	ug/l	0.75	100	99.1	90 - 110	Cd	
118	Sn	115	2	100.90	ug/l	0.06	100	100.9	90 - 110	Sn	
121	Sb	165	2	49.16	ug/l	0.80	50	98.3	90 - 110	Sb	
125	Te	165	1	99.07	ug/l	0.87	100	99.1	90 - 110	Te	
133	Cs	165	1	99.31	ug/l	0.45	100	99.3	90 - 110	Cs	
137	Ba	165	2	96.45	ug/l	0.20	100	96.5	90 - 110	Ba	
139	La	165	1	99.70	ug/l	0.50	100	99.7	90 - 110	La	
140	Ce	165	1	100.60	ug/l	1.15	100	100.6	90 - 110	Ce	
141	Pr	165	1	101.00	ug/l	0.65	100	101.0	90 - 110	Pr	
146	Nd	165	1	99.28	ug/l	0.20	100	99.3	90 - 110	Nd	
147	Sm	165	2	97.02	ug/l	0.98	100	97.0	90 - 110	Sm	
178	Hf	165	1	101.80	ug/l	1.27	100	101.8	90 - 110	Hf	
181	Ta	165	1	97.96	ug/l	1.29	100	98.0	90 - 110	Ta	
182	W	197	1	97.34	ug/l	0.47	100	97.3	90 - 110	W	
195	Pt	197	1	9.94	ug/l	0.90	10	99.4	90 - 110	Pt	
205	Tl	197	2	99.12	ug/l	1.72	100	99.1	90 - 110	Tl	
206	(Pb)	197	2	98.49	ug/l	1.27	100	98.5	90 - 110	(Pb)	
207	(Pb)	197	2	96.61	ug/l	1.74	100	96.6	90 - 110	(Pb)	
208	Pb	197	2	98.19	ug/l	0.85	100	98.2	90 - 110	Pb	
209	Bi	197	1	100.70	ug/l	0.55	100	100.7	90 - 110	Bi	
232	Th	197	2	94.33	ug/l	1.23	100	94.3	90 - 110	Th	
238	U	197	2	97.07	ug/l	0.81	100	97.1	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6738531	0.95	6939269	97.1	70 - 140	Li	
45	Sc	1	454184	0.67	481965	94.2	70 - 140	Sc	
45	Sc	2	7148300	0.51	7351212	97.2	70 - 140	Sc	
72	Ge	1	277733	1.00	284165	97.7	70 - 140	Ge	
72	Ge	2	1459069	0.46	1476622	98.8	70 - 140	Ge	
115	In	2	8774849	0.48	8960157	97.9	70 - 140	In	
165	Ho	1	6467872	0.51	6560437	98.6	70 - 140	Ho	
165	Ho	2	11969220	0.51	11869600	100.8	70 - 140	Ho	
197	Au	1	2203425	0.64	2238589	98.4	70 - 140	Au	
197	Au	2	2721191	0.56	2712431	100.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\108_CCB.D\108_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\108_CCB.D\108_CCB.D#
Date Acquired: Apr 14 2010 02:00 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOT
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.047	ug/l	138.09	1.35	Li	
9 Be	6	2	0.002	ug/l	135.63	0.23	Be	
11 B	6	2	-1.389	ug/l	10.07	14.94	B	
23 Na	45	1	0.543	ug/l	18.02	10.60	Na	
24 Mg	45	1	0.145	ug/l	60.61	3.46	Mg	
27 Al	45	1	-1.384	ug/l	6.83	8.94	Al	
28 Si	45	2	-2.632	ug/l	4.71	35.60	Si	
29 Si	45	2	-2.518	ug/l	39.03	35.60	Si	
31 P	45	1	1.491	ug/l	73.24	16.46	P	
34 S	45	1	-184.600	ug/l	23.26	666.00	S	
34 S	45	2	-254.100	ug/l	10.41	666.00	S	
39 K	45	1	-0.159	ug/l	134.82	16.66	K	
44 Ca	45	2	-0.627	ug/l	40.34	97.40	Ca	
47 Ti	72	2	0.243	ug/l	10.81	1.15	Ti	
51 V	72	1	0.097	ug/l	5.46	4.74	V	
52 Cr	72	1	0.007	ug/l	32.09	6.52	Cr	
55 Mn	72	1	-0.010	ug/l	80.52	0.47	Mn	
57 Fe	72	1	3.682	ug/l	43.81	40.70	Fe	
59 Co	72	1	0.005	ug/l	39.24	0.43	Co	
60 Ni	72	1	-0.002	ug/l	134.92	0.46	Ni	
63 Cu	72	1	-0.068	ug/l	17.23	0.19	Cu	
66 Zn	72	1	-0.058	ug/l	58.23	7.48	Zn	
75 As	72	1	0.045	ug/l	41.78	1.89	As	
78 Se	72	1	0.241	ug/l	28.07	0.62	Se	
88 Sr	72	2	0.002	ug/l	25.06	0.23	Sr	
89 Y	72	1	0.004	ug/l	131.75	0.42	Y	
90 Zr	72	1	0.132	ug/l	6.26	0.50	Zr	
93 Nb	72	1	1.894	ug/l	17.40	4.46	Nb	
95 Mo	72	2	0.362	ug/l	1.50	0.43	Mo	
101 Ru	72	1	0.008	ug/l	10.16	2.00	Ru	
103 Rh	72	1	0.032	ug/l	9.30	1.63	Rh	
105 Pd	72	1	0.005	ug/l	47.63	0.08	Pd	
107 Ag	115	2	0.000	ug/l	552.44	0.08	Ag	
111 Cd	115	2	0.009	ug/l	36.25	0.11	Cd	
118 Sn	115	2	-0.153	ug/l	28.59	0.30	Sn	
121 Sb	165	2	-0.025	ug/l	24.54	2.24	Sb	
125 Te	165	1	0.216	ug/l	19.17	1.07	Te	
133 Cs	165	1	0.060	ug/l	11.65	0.11	Cs	
137 Ba	165	2	-0.002	ug/l	201.56	0.39	Ba	
139 La	165	1	0.005	ug/l	18.95	0.10	La	
140 Ce	165	1	0.006	ug/l	9.83	1.77	Ce	
141 Pr	165	1	0.007	ug/l	12.19	0.08	Pr	
146 Nd	165	1	0.009	ug/l	29.31	0.21	Nd	
147 Sm	165	2	0.001	ug/l	74.52	0.65	Sm	
178 Hf	165	1	0.336	ug/l	3.31	2.26	Hf	
181 Ta	165	1	0.425	ug/l	19.86	1.46	Ta	
182 W	197	1	1.765	ug/l	13.90	1.68	W	FAIL
195 Pt	197	1	0.002	ug/l	30.98	0.12	Pt	
205 Tl	197	2	0.488	ug/l	7.89	1.10	Tl	
206 (Pb)	197	2	-0.033	ug/l	17.04	2.00	(Pb)	
207 (Pb)	197	2	-0.042	ug/l	22.71	2.00	(Pb)	
208 Pb	197	2	-0.040	ug/l	9.77	0.35	Pb	
209 Bi	197	1	-0.006	ug/l	28.21	1.46	Bi	
232 Th	197	2	1.414	ug/l	1.58	1.10	Th	FAIL
238 U	197	2	0.044	ug/l	8.04	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6886368	1.05	6939269	99.2	70 - 140	Li	
45 Sc	1	467214	0.61	481965	96.9	70 - 140	Sc	
45 Sc	2	7248808	1.23	7351212	98.6	70 - 140	Sc	
72 Ge	1	277823	0.33	284165	97.8	70 - 140	Ge	
72 Ge	2	1444194	1.43	1476622	97.8	70 - 140	Ge	
115 In	2	8916185	1.31	8960157	99.5	70 - 140	In	
165 Ho	1	6584484	0.51	6560437	100.4	70 - 140	Ho	
165 Ho	2	11804513	0.26	11869600	99.5	70 - 140	Ho	
197 Au	1	2212784	0.55	2238589	98.8	70 - 140	Au	
197 Au	2	2705279	0.55	2712431	99.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\109_PB.D\109_PB.D#

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\109_PB.D\109_PB.D#
Date Acquired: Apr 14 2010 02:07 am
Operator:
Sample Name: LXNKFB
Misc Info: 0098214
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-MB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tuna	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.042	ug/l	325.02	2.50	Li	
9 Be	6	2	-0.007	ug/l	17.15	0.25	Be	
11 B	6	2	-1.606	ug/l	8.95	25.00	B	
23 Na	45	1	19.270	ug/l	3.27	25.00	Na	
24 Mg	45	1	1.744	ug/l	7.29	25.00	Mg	
27 Al	45	1	4.702	ug/l	0.92	15.00	Al	
28 Si	45	2	43.240	ug/l	3.82	125.00	Si	
29 Si	45	2	46.400	ug/l	1.02	125.00	Si	
31 P	45	1	4.711	ug/l	17.97	25.00	P	
34 S	45	1	-32.080	ug/l	155.80	2500.00	S	
34 S	45	2	-87.120	ug/l	13.07	2500.00	S	
39 K	45	1	-0.219	ug/l	244.97	50.00	K	
44 Ca	45	2	20.770	ug/l	0.14	50.00	Ca	
47 Ti	72	2	0.223	ug/l	5.59	2.50	Ti	
51 V	72	1	0.358	ug/l	6.44	5.00	V	
52 Cr	72	1	0.046	ug/l	23.33	5.00	Cr	
55 Mn	72	1	0.032	ug/l	7.48	1.00	Mn	
57 Fe	72	1	6.413	ug/l	26.88	25.00	Fe	
59 Co	72	1	-0.006	ug/l	23.96	1.00	Co	
60 Ni	72	1	0.064	ug/l	5.20	2.50	Ni	
63 Cu	72	1	-0.203	ug/l	4.39	0.50	Cu	
66 Zn	72	1	1.650	ug/l	1.97	2.50	Zn	
75 As	72	1	0.113	ug/l	6.28	5.00	As	
78 Se	72	1	0.135	ug/l	56.95	2.50	Se	
88 Sr	72	2	0.041	ug/l	2.20	2.50	Sr	
89 Y	72	1	-0.005	ug/l	19.17	2.50	Y	
90 Zr	72	1	0.390	ug/l	8.27	2.50	Zr	
93 Nb	72	1	1.383	ug/l	21.09	12.50	Nb	
95 Mo	72	2	0.097	ug/l	6.36	2.50	Mo	
101 Ru	72	1	0.007	ug/l	38.04	5.00	Ru	
103 Rh	72	1	0.139	ug/l	1.02	5.00	Rh	
105 Pd	72	1	0.001	ug/l	125.74	0.25	Pd	
107 Ag	115	2	0.001	ug/l	256.43	1.00	Ag	
111 Cd	115	2	0.001	ug/l	352.80	0.25	Cd	
118 Sn	115	2	0.185	ug/l	14.81	1.00	Sn	
121 Sb	165	2	0.305	ug/l	3.57	2.50	Sb	
125 Te	165	1	0.069	ug/l	66.72	5.00	Te	
133 Cs	165	1	0.010	ug/l	61.87	0.05	Cs	
137 Ba	165	2	0.046	ug/l	4.01	1.00	Ba	
139 La	165	1	-0.001	ug/l	125.79	1.00	La	
140 Ce	165	1	-0.004	ug/l	16.02	5.00	Ce	
141 Pr	165	1	-0.004	ug/l	7.97	1.00	Pr	
146 Nd	165	1	-0.004	ug/l	28.61	1.00	Nd	
147 Sm	165	2	-0.007	ug/l	19.88	5.00	Sm	
178 Hf	165	1	1.086	ug/l	8.06	5.00	Hf	
181 Ta	165	1	0.743	ug/l	15.55	5.00	Ta	
182 W	197	1	0.657	ug/l	28.06	2.50	W	
195 Pt	197	1	0.007	ug/l	42.84	0.50	Pt	
205 Tl	197	2	0.131	ug/l	8.12	1.00	Tl	
206 (Pb)	197	2	0.009	ug/l	66.25	1.50	(Pb)	
207 (Pb)	197	2	0.006	ug/l	191.62	1.50	(Pb)	
208 Pb	197	2	0.005	ug/l	119.02	1.50	Pb	
209 Bi	197	1	0.030	ug/l	25.64	10.00	Bi	
232 Th	197	2	3.792	ug/l	3.37	1.00	Th	FAIL
238 U	197	2	0.010	ug/l	16.16	0.50	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	7036227	1.11	6939269	101.4	70 - 140	Li	
45 Sc	1	466422	1.11	481965	96.8	70 - 140	Sc	
45 Sc	2	7201543	0.94	7351212	98.0	70 - 140	Sc	
72 Ge	1	286430	2.37	284165	100.8	70 - 140	Ge	
72 Ge	2	1503193	1.16	1476622	101.8	70 - 140	Ge	
115 In	2	8725352	1.16	8960157	97.4	70 - 140	In	
165 Ho	1	6520174	2.23	6560437	99.4	70 - 140	Ho	
165 Ho	2	11877921	0.40	11869600	100.1	70 - 140	Ho	
197 Au	1	2219978	1.35	2238589	94.7	70 - 140	Au	
197 Au	2	2576471	1.36	2712431	95.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\110_LCS.D\110_LCS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\110_LCS.D\110_LCS.D#
Date Acquired: Apr 14 2010 02:14 am
Acq. Method: 2010.M
Operator:
Sample Name: LXNHFC
Misc Info:
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:13 am
Sample Type: 6-LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	1018.00	2.18	1000	101.8	80 - 120	Li	
9	Be	6	2	964.90	0.64	1000	96.5	80 - 120	Be	
11	B	6	2	1009.00	0.43	1000	100.9	80 - 120	B	
23	Na	45	1	9921.00	10.34	10000	99.2	80 - 120	Na	
24	Mg	45	1	9804.00	11.01	10000	98.0	80 - 120	Mg	
27	Al	45	1	9601.00	11.04	10000	96.0	80 - 120	Al	
28	Si	45	2	119.60	0.78	1000	12.0	80 - 120	Si	FAIL
29	Si	45	2	116.00	1.49	1000	11.6	80 - 120	Si	FAIL
31	P	45	1	953.70	11.02	1000	95.4	80 - 120	P	
34	S	45	1	9582.00	14.87	10000	95.8	80 - 120	S	
34	S	45	2	10010.00	0.96	10000	100.1	80 - 120	S	
39	K	45	1	9481.00	9.06	10000	94.8	80 - 120	K	
44	Ca	45	2	9690.00	1.32	10000	96.9	80 - 120	Ca	
47	Ti	72	2	989.20	1.15	1000	98.9	80 - 120	Ti	
51	V	72	1	995.70	9.75	1000	99.6	80 - 120	V	
52	Cr	72	1	993.20	9.43	1000	99.3	80 - 120	Cr	
55	Mn	72	1	981.60	8.05	1000	98.2	80 - 120	Mn	
57	Fe	72	1	10490.00	8.32	10000	104.9	80 - 120	Fe	
59	Co	72	1	1008.00	8.68	1000	100.8	80 - 120	Co	
60	Ni	72	1	983.70	8.42	1000	98.4	80 - 120	Ni	
63	Cu	72	1	961.00	9.47	1000	96.1	80 - 120	Cu	
66	Zn	72	1	946.20	8.35	1000	94.6	80 - 120	Zn	
75	As	72	1	976.50	8.21	1000	97.7	80 - 120	As	
78	Se	72	1	953.20	8.90	1000	95.3	80 - 120	Se	
88	Sr	72	2	975.50	1.30	1000	97.6	80 - 120	Sr	
89	Y	72	1	0.06	5.92	1000	0.0	80 - 120	Y	FAIL
90	Zr	72	1	981.00	7.47	1000	98.1	80 - 120	Zr	
93	Nb	72	1	256.20	8.03	250	102.5	80 - 120	Nb	
95	Mo	72	2	958.50	1.64	1000	95.9	80 - 120	Mo	
101	Ru	72	1	0.01	45.69	1000	0.0	80 - 120	Ru	FAIL
103	Rh	72	1	0.13	5.13	1000	0.0	80 - 120	Rh	FAIL
105	Pd	72	1	0.06	12.01	100	0.1	80 - 120	Pd	FAIL
107	Ag	115	2	96.21	0.62	100	96.2	80 - 120	Ag	
111	Cd	115	2	934.10	0.54	1000	93.4	80 - 120	Cd	
118	Sn	115	2	982.60	0.93	1000	98.3	80 - 120	Sn	
121	Sb	165	2	447.90	0.14	500	89.6	80 - 120	Sb	
125	Te	165	1	0.25	42.05	1000	0.0	80 - 120	Te	FAIL
133	Cs	165	1	0.01	25.56	1000	0.0	80 - 120	Cs	FAIL
137	Ba	165	2	944.00	1.10	1000	94.4	80 - 120	Ba	
139	La	165	1	0.01	17.70	1000	0.0	80 - 120	La	FAIL
140	Ce	165	1	0.00	106.43	1000	0.0	80 - 120	Ce	FAIL
141	Pr	165	1	0.00	17.13	1000	0.0	80 - 120	Pr	FAIL
146	Nd	165	1	0.00	90.34	1000	0.0	80 - 120	Nd	FAIL
147	Sm	165	2	933.30	1.03	1000	93.3	80 - 120	Sm	
178	Hf	165	1	15.59	18.10	1000	1.6	80 - 120	Hf	FAIL
181	Ta	165	1	9.84	4.54	1000	1.0	80 - 120	Ta	FAIL
182	W	197	1	1042.00	8.97	1000	104.2	80 - 120	W	
195	Pt	197	1	0.06	16.45	100	0.1	80 - 120	Pt	FAIL
205	Tl	197	2	1040.00	0.85	1000	104.0	80 - 120	Tl	
206	(Pb)	197	2	977.00	1.13	1000	97.7	80 - 120	(Pb)	
207	(Pb)	197	2	1015.00	1.09	1000	101.5	80 - 120	(Pb)	
208	Pb	197	2	1002.00	0.90	1000	100.2	80 - 120	Pb	
209	Bi	197	1	995.40	9.33	1000	99.5	80 - 120	Bi	
232	Th	197	2	1047.00	0.24	1000	104.7	80 - 120	Th	
238	U	197	2	1075.00	1.22	1000	107.5	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6466232	1.32	6939269	93.2	70 - 140	Li	
45	Sc	1	454101	9.13	481965	94.2	70 - 140	Sc	
45	Sc	2	7053958	0.51	7351212	96.0	70 - 140	Sc	
72	Ge	1	265101	7.10	284165	93.3	70 - 140	Ge	
72	Ge	2	1393153	1.23	1476622	94.3	70 - 140	Ge	
115	In	2	8295286	0.51	8960157	92.6	70 - 140	In	
165	Ho	1	6240723	10.55	6560437	95.1	70 - 140	Ho	
165	Ho	2	11544781	0.51	11869600	97.3	70 - 140	Ho	
197	Au	1	1986407	8.33	2238589	88.7	70 - 140	Au	
197	Au	2	2465006	0.75	2712431	90.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

15 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1115MPL.D\1115MPL.D#
Date Acquired: Apr 14 2010 02:21 am
Operator:
Sample Name: LN483
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	0.38 ug/l	0.00	39.04	1000	Li	
9	Be	6	2	0.03 ug/l	0.00	6.34	1000	Be	
11	B	6	2	7.53 ug/l	0.00	7.94	2000	B	
23	Na	45	1	178.40 ug/l	0.00	0.85	200000	Na	
24	Mg	45	1	17.59 ug/l	0.00	0.84	200000	Mg	
27	Al	45	1	74.29 ug/l	0.00	1.90	200000	Al	
28	Si	45	2	239.80 ug/l	0.00	0.89	200000	Si	
29	Si	45	2	237.30 ug/l	0.00	0.24	200000	Si	
31	P	45	1	5.47 ug/l	0.00	20.51	200000	P	
34	S	45	1	-348.90 ug/l	0.00	41.22	200000	S	
34	S	45	2	-376.20 ug/l	0.00	6.23	200000	S	
39	K	45	1	45.70 ug/l	0.00	0.98	200000	K	
44	Ca	45	2	93.06 ug/l	0.00	0.53	200000	Ca	
47	Ti	72	2	2.62 ug/l	0.00	3.94	5000	Ti	
51	V	72	1	0.44 ug/l	0.00	3.43	2000	V	
52	Cr	72	1	0.81 ug/l	0.00	0.42	2000	Cr	
55	Mn	72	1	1.71 ug/l	0.00	1.39	5000	Mn	
57	Fe	72	1	64.14 ug/l	0.00	1.51	200000	Fe	
59	Co	72	1	0.02 ug/l	0.00	9.73	2000	Co	
60	Ni	72	1	0.39 ug/l	0.00	5.48	2000	Ni	
63	Cu	72	1	0.16 ug/l	0.00	4.12	5000	Cu	
66	Zn	72	1	3.57 ug/l	0.00	0.44	5000	Zn	
75	As	72	1	0.58 ug/l	0.00	3.61	2000	As	
78	Se	72	1	0.38 ug/l	0.00	6.51	2000	Se	
88	Sr	72	2	0.54 ug/l	0.00	0.90	5000	Sr	
89	Y	72	1	0.08 ug/l	0.00	5.95	2000	Y	
90	Zr	72	1	1.09 ug/l	0.00	2.73	2000	Zr	
93	Nb	72	1	6.96 ug/l	0.00	8.73	2000	Nb	
95	Mo	72	2	0.84 ug/l	0.00	3.04	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	328.51	2000	Ru	
103	Rh	72	1	0.05 ug/l	0.00	5.71	2000	Rh	
105	Pd	72	1	0.00 ug/l	0.00	61.10	2000	Pd	
107	Ag	115	2	0.00 ug/l	0.00	219.14	400	Ag	
111	Cd	115	2	0.06 ug/l	0.00	19.58	2000	Cd	
118	Sn	115	2	0.77 ug/l	0.00	10.53	2000	Sn	
121	Sb	165	2	0.25 ug/l	0.00	2.94	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	162.28	2000	Te	
133	Cs	165	1	0.00 ug/l	0.00	51.09	2000	Cs	
137	Ba	165	2	0.75 ug/l	0.00	1.37	5000	Ba	
139	La	165	1	0.14 ug/l	0.00	3.62	2000	La	
140	Ce	165	1	0.27 ug/l	0.00	2.97	2000	Ce	
141	Pr	165	1	0.03 ug/l	0.00	5.70	2000	Pr	
146	Nd	165	1	0.10 ug/l	0.00	7.39	2000	Nd	
147	Sm	165	2	0.01 ug/l	0.00	7.63	2000	Sm	
178	Hf	165	1	0.00 ug/l	0.00	341.58	2000	Hf	
181	Ta	165	1	0.21 ug/l	0.00	24.51	2000	Ta	
182	W	197	1	7.32 ug/l	0.00	5.29	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	22.01	2000	Pt	
205	Tl	197	2	1.80 ug/l	0.00	5.55	2000	Tl	
206	(Pb)	197	2	0.18 ug/l	0.00	5.52	2000	(Pb)	
207	(Pb)	197	2	0.18 ug/l	0.00	6.98	2000	(Pb)	
208	Pb	197	2	0.17 ug/l	0.00	4.63	5000	Pb	
209	Bi	197	1	0.18 ug/l	0.00	11.19	2000	Bi	
232	Th	197	2	7.65 ug/l	0.00	4.46	2000	Th	
238	U	197	2	0.19 ug/l	0.00	7.55	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6902557	1.08	6939269	99.5	70 - 140	Li	
45	Sc	1	453240	1.06	481965	94.0	70 - 140	Sc	
45	Sc	2	6945058	0.16	7351212	94.5	70 - 140	Sc	
72	Ge	1	273371	0.79	284165	96.2	70 - 140	Ge	
72	Ge	2	1443958	0.42	1476622	97.8	70 - 140	Ge	
115	In	2	8660537	1.12	8960157	96.7	70 - 140	In	
165	Ho	1	6423213	0.28	6560437	97.9	70 - 140	Ho	
165	Ho	2	11750379	1.34	11869600	99.0	70 - 140	Ho	
197	Au	1	2104515	0.56	2238589	94.0	70 - 140	Au	
197	Au	2	2556521	0.57	2712431	94.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\112SMPL.D\112SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\112SMPL.D\112SMPL.D#
Date Acquired: Apr 14 2010 02:29 am
Operator:
Sample Name: LW49H
Misc Info:
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.08 ug/l	0.00	101.43	1000	Li	
9 Be	6	2	0.00 ug/l	0.00	114.78	1000	Be	
11 B	6	2	2.91 ug/l	0.00	9.39	2000	B	
23 Na	45	1	22.03 ug/l	0.00	1.69	200000	Na	
24 Mg	45	1	2.78 ug/l	0.00	12.54	200000	Mg	
27 Al	45	1	5.17 ug/l	0.00	3.14	200000	Al	
28 Si	45	2	58.79 ug/l	0.00	1.69	200000	Si	
29 Si	45	2	58.88 ug/l	0.00	1.41	200000	Si	
31 P	45	1	4.22 ug/l	0.00	27.31	200000	P	
34 S	45	1	-143.70 ug/l	0.00	11.89	200000	S	
34 S	45	2	-275.90 ug/l	0.00	7.21	200000	S	
39 K	45	1	0.43 ug/l	0.00	67.44	200000	K	
44 Ca	45	2	28.44 ug/l	0.00	1.23	200000	Ca	
47 Ti	72	2	0.57 ug/l	0.00	3.51	5000	Ti	
51 V	72	1	0.35 ug/l	0.00	4.14	2000	V	
52 Cr	72	1	0.13 ug/l	0.00	1.28	2000	Cr	
55 Mn	72	1	0.08 ug/l	0.00	10.97	5000	Mn	
57 Fe	72	1	5.85 ug/l	0.00	13.86	200000	Fe	
59 Co	72	1	0.00 ug/l	0.00	37.02	2000	Co	
60 Ni	72	1	0.12 ug/l	0.00	5.59	2000	Ni	
63 Cu	72	1	-0.10 ug/l	0.00	19.45	5000	Cu	
66 Zn	72	1	4.23 ug/l	0.00	0.20	5000	Zn	
75 As	72	1	0.22 ug/l	0.00	4.31	2000	As	
78 Se	72	1	0.13 ug/l	0.00	7.71	2000	Se	
88 Sr	72	2	0.06 ug/l	0.00	2.38	5000	Sr	
89 Y	72	1	-0.01 ug/l	0.00	18.93	2000	Y	
90 Zr	72	1	0.35 ug/l	0.00	9.09	2000	Zr	
93 Nb	72	1	3.11 ug/l	0.00	13.28	2000	Nb	
95 Mo	72	2	0.20 ug/l	0.00	4.13	2000	Mo	
101 Ru	72	1	0.00 ug/l	0.00	37.50	2000	Ru	
103 Rh	72	1	0.06 ug/l	0.00	6.77	2000	Rh	
105 Pd	72	1	0.00 ug/l	0.00	777.68	2000	Pd	
107 Ag	115	2	0.00 ug/l	0.00	298.41	400	Ag	
111 Cd	115	2	0.02 ug/l	0.00	12.72	2000	Cd	
118 Sn	115	2	0.18 ug/l	0.00	8.99	2000	Sn	
121 Sb	165	2	0.22 ug/l	0.00	1.28	1000	Sb	
125 Te	165	1	-0.01 ug/l	0.00	155.70	2000	Te	
133 Cs	165	1	-0.01 ug/l	0.00	80.91	2000	Cs	
137 Ba	165	2	0.12 ug/l	0.00	4.38	5000	Ba	
139 La	165	1	0.01 ug/l	0.00	24.47	2000	La	
140 Ce	165	1	0.00 ug/l	0.00	34.59	2000	Ce	
141 Pr	165	1	0.00 ug/l	0.00	18.18	2000	Pr	
146 Nd	165	1	0.00 ug/l	0.00	160.34	2000	Nd	
147 Sm	165	2	-0.01 ug/l	0.00	6.05	2000	Sm	
178 Hf	165	1	-0.02 ug/l	0.00	42.19	2000	HF	
181 Ta	165	1	0.15 ug/l	0.00	53.42	2000	Ta	
182 W	197	1	1.80 ug/l	0.00	14.58	2000	W	
195 Pt	197	1	0.01 ug/l	0.00	8.21	2000	Pt	
205 Tl	197	2	0.60 ug/l	0.00	6.61	2000	Tl	
206 (Pb)	197	2	0.09 ug/l	0.00	4.31	2000	(Pb)	
207 (Pb)	197	2	0.08 ug/l	0.00	19.49	2000	(Pb)	
208 Pb	197	2	0.08 ug/l	0.00	8.01	5000	Pb	
209 Bi	197	1	0.08 ug/l	0.00	11.94	2000	Bi	
232 Th	197	2	4.05 ug/l	0.00	3.40	2000	Th	
238 U	197	2	0.05 ug/l	0.00	11.82	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6939873	1.13	6939269	100.0	70 - 140	Li	
45 Sc	1	455953	0.48	481965	94.6	70 - 140	Sc	
45 Sc	2	7069808	0.04	7351212	96.2	70 - 140	Sc	
72 Ge	1	278044	0.29	284165	97.8	70 - 140	Ge	
72 Ge	2	1469675	0.59	1476622	99.5	70 - 140	Ge	
115 In	2	8609771	1.46	8960157	96.1	70 - 140	In	
165 Ho	1	6479854	1.03	6560437	98.8	70 - 140	Ho	
165 Ho	2	11719181	0.74	11869600	98.7	70 - 140	Ho	
197 Au	1	2093544	0.34	2238589	93.8	70 - 140	Au	
197 Au	2	2547780	1.16	2712431	93.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C.\ICPCHEM\2\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\113SMPL.D\113SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\113SMPL.D\113SMPL.D#
Date Acquired: Apr 14 2010 02:36 am
Operator:
Sample Name: LXAJ4
Misc Info:
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	20.42 ug/l	0.00	4.34	1000	Li	
9	Be	6	2	0.06 ug/l	0.00	40.09	1000	Be	
11	B	6	2	15.72 ug/l	0.00	7.62	2000	B	
23	Na	45	1	13300.00 ug/l	0.00	2.03	200000	Na	
24	Mg	45	1	5316.00 ug/l	0.00	1.92	200000	Mg	
27	Al	45	1	8.27 ug/l	0.00	4.01	200000	Al	
28	Si	45	2	24300.00 ug/l	0.00	7.34	200000	Si	
29	Si	45	2	23500.00 ug/l	0.00	6.60	200000	Si	
31	P	45	1	20.62 ug/l	0.00	2.18	200000	P	
34	S	45	1	3667.00 ug/l	0.00	5.07	200000	S	
34	S	45	2	2955.00 ug/l	0.00	22.42	200000	S	
39	K	45	1	2577.00 ug/l	0.00	0.95	200000	K	
44	Ca	45	2	21710.00 ug/l	0.00	5.95	200000	Ca	
47	Ti	72	2	1.81 ug/l	0.00	3.18	5000	Ti	
51	V	72	1	8.18 ug/l	0.00	0.43	2000	V	
52	Cr	72	1	2.79 ug/l	0.00	1.05	2000	Cr	
55	Mn	72	1	1.15 ug/l	0.00	2.18	5000	Mn	
57	Fe	72	1	52.05 ug/l	0.00	1.48	200000	Fe	
59	Co	72	1	0.26 ug/l	0.00	1.89	2000	Co	
60	Ni	72	1	0.16 ug/l	0.00	5.97	2000	Ni	
63	Cu	72	1	-0.11 ug/l	0.00	3.09	5000	Cu	
66	Zn	72	1	5.17 ug/l	0.00	1.18	5000	Zn	
75	As	72	1	1.34 ug/l	0.00	1.42	2000	As	
78	Se	72	1	0.97 ug/l	0.00	7.82	2000	Se	
88	Sr	72	2	133.60 ug/l	0.00	3.50	5000	Sr	
89	Y	72	1	0.00 ug/l	0.00	29.40	2000	Y	
90	Zr	72	1	0.83 ug/l	0.00	6.25	2000	Zr	
93	Nb	72	1	2.23 ug/l	0.00	15.86	2000	Nb	
95	Mo	72	2	0.91 ug/l	0.00	4.86	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	57.64	2000	Ru	
103	Rh	72	1	0.05 ug/l	0.00	10.34	2000	Rh	
105	Pd	72	1	0.01 ug/l	0.00	26.79	2000	Pd	
107	Ag	115	2	0.00 ug/l	0.00	92.54	400	Ag	
111	Cd	115	2	0.01 ug/l	0.00	36.12	2000	Cd	
118	Sn	115	2	-0.15 ug/l	0.00	43.14	2000	Sn	
121	Sb	165	2	0.07 ug/l	0.00	29.73	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	155.26	2000	Te	
133	Cs	165	1	0.00 ug/l	0.00	440.60	2000	Cs	
137	Ba	165	2	41.91 ug/l	0.00	4.81	5000	Ba	
139	La	165	1	0.00 ug/l	0.00	50.44	2000	La	
140	Ce	165	1	0.01 ug/l	0.00	10.01	2000	Ce	
141	Pr	165	1	0.00 ug/l	0.00	5.58	2000	Pr	
146	Nd	165	1	0.00 ug/l	0.00	43.33	2000	Nd	
147	Sm	165	2	-0.01 ug/l	0.00	12.10	2000	Sm	
178	Hf	165	1	0.05 ug/l	0.00	30.09	2000	Hf	
181	Ta	165	1	0.15 ug/l	0.00	40.09	2000	Ta	
182	W	197	1	1.08 ug/l	0.00	15.13	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	89.05	2000	Pt	
205	Tl	197	2	0.20 ug/l	0.00	18.21	2000	Tl	
206	(Pb)	197	2	0.01 ug/l	0.00	138.67	2000	(Pb)	
207	(Pb)	197	2	0.00 ug/l	0.00	478.38	2000	(Pb)	
208	Pb	197	2	0.01 ug/l	0.00	186.17	5000	Pb	
209	Bi	197	1	0.06 ug/l	0.00	3.09	2000	Bi	
232	Th	197	2	2.98 ug/l	0.00	1.92	2000	Th	
238	U	197	2	1.39 ug/l	0.00	3.41	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7720404	4.46	6939269	111.3	70 - 140	Li	
45	Sc	1	464580	1.60	481965	96.4	70 - 140	Sc	
45	Sc	2	8554927	5.69	7351212	116.4	70 - 140	Sc	
72	Ge	1	283191	1.04	284165	99.7	70 - 140	Ge	
72	Ge	2	1645752	2.51	1476622	111.5	70 - 140	Ge	
115	In	2	9760692	5.23	8960157	108.9	70 - 140	In	
165	Ho	1	6489884	0.42	6560437	98.9	70 - 140	Ho	
165	Ho	2	13406821	4.57	11869600	113.0	70 - 140	Ho	
197	Au	1	2027278	0.50	2238589	90.6	70 - 140	Au	
197	Au	2	2755797	3.83	2712431	101.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\114SMPL.D\114SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\114SMPL.D\114SMPL.D#
Date Acquired: Apr 14 2010 02:43 am
Operator:
Sample Name: LXAJ4V
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	4.50 ug/l	0.00	4.52	1000	Li	
9	Be	6	2	-0.01 ug/l	0.00	19.75	1000	Be	
11	B	6	2	1.34 ug/l	0.00	11.12	2000	B	
23	Na	45	1	2888.00 ug/l	0.00	0.34	200000	Na	
24	Mg	45	1	1207.00 ug/l	0.00	0.27	200000	Mg	
27	Al	45	1	0.47 ug/l	0.00	16.12	200000	Al	
28	Si	45	2	5713.00 ug/l	0.00	1.82	200000	Si	
29	Si	45	2	5628.00 ug/l	0.00	2.33	200000	Si	
31	P	45	1	4.71 ug/l	0.00	3.75	200000	P	
34	S	45	1	479.60 ug/l	0.00	12.68	200000	S	
34	S	45	2	291.80 ug/l	0.00	9.78	200000	S	
39	K	45	1	570.00 ug/l	0.00	0.33	200000	K	
44	Ca	45	2	5244.00 ug/l	0.00	0.70	200000	Ca	
47	Ti	72	2	0.31 ug/l	0.00	4.27	5000	Ti	
51	V	72	1	2.39 ug/l	0.00	0.63	2000	V	
52	Cr	72	1	1.01 ug/l	0.00	0.85	2000	Cr	
55	Mn	72	1	0.26 ug/l	0.00	4.19	5000	Mn	
57	Fe	72	1	10.06 ug/l	0.00	0.96	200000	Fe	
59	Co	72	1	0.06 ug/l	0.00	3.03	2000	Co	
60	Ni	72	1	0.23 ug/l	0.00	5.02	2000	Ni	
63	Cu	72	1	-0.26 ug/l	0.00	1.98	5000	Cu	
66	Zn	72	1	1.07 ug/l	0.00	4.83	5000	Zn	
75	As	72	1	0.37 ug/l	0.00	4.04	2000	As	
78	Se	72	1	0.17 ug/l	0.00	5.89	2000	Se	
88	Sr	72	2	31.88 ug/l	0.00	0.78	5000	Sr	
89	Y	72	1	-0.01 ug/l	0.00	17.61	2000	Y	
90	Zr	72	1	0.07 ug/l	0.00	19.80	2000	Zr	
93	Nb	72	1	0.81 ug/l	0.00	22.65	2000	Nb	
95	Mo	72	2	0.20 ug/l	0.00	2.93	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	39.39	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	66.90	2000	Rh	
105	Pd	72	1	0.00 ug/l	0.00	52.27	2000	Pd	
107	Ag	115	2	0.00 ug/l	0.00	12.91	400	Ag	
111	Cd	115	2	0.00 ug/l	0.00	105.35	2000	Cd	
118	Sn	115	2	-0.64 ug/l	0.00	3.04	2000	Sn	
121	Sb	165	2	-0.06 ug/l	0.00	12.97	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	502.53	2000	Te	
133	Cs	165	1	-0.01 ug/l	0.00	4.60	2000	Cs	
137	Ba	165	2	9.42 ug/l	0.00	2.65	5000	Ba	
139	La	165	1	0.00 ug/l	0.00	7.93	2000	La	
140	Ce	165	1	0.00 ug/l	0.00	17.52	2000	Ce	
141	Pr	165	1	-0.01 ug/l	0.00	8.38	2000	Pr	
146	Nd	165	1	0.00 ug/l	0.00	37.70	2000	Nd	
147	Sm	165	2	-0.01 ug/l	0.00	7.92	2000	Sm	
178	Hf	165	1	-0.06 ug/l	0.00	3.08	2000	Hf	
181	Ta	165	1	-0.06 ug/l	0.00	35.68	2000	Ta	
182	W	197	1	0.17 ug/l	0.00	62.59	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	168.26	2000	Pt	
205	Tl	197	2	0.05 ug/l	0.00	14.21	2000	Tl	
206	(Pb)	197	2	-0.04 ug/l	0.00	13.39	2000	(Pb)	
207	(Pb)	197	2	-0.04 ug/l	0.00	4.80	2000	(Pb)	
208	Pb	197	2	-0.05 ug/l	0.00	5.20	5000	Pb	
209	Bi	197	1	-0.01 ug/l	0.00	18.31	2000	Bi	
232	Th	197	2	0.07 ug/l	0.00	17.90	2000	Th	
238	U	197	2	0.29 ug/l	0.00	4.06	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6968492	0.82	6935269	100.4	70 - 140	Li	
45	Sc	1	466205	1.39	481965	96.7	70 - 140	Sc	
45	Sc	2	7305383	1.63	7351212	99.4	70 - 140	Sc	
72	Ge	1	275210	1.23	284165	96.8	70 - 140	Ge	
72	Ge	2	1475335	0.79	1476622	99.9	70 - 140	Ge	
115	In	2	8813257	0.54	8960157	98.4	70 - 140	In	
165	Ho	1	6483827	0.21	6560437	98.8	70 - 140	Ho	
165	Ho	2	12015581	2.12	11869600	101.2	70 - 140	Ho	
197	Au	1	2150930	1.56	2238589	96.1	70 - 140	Au	
197	Au	2	2638828	1.34	2712431	97.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\115SMPL.D\115SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\115SMPL.D\115SMPL.D#
Date Acquired: Apr 14 2010 02:51 am
Operator:
Sample Name: LXAJ4X
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	23.40 ug/l	0.00	1.64	1000	Li	
9	Be	6		2	0.00 ug/l	0.00	45.02	1000	Be	
11	B	6		2	16.51 ug/l	0.00	2.44	2000	B	
23	Na	45		1	13530.00 ug/l	0.00	1.47	200000	Na	
24	Mg	45		1	5426.00 ug/l	0.00	0.70	200000	Mg	
27	Al	45		1	7.52 ug/l	0.00	3.01	200000	Al	
28	Si	45		2	28800.00 ug/l	0.00	1.91	200000	Si	
29	Si	45		2	28000.00 ug/l	0.00	1.28	200000	Si	
31	P	45		1	21.70 ug/l	0.00	3.76	200000	P	
34	S	45		1	3760.00 ug/l	0.00	3.24	200000	S	
34	S	45		2	4390.00 ug/l	0.00	0.93	200000	S	
39	K	45		1	2604.00 ug/l	0.00	0.65	200000	K	
44	Ca	45		2	25670.00 ug/l	0.00	1.15	200000	Ca	
47	Ti	72		2	1.93 ug/l	0.00	1.91	5000	Ti	
51	V	72		1	8.92 ug/l	0.00	0.98	2000	V	
52	Cr	72		1	2.83 ug/l	0.00	1.89	2000	Cr	
55	Mn	72		1	0.82 ug/l	0.00	1.77	5000	Mn	
57	Fe	72		1	14.72 ug/l	0.00	2.33	200000	Fe	
59	Co	72		1	0.27 ug/l	0.00	3.16	2000	Co	
60	Ni	72		1	0.16 ug/l	0.00	3.72	2000	Ni	
63	Cu	72		1	-0.18 ug/l	0.00	3.81	5000	Cu	
66	Zn	72		1	2.72 ug/l	0.00	4.16	5000	Zn	
75	As	72		1	1.42 ug/l	0.00	2.43	2000	As	
78	Se	72		1	0.99 ug/l	0.00	9.44	2000	Se	
88	Sr	72		2	153.00 ug/l	0.00	0.65	5000	Sr	
89	Y	72		1	0.00 ug/l	0.00	473.59	2000	Y	
90	Zr	72		1	0.53 ug/l	0.00	7.12	2000	Zr	
93	Nb	72		1	1.23 ug/l	0.00	20.56	2000	Nb	
95	Mo	72		2	0.96 ug/l	0.00	1.03	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	51.01	2000	Ru	
103	Rh	72		1	0.05 ug/l	0.00	4.59	2000	Rh	
105	Pd	72		1	0.01 ug/l	0.00	12.09	2000	Pd	
107	Ag	115		2	0.00 ug/l	0.00	454.87	400	Ag	
111	Cd	115		2	0.01 ug/l	0.00	102.55	2000	Cd	
118	Sn	115		2	-0.15 ug/l	0.00	2.81	2000	Sn	
121	Sb	165		2	0.07 ug/l	0.00	11.77	1000	Sb	
125	Te	165		1	-0.01 ug/l	0.00	184.61	2000	Te	
133	Cs	165		1	0.00 ug/l	0.00	70.58	2000	Cs	
137	Ba	165		2	49.32 ug/l	0.00	0.72	5000	Ba	
139	La	165		1	0.00 ug/l	0.00	20.85	2000	La	
140	Ce	165		1	0.00 ug/l	0.00	27.81	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	13.71	2000	Pr	
146	Nd	165		1	0.00 ug/l	0.00	53.20	2000	Nd	
147	Sm	165		2	0.00 ug/l	0.00	18.09	2000	Sm	
178	Hf	165		1	0.05 ug/l	0.00	17.46	2000	Hf	
181	Ta	165		1	0.10 ug/l	0.00	65.50	2000	Ta	
182	W	197		1	0.44 ug/l	0.00	20.69	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	326.35	2000	Pt	
205	Tl	197		2	0.03 ug/l	0.00	27.63	2000	Tl	
206	(Pb)	197		2	0.03 ug/l	0.00	27.30	2000	(Pb)	
207	(Pb)	197		2	0.02 ug/l	0.00	15.80	2000	(Pb)	
208	Pb	197		2	0.02 ug/l	0.00	14.16	5000	Pb	
209	Bi	197		1	0.01 ug/l	0.00	51.13	2000	Bi	
232	Th	197		2	2.16 ug/l	0.00	2.23	2000	Th	
238	U	197		2	1.60 ug/l	0.00	2.76	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6944366	0.48	6939269	100.1	70 - 140	Li	
45	Sc	1	463865	0.43	481965	96.2	70 - 140	Sc	
45	Sc	2	7335405	0.88	7351212	99.8	70 - 140	Sc	
72	Ge	1	276267	0.78	284165	97.2	70 - 140	Ge	
72	Ge	2	1495269	0.23	1476622	101.3	70 - 140	Ge	
115	In	2	8626947	0.91	8960157	96.3	70 - 140	In	
165	Ho	1	6477351	0.72	6560437	98.7	70 - 140	Ho	
165	Ho	2	11756064	0.37	11869600	99.0	70 - 140	Ho	
197	Au	1	2007569	0.71	2238589	89.7	70 - 140	Au	
197	Au	2	2478750	0.93	2712431	91.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\116SMPL.D\116SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\116SMPL.D\116SMPL.D#
Date Acquired: Apr 14 2010 02:58 am
Operator:
Sample Name: LXAJ4S
Misc Info:
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	1061.00 ug/l	0.00	1.05	1000	Li	>LDR
9	Be	6		2	984.00 ug/l	0.00	1.40	1000	Be	
11	B	6		2	1079.00 ug/l	0.00	0.73	2000	B	
23	Na	45		1	22410.00 ug/l	0.00	0.61	200000	Na	
24	Mg	45		1	14780.00 ug/l	0.00	0.45	200000	Mg	
27	Al	45		1	9529.00 ug/l	0.00	1.58	200000	Al	
28	Si	45		2	26740.00 ug/l	0.00	0.66	200000	Si	
29	Si	45		2	26000.00 ug/l	0.00	0.18	200000	Si	
31	P	45		1	936.30 ug/l	0.00	1.22	200000	P	
34	S	45		1	12900.00 ug/l	0.00	1.31	200000	S	
34	S	45		2	13970.00 ug/l	0.00	0.87	200000	S	
39	K	45		1	11730.00 ug/l	0.00	0.91	200000	K	
44	Ca	45		2	34550.00 ug/l	0.00	0.78	200000	Ca	
47	Ti	72		2	998.60 ug/l	0.00	1.26	5000	Ti	
51	V	72		1	992.60 ug/l	0.00	1.17	2000	V	
52	Cr	72		1	990.00 ug/l	0.00	0.51	2000	Cr	
55	Mn	72		1	969.40 ug/l	0.00	1.99	5000	Mn	
57	Fe	72		1	10400.00 ug/l	0.00	1.68	200000	Fe	
59	Co	72		1	986.80 ug/l	0.00	0.89	2000	Co	
60	Ni	72		1	952.00 ug/l	0.00	1.02	2000	Ni	
63	Cu	72		1	941.20 ug/l	0.00	1.47	5000	Cu	
66	Zn	72		1	917.40 ug/l	0.00	1.28	5000	Zn	
75	As	72		1	963.30 ug/l	0.00	0.48	2000	As	
78	Se	72		1	916.80 ug/l	0.00	0.92	2000	Se	
88	Sr	72		2	1152.00 ug/l	0.00	1.17	5000	Sr	
89	Y	72		1	0.06 ug/l	0.00	3.78	2000	Y	
90	Zr	72		1	981.00 ug/l	0.00	2.00	2000	Zr	
93	Nb	72		1	969.70 ug/l	0.00	2.97	2000	Nb	
95	Mo	72		2	984.30 ug/l	0.00	0.84	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	174.76	2000	Ru	
103	Rh	72		1	0.09 ug/l	0.00	8.66	2000	Rh	
105	Pd	72		1	0.06 ug/l	0.00	8.00	2000	Pd	
107	Ag	115		2	98.34 ug/l	0.00	0.25	400	Ag	
111	Cd	115		2	943.80 ug/l	0.00	0.44	2000	Cd	
118	Sn	115		2	1016.00 ug/l	0.00	0.26	2000	Sn	
121	Sb	165		2	460.30 ug/l	0.00	1.41	1000	Sb	
125	Te	165		1	0.32 ug/l	0.00	15.02	2000	Te	
133	Cs	165		1	0.00 ug/l	0.00	5758.60	2000	Cs	
137	Ba	165		2	1011.00 ug/l	0.00	1.28	5000	Ba	
139	La	165		1	0.01 ug/l	0.00	11.79	2000	La	
140	Ce	165		1	0.01 ug/l	0.00	14.77	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	17.88	2000	Pr	
146	Nd	165		1	0.01 ug/l	0.00	54.00	2000	Nd	
147	Sm	165		2	960.60 ug/l	0.00	1.05	2000	Sm	
178	Hf	165		1	4.01 ug/l	0.00	7.10	2000	Hf	
181	Ta	165		1	5.85 ug/l	0.00	10.27	2000	Ta	
182	W	197		1	1076.00 ug/l	0.00	1.17	2000	W	
195	Pt	197		1	0.02 ug/l	0.00	8.75	2000	Pt	
205	Tl	197		2	1091.00 ug/l	0.00	0.59	2000	Tl	
206	(Pb)	197		2	1022.00 ug/l	0.00	1.79	2000	(Pb)	
207	(Pb)	197		2	1070.00 ug/l	0.00	0.32	2000	(Pb)	
208	Pb	197		2	1052.00 ug/l	0.00	0.55	5000	Pb	
209	Bi	197		1	1006.00 ug/l	0.00	0.56	2000	Bi	
232	Th	197		2	1110.00 ug/l	0.00	1.63	2000	Th	
238	U	197		2	1148.00 ug/l	0.00	1.73	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6279407	0.55	6939269	90.5	70 - 140	Li	
45	Sc	1	463739	0.75	481965	96.2	70 - 140	Sc	
45	Sc	2	7097804	0.98	7351212	96.6	70 - 140	Sc	
72	Ge	1	270410	1.01	284165	95.2	70 - 140	Ge	
72	Ge	2	1415241	1.63	1476622	95.8	70 - 140	Ge	
115	In	2	8297593	1.20	8960157	92.6	70 - 140	In	
165	Ho	1	6420400	0.93	6560437	97.9	70 - 140	Ho	
165	Ho	2	11641207	1.18	11869600	98.1	70 - 140	Ho	
197	Au	1	1975815	0.54	2238589	88.3	70 - 140	Au	
197	Au	2	2394395	0.86	2712431	88.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\117SMPL.D\117SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\117SMPL.D\117SMPL.D#
Date Acquired: Apr 14 2010 03:05 am
Operator:
Sample Name: LXAJ4A
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	69.96 ug/l	0.00	1.41	1000	Li	
9	Be	6		2	4.74 ug/l	0.00	2.42	1000	Be	
11	B	6		2	530.00 ug/l	0.00	1.58	2000	B	
23	Na	45		1	13530.00 ug/l	0.00	1.24	200000	Na	
24	Mg	45		1	5628.00 ug/l	0.00	0.67	200000	Mg	
27	Al	45		1	300.30 ug/l	0.00	0.59	200000	Al	
28	Si	45		2	29920.00 ug/l	0.00	0.37	200000	Si	
29	Si	45		2	29160.00 ug/l	0.00	1.11	200000	Si	
31	P	45		1	485.00 ug/l	0.00	1.50	200000	P	
34	S	45		1	3539.00 ug/l	0.00	2.96	200000	S	
34	S	45		2	3023.00 ug/l	0.00	1.31	200000	S	
39	K	45		1	3475.00 ug/l	0.00	0.15	200000	K	
44	Ca	45		2	25570.00 ug/l	0.00	0.39	200000	Ca	
47	Ti	72		2	51.47 ug/l	0.00	0.40	5000	Ti	
51	V	72		1	111.00 ug/l	0.00	0.53	2000	V	
52	Cr	72		1	106.40 ug/l	0.00	1.28	2000	Cr	
55	Mn	72		1	21.78 ug/l	0.00	0.92	5000	Mn	
57	Fe	72		1	676.30 ug/l	0.00	0.69	200000	Fe	
59	Co	72		1	21.08 ug/l	0.00	0.40	2000	Co	
60	Ni	72		1	50.10 ug/l	0.00	1.08	2000	Ni	
63	Cu	72		1	9.99 ug/l	0.00	0.43	5000	Cu	
66	Zn	72		1	51.78 ug/l	0.00	0.89	5000	Zn	
75	As	72		1	96.03 ug/l	0.00	0.71	2000	As	
78	Se	72		1	45.85 ug/l	0.00	0.92	2000	Se	
88	Sr	72		2	196.60 ug/l	0.00	0.54	5000	Sr	
89	Y	72		1	0.09 ug/l	0.00	135.99	2000	Y	
90	Zr	72		1	50.29 ug/l	0.00	1.51	2000	Zr	
93	Nb	72		1	15.23 ug/l	0.00	3.81	2000	Nb	
95	Mo	72		2	47.93 ug/l	0.00	0.39	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	25.30	2000	Ru	
103	Rh	72		1	0.04 ug/l	0.00	4.42	2000	Rh	
105	Pd	72		1	0.01 ug/l	0.00	16.06	2000	Pd	
107	Ag	115		2	19.36 ug/l	0.00	1.56	400	Ag	
111	Cd	115		2	4.76 ug/l	0.00	2.82	2000	Cd	
118	Sn	115		2	20.69 ug/l	0.00	0.54	2000	Sn	
121	Sb	165		2	45.80 ug/l	0.00	0.80	1000	Sb	
125	Te	165		1	0.00 ug/l	0.00	2033.40	2000	Te	
133	Cs	165		1	0.00 ug/l	0.00	1368.20	2000	Cs	
137	Ba	165		2	63.88 ug/l	0.00	2.54	5000	Ba	
139	La	165		1	0.01 ug/l	0.00	17.30	2000	La	
140	Ce	165		1	0.01 ug/l	0.00	3.77	2000	Ce	
141	Pr	165		1	0.00 ug/l	0.00	3.02	2000	Pr	
146	Nd	165		1	0.01 ug/l	0.00	74.49	2000	Nd	
147	Sm	165		2	93.84 ug/l	0.00	1.92	2000	Sm	
178	Hf	165		1	0.46 ug/l	0.00	20.13	2000	Hf	
181	Ta	165		1	1.27 ug/l	0.00	17.35	2000	Ta	
182	W	197		1	60.43 ug/l	0.00	0.48	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	32.59	2000	Pt	
205	Tl	197		2	23.03 ug/l	0.00	2.66	2000	Tl	
206	(Pb)	197		2	30.96 ug/l	0.00	1.58	2000	(Pb)	
207	(Pb)	197		2	30.52 ug/l	0.00	0.93	2000	(Pb)	
208	Pb	197		2	30.91 ug/l	0.00	0.78	5000	Pb	
209	Bi	197		1	0.07 ug/l	0.00	29.52	2000	Bi	
232	Th	197		2	33.10 ug/l	0.00	2.86	2000	Th	
238	U	197		2	12.23 ug/l	0.00	0.84	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6791030	1.68	6939269	97.9	70 - 140	Li	
45	Sc	1	453263	0.84	481965	94.0	70 - 140	Sc	
45	Sc	2	7215638	0.78	7351212	98.2	70 - 140	Sc	
72	Ge	1	270738	0.88	284165	95.3	70 - 140	Ge	
72	Ge	2	1454790	0.70	1476622	98.5	70 - 140	Ge	
115	In	2	8536097	1.03	8960157	95.3	70 - 140	In	
165	Ho	1	6407824	0.45	6560437	97.7	70 - 140	Ho	
165	Ho	2	11791997	1.45	11869600	99.3	70 - 140	Ho	
197	Au	1	1996019	0.34	2238589	89.2	70 - 140	Au	
197	Au	2	2483462	1.21	2712431	91.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\118SMPL.D\118SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\118SMPL.D\118SMPL.D#
Date Acquired: Apr 14 2010 03:12 am
Operator:
Sample Name: LXAJ7
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	24.02 ug/l	0.00	2.67	1000	Li	
9	Be	6	2	0.10 ug/l	0.00	1.56	1000	Be	
11	B	6	2	28.05 ug/l	0.00	0.81	2000	B	
23	Na	45	1	13610.00 ug/l	0.00	0.88	200000	Na	
24	Mg	45	1	5773.00 ug/l	0.00	1.24	200000	Mg	
27	Al	45	1	2450.00 ug/l	0.00	0.76	200000	Al	
28	Si	45	2	34500.00 ug/l	0.00	0.64	200000	Si	
29	Si	45	2	33470.00 ug/l	0.00	0.68	200000	Si	
31	P	45	1	92.45 ug/l	0.00	1.66	200000	P	
34	S	45	1	3432.00 ug/l	0.00	2.07	200000	S	
34	S	45	2	3434.00 ug/l	0.00	14.43	200000	S	
39	K	45	1	3150.00 ug/l	0.00	1.18	200000	K	
44	Ca	45	2	26280.00 ug/l	0.00	0.37	200000	Ca	
47	Ti	72	2	68.73 ug/l	0.00	0.92	5000	Ti	
51	V	72	1	13.07 ug/l	0.00	0.32	2000	V	
52	Cr	72	1	7.89 ug/l	0.00	0.17	2000	Cr	
55	Mn	72	1	18.87 ug/l	0.00	0.08	5000	Mn	
57	Fe	72	1	1424.00 ug/l	0.00	1.11	200000	Fe	
59	Co	72	1	0.69 ug/l	0.00	0.67	2000	Co	
60	Ni	72	1	1.29 ug/l	0.00	2.13	2000	Ni	
63	Cu	72	1	0.79 ug/l	0.00	1.88	5000	Cu	
66	Zn	72	1	6.64 ug/l	0.00	2.53	5000	Zn	
75	As	72	1	1.85 ug/l	0.00	2.63	2000	As	
78	Se	72	1	1.35 ug/l	0.00	9.99	2000	Se	
88	Sr	72	2	165.30 ug/l	0.00	0.72	5000	Sr	
89	Y	72	1	1.25 ug/l	0.00	0.94	2000	Y	
90	Zr	72	1	1.50 ug/l	0.00	3.22	2000	Zr	
93	Nb	72	1	2.11 ug/l	0.00	16.11	2000	Nb	
95	Mo	72	2	1.10 ug/l	0.00	3.92	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	54.28	2000	Ru	
103	Rh	72	1	0.04 ug/l	0.00	4.02	2000	Rh	
105	Pd	72	1	0.01 ug/l	0.00	16.59	2000	Pd	
107	Ag	115	2	0.01 ug/l	0.00	22.06	400	Ag	
111	Cd	115	2	0.04 ug/l	0.00	26.51	2000	Cd	
118	Sn	115	2	0.07 ug/l	0.00	34.99	2000	Sn	
121	Sb	165	2	0.36 ug/l	0.00	6.32	1000	Sb	
125	Te	165	1	-0.01 ug/l	0.00	573.65	2000	Te	
133	Cs	165	1	0.25 ug/l	0.00	4.48	2000	Cs	
137	Ba	165	2	78.02 ug/l	0.00	0.63	5000	Ba	
139	La	165	1	2.46 ug/l	0.00	1.34	2000	La	
140	Ce	165	1	4.78 ug/l	0.00	1.16	2000	Ce	
141	Pr	165	1	0.58 ug/l	0.00	1.97	2000	Pr	
146	Nd	165	1	2.24 ug/l	0.00	2.18	2000	Nd	
147	Sm	165	2	0.39 ug/l	0.00	2.85	2000	Sm	
178	Hf	165	1	0.00 ug/l	0.00	90.13	2000	Hf	
181	Ta	165	1	-0.03 ug/l	0.00	141.73	2000	Ta	
182	W	197	1	2.31 ug/l	0.00	10.18	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	52.49	2000	Pt	
205	Tl	197	2	0.41 ug/l	0.00	3.62	2000	Tl	
206	(Pb)	197	2	1.56 ug/l	0.00	0.53	2000	(Pb)	
207	(Pb)	197	2	1.43 ug/l	0.00	2.06	2000	(Pb)	
208	Pb	197	2	1.51 ug/l	0.00	0.43	5000	Pb	
209	Bi	197	1	0.02 ug/l	0.00	18.85	2000	Bi	
232	Th	197	2	3.30 ug/l	0.00	0.46	2000	Th	
238	U	197	2	2.58 ug/l	0.00	1.94	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6882593	0.62	6939269	99.2	70 - 140	Li	
45	Sc	1	454798	0.63	481965	94.4	70 - 140	Sc	
45	Sc	2	7296928	0.34	7351212	99.3	70 - 140	Sc	
72	Ge	1	265681	0.76	284165	93.5	70 - 140	Ge	
72	Ge	2	1460311	0.47	1476622	98.9	70 - 140	Ge	
115	In	2	8547100	1.02	8960157	95.4	70 - 140	In	
165	Ho	1	6371541	0.59	6560437	97.1	70 - 140	Ho	
165	Ho	2	11659806	0.57	11869600	98.2	70 - 140	Ho	
197	Au	1	2004563	0.46	2238589	89.6	70 - 140	Au	
197	Au	2	2438803	1.42	2712431	89.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\119_CCV.D\119_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\119_CCV.D\119_CCV.D#
Date Acquired: Apr 14 2010 03:19 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	97.19	ug/l	1.92	100	97.2	90 - 110	Li	
9	Be	6	2	96.82	ug/l	1.60	100	96.8	90 - 110	Be	
11	B	6	2	199.30	ug/l	2.22	200	99.7	90 - 110	B	
23	Na	45	1	1299.00	ug/l	1.62	1250	103.9	90 - 110	Na	
24	Mg	45	1	2576.00	ug/l	0.53	2500	103.0	90 - 110	Mg	
27	Al	45	1	1255.00	ug/l	0.02	1250	100.4	90 - 110	Al	
28	Si	45	2	1248.00	ug/l	1.52	1250	99.8	90 - 110	Si	
29	Si	45	2	1256.00	ug/l	1.50	1250	100.5	90 - 110	Si	
31	P	45	1	1234.00	ug/l	0.25	1250	98.7	90 - 110	P	
34	S	45	1	19020.00	ug/l	0.94	20000	95.1	90 - 110	S	
34	S	45	2	20130.00	ug/l	1.02	20000	100.7	90 - 110	S	
39	K	45	1	1247.00	ug/l	1.72	1250	99.8	90 - 110	K	
44	Ca	45	2	2544.00	ug/l	0.57	2500	101.8	90 - 110	Ca	
47	Ti	72	2	97.93	ug/l	1.10	100	97.9	90 - 110	Ti	
51	V	72	1	105.40	ug/l	1.43	100	105.4	90 - 110	V	
52	Cr	72	1	104.70	ug/l	0.86	100	104.7	90 - 110	Cr	
55	Mn	72	1	103.60	ug/l	1.19	100	103.6	90 - 110	Mn	
57	Fe	72	1	2602.00	ug/l	0.77	2500	104.1	90 - 110	Fe	
59	Co	72	1	105.60	ug/l	1.24	100	105.6	90 - 110	Co	
60	Ni	72	1	103.20	ug/l	0.56	100	103.2	90 - 110	Ni	
63	Cu	72	1	105.20	ug/l	0.82	100	105.2	90 - 110	Cu	
66	Zn	72	1	101.40	ug/l	0.51	100	101.4	90 - 110	Zn	
75	As	72	1	102.00	ug/l	0.60	100	102.0	90 - 110	As	
78	Se	72	1	102.40	ug/l	0.59	100	102.4	90 - 110	Se	
88	Sr	72	2	99.29	ug/l	1.94	100	99.3	90 - 110	Sr	
89	Y	72	1	105.50	ug/l	0.66	100	105.5	90 - 110	Y	
90	Zr	72	1	101.30	ug/l	1.31	100	101.3	90 - 110	Zr	
93	Nb	72	1	54.07	ug/l	0.25	50	108.1	90 - 110	Nb	
95	Mo	72	2	96.97	ug/l	1.05	100	97.0	90 - 110	Mo	
101	Ru	72	1	105.10	ug/l	0.43	100	105.1	90 - 110	Ru	
103	Rh	72	1	107.10	ug/l	0.11	100	107.1	90 - 110	Rh	
105	Pd	72	1	10.42	ug/l	1.10	10	104.2	90 - 110	Pd	
107	Ag	115	2	19.84	ug/l	1.78	20	99.2	90 - 110	Ag	
111	Cd	115	2	97.17	ug/l	1.53	100	97.2	90 - 110	Cd	
118	Sn	115	2	99.66	ug/l	1.52	100	99.7	90 - 110	Sn	
121	Sb	165	2	48.60	ug/l	1.36	50	97.2	90 - 110	Sb	
125	Te	165	1	98.02	ug/l	2.18	100	98.0	90 - 110	Te	
133	Cs	165	1	97.52	ug/l	0.31	100	97.5	90 - 110	Cs	
137	Ba	165	2	97.21	ug/l	1.52	100	97.2	90 - 110	Ba	
139	La	165	1	100.40	ug/l	1.26	100	100.4	90 - 110	La	
140	Ce	165	1	101.60	ug/l	1.78	100	101.6	90 - 110	Ce	
141	Pr	165	1	100.30	ug/l	1.11	100	100.3	90 - 110	Pr	
146	Nd	165	1	98.14	ug/l	1.88	100	98.1	90 - 110	Nd	
147	Sm	165	2	97.10	ug/l	2.62	100	97.1	90 - 110	Sm	
178	Hf	165	1	84.53	ug/l	1.64	100	84.5	90 - 110	Hf	Fail
181	Ta	165	1	97.37	ug/l	2.38	100	97.4	90 - 110	Ta	
182	W	197	1	95.54	ug/l	1.71	100	95.5	90 - 110	W	
195	Pt	197	1	9.79	ug/l	1.83	10	97.9	90 - 110	Pt	
205	Tl	197	2	100.20	ug/l	0.40	100	100.2	90 - 110	Tl	
206	(Pb)	197	2	101.40	ug/l	0.89	100	101.4	90 - 110	(Pb)	
207	(Pb)	197	2	99.11	ug/l	1.43	100	99.1	90 - 110	(Pb)	
208	Pb	197	2	100.00	ug/l	1.09	100	100.0	90 - 110	Pb	
209	Bi	197	1	101.00	ug/l	0.94	100	101.0	90 - 110	Bi	
232	Th	197	2	92.39	ug/l	2.25	100	92.4	90 - 110	Th	
238	U	197	2	98.86	ug/l	1.56	100	98.9	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6917089	0.77	6939269	99.7	70 - 140	Li	
45	Sc	1	447460	0.67	481965	92.8	70 - 140	Sc	
45	Sc	2	7065181	0.70	7351212	96.1	70 - 140	Sc	
72	Ge	1	270407	0.30	284165	95.2	70 - 140	Ge	
72	Ge	2	1439409	1.82	1476622	97.5	70 - 140	Ge	
115	In	2	8680512	0.76	8960157	96.9	70 - 140	In	
165	Ho	1	6412996	1.27	6560437	97.8	70 - 140	Ho	
165	Ho	2	11714735	0.66	11869600	98.7	70 - 140	Ho	
197	Au	1	2189967	1.61	2238589	97.8	70 - 140	Au	
197	Au	2	2647286	0.91	2712431	97.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\120_CCB.D\120_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\120_CCB.D\120_CCB.D#
Date Acquired: Apr 14 2010 03:27 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.073	ug/l	318.88	1.35	Li	
9 Be	6	2	0.006	ug/l	9.39	0.23	Be	
11 B	6	2	2.902	ug/l	11.84	14.94	B	
23 Na	45	1	4.171	ug/l	8.86	10.60	Na	
24 Mg	45	1	0.155	ug/l	53.35	3.46	Mg	
27 Al	45	1	-1.590	ug/l	3.03	8.94	Al	
28 Si	45	2	-1.415	ug/l	2.30	35.60	Si	
29 Si	45	2	-1.894	ug/l	40.20	35.60	Si	
31 P	45	1	0.562	ug/l	125.84	16.46	P	
34 S	45	1	-542.000	ug/l	7.97	666.00	S	
34 S	45	2	-667.800	ug/l	3.43	666.00	S	FAIL
39 K	45	1	-2.713	ug/l	12.97	16.66	K	
44 Ca	45	2	-0.766	ug/l	26.71	97.40	Ca	
47 Ti	72	2	0.237	ug/l	4.54	1.15	Ti	
51 V	72	1	0.745	ug/l	5.35	4.74	V	
52 Cr	72	1	0.018	ug/l	15.02	6.52	Cr	
55 Mn	72	1	0.005	ug/l	136.90	0.47	Mn	
57 Fe	72	1	1.999	ug/l	45.76	40.70	Fe	
59 Co	72	1	0.006	ug/l	76.91	0.43	Co	
60 Ni	72	1	0.005	ug/l	157.38	0.46	Ni	
63 Cu	72	1	-0.071	ug/l	12.23	0.19	Cu	
66 Zn	72	1	-0.049	ug/l	50.55	7.48	Zn	
75 As	72	1	0.184	ug/l	6.52	1.89	As	
78 Se	72	1	0.257	ug/l	29.20	0.62	Se	
88 Sr	72	2	0.004	ug/l	40.21	0.23	Sr	
89 Y	72	1	0.006	ug/l	29.36	0.42	Y	
90 Zr	72	1	0.092	ug/l	6.05	0.50	Zr	
93 Nb	72	1	1.487	ug/l	20.26	4.46	Nb	
95 Mo	72	2	0.277	ug/l	8.15	0.43	Mo	
101 Ru	72	1	0.005	ug/l	133.21	2.00	Ru	
103 Rh	72	1	0.006	ug/l	37.17	1.63	Rh	
105 Pd	72	1	0.002	ug/l	60.36	0.08	Pd	
107 Ag	115	2	0.002	ug/l	30.12	0.08	Ag	
111 Cd	115	2	0.015	ug/l	19.62	0.11	Cd	
118 Sn	115	2	-0.323	ug/l	14.15	0.30	Sn	FAIL
121 Sb	165	2	-0.040	ug/l	22.67	2.24	Sb	
125 Te	165	1	0.228	ug/l	13.48	1.07	Te	
133 Cs	165	1	0.048	ug/l	24.24	0.11	Cs	
137 Ba	165	2	-0.005	ug/l	84.81	0.39	Ba	
139 La	165	1	0.005	ug/l	40.97	0.10	La	
140 Ce	165	1	0.006	ug/l	39.48	1.77	Ce	
141 Pr	165	1	0.006	ug/l	58.09	0.08	Pr	
146 Nd	165	1	0.006	ug/l	26.23	0.21	Nd	
147 Sm	165	2	0.005	ug/l	60.36	0.65	Sm	
178 Hf	165	1	0.211	ug/l	3.19	2.26	Hf	
181 Ta	165	1	0.053	ug/l	91.68	1.46	Ta	
182 W	197	1	1.849	ug/l	12.33	1.68	W	FAIL
195 Pt	197	1	0.000	ug/l	421.76	0.12	Pt	
205 Tl	197	2	0.614	ug/l	6.81	1.10	Tl	
206 (Pb)	197	2	-0.028	ug/l	18.01	2.00	(Pb)	
207 (Pb)	197	2	-0.031	ug/l	14.96	2.00	(Pb)	
208 Pb	197	2	-0.033	ug/l	5.59	0.35	Pb	
209 Bi	197	1	-0.005	ug/l	50.60	1.46	Bi	
232 Th	197	2	1.575	ug/l	5.34	1.10	Th	FAIL
238 U	197	2	0.058	ug/l	12.28	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6853827	1.68	6939269	98.8	70 - 140	Li	
45 Sc	1	454619	0.29	481953	94.3	70 - 140	Sc	
45 Sc	2	7056100	0.30	7351212	96.0	70 - 140	Sc	
72 Ge	1	265690	0.63	284165	93.5	70 - 140	Ge	
72 Ge	2	1398820	0.77	1476622	94.7	70 - 140	Ge	
115 In	2	8624605	0.70	8960157	96.3	70 - 140	In	
165 Ho	1	6452236	1.10	6560437	98.4	70 - 140	Ho	
165 Ho	2	11672825	1.11	11869600	98.3	70 - 140	Ho	
197 Au	1	2169932	1.77	2238589	96.9	70 - 140	Au	
197 Au	2	2666730	1.26	2712431	98.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

4 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\1215MPL.D\1215MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1215MPL.D\1215MPL.D#
Date Acquired: Apr 14 2010 03:34 am
Operator:
Sample Name: LXAJ75
Misc Info:
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	24.91 ug/l	0.00	1.11	1000	Li	
9	Be	6		2	0.11 ug/l	0.00	4.68	1000	Be	
11	B	6		2	21.93 ug/l	0.00	0.57	2000	B	
23	Na	45		1	14290.00 ug/l	0.00	0.74	200000	Na	
24	Mg	45		1	6006.00 ug/l	0.00	0.70	200000	Mg	
27	Al	45		1	3605.00 ug/l	0.00	1.15	200000	Al	
28	Si	45		2	38230.00 ug/l	0.00	1.62	200000	Si	
29	Si	45		2	37230.00 ug/l	0.00	0.72	200000	Si	
31	P	45		1	101.70 ug/l	0.00	1.12	200000	P	
34	S	45		1	3625.00 ug/l	0.00	2.65	200000	S	
34	S	45		2	3264.00 ug/l	0.00	1.94	200000	S	
39	K	45		1	3551.00 ug/l	0.00	0.79	200000	K	
44	Ca	45		2	27210.00 ug/l	0.00	1.28	200000	Ca	
47	Ti	72		2	87.51 ug/l	0.00	0.62	5000	Ti	
51	V	72		1	14.28 ug/l	0.00	0.99	2000	V	
52	Cr	72		1	8.75 ug/l	0.00	1.16	2000	Cr	
55	Mn	72		1	20.58 ug/l	0.00	0.35	5000	Mn	
57	Fe	72		1	1642.00 ug/l	0.00	0.81	200000	Fe	
59	Co	72		1	0.74 ug/l	0.00	1.12	2000	Co	
60	Ni	72		1	1.47 ug/l	0.00	1.64	2000	Ni	
63	Cu	72		1	0.96 ug/l	0.00	1.25	5000	Cu	
66	Zn	72		1	6.08 ug/l	0.00	1.07	5000	Zn	
75	As	72		1	41.26 ug/l	0.00	0.42	2000	As	
78	Se	72		1	10.84 ug/l	0.00	0.82	2000	Se	
88	Sr	72		2	172.60 ug/l	0.00	0.71	5000	Sr	
89	Y	72		1	1.42 ug/l	0.00	3.26	2000	Y	
90	Zr	72		1	8.61 ug/l	0.00	5.80	2000	Zr	
93	Nb	72		1	6.16 ug/l	0.00	11.74	2000	Nb	
95	Mo	72		2	0.98 ug/l	0.00	0.33	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	30.18	2000	Ru	
103	Rh	72		1	0.04 ug/l	0.00	5.30	2000	Rh	
105	Pd	72		1	0.01 ug/l	0.00	5.58	2000	Pd	
107	Ag	115		2	0.01 ug/l	0.00	26.22	400	Ag	
111	Cd	115		2	5.04 ug/l	0.00	0.85	2000	Cd	
118	Sn	115		2	0.37 ug/l	0.00	13.37	2000	Sn	
121	Sb	165		2	97.48 ug/l	0.00	1.52	1000	Sb	
125	Te	165		1	0.08 ug/l	0.00	51.14	2000	Te	
133	Cs	165		1	0.33 ug/l	0.00	3.09	2000	Cs	
137	Ba	165		2	87.45 ug/l	0.00	0.63	5000	Ba	
139	La	165		1	2.72 ug/l	0.00	1.13	2000	La	
140	Ce	165		1	5.41 ug/l	0.00	0.58	2000	Ce	
141	Pr	165		1	0.66 ug/l	0.00	0.74	2000	Pr	
146	Nd	165		1	2.50 ug/l	0.00	0.77	2000	Nd	
147	Sm	165		2	0.44 ug/l	0.00	2.02	2000	Sm	
178	Hf	165		1	8.13 ug/l	0.00	16.55	2000	Hf	
181	Ta	165		1	2.61 ug/l	0.00	8.01	2000	Ta	
182	W	197		1	1.34 ug/l	0.00	16.60	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	25.02	2000	Pt	
205	Tl	197		2	59.52 ug/l	0.00	0.82	2000	Tl	
206	(Pb)	197		2	24.28 ug/l	0.00	1.33	2000	(Pb)	
207	(Pb)	197		2	23.10 ug/l	0.00	1.99	2000	(Pb)	
208	Pb	197		2	24.05 ug/l	0.00	1.95	5000	Pb	
209	Bi	197		1	0.24 ug/l	0.00	1.44	2000	Bi	
232	Th	197		2	13.12 ug/l	0.00	5.68	2000	Th	
238	U	197		2	2.60 ug/l	0.00	2.08	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6948857	1.02	6939269	100.1	70 - 140	Li	
45	Sc	1	449503	0.33	481965	93.3	70 - 140	Sc	
45	Sc	2	7261518	0.29	7351212	98.8	70 - 140	Sc	
72	Ge	1	268286	0.52	284165	94.4	70 - 140	Ge	
72	Ge	2	1466346	0.24	1476622	99.3	70 - 140	Ge	
115	In	2	8455733	0.97	8960157	94.4	70 - 140	In	
165	Ho	1	6351451	0.07	6560437	96.8	70 - 140	Ho	
165	Ho	2	11628184	1.24	11869600	98.0	70 - 140	Ho	
197	Au	1	1986905	0.64	2238589	88.8	70 - 140	Au	
197	Au	2	2433957	1.46	2712431	89.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\122SMPL.D\122SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\122SMPL.D\122SMPL.D#
Date Acquired: Apr 14 2010 03:41 am
Operator:
Sample Name: LXAJ8
Misc Info:
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7	Li	6		2	24.39 ug/l	0.00	1.09	1000	Li
9	Be	6		2	0.00 ug/l	0.00	201.45	1000	Be
11	B	6		2	18.38 ug/l	0.00	0.95	2000	B
23	Na	45		1	13030.00 ug/l	0.00	10.30	200000	Na
24	Mg	45		1	4136.00 ug/l	0.00	10.17	200000	Mg
27	Al	45		1	51.10 ug/l	0.00	11.16	200000	Al
28	Si	45		2	28650.00 ug/l	0.00	2.28	200000	Si
29	Si	45		2	28010.00 ug/l	0.00	2.86	200000	Si
31	P	45		1	16.18 ug/l	0.00	18.65	200000	P
34	S	45		1	2615.00 ug/l	0.00	18.21	200000	S
34	S	45		2	2518.00 ug/l	0.00	4.21	200000	S
39	K	45		1	2482.00 ug/l	0.00	10.52	200000	K
44	Ca	45		2	21680.00 ug/l	0.00	0.54	200000	Ca
47	Ti	72		2	3.71 ug/l	0.00	0.57	5000	Ti
51	V	72		1	11.30 ug/l	0.00	6.62	2000	V
52	Cr	72		1	3.50 ug/l	0.00	7.77	2000	Cr
55	Mn	72		1	0.82 ug/l	0.00	6.88	5000	Mn
57	Fe	72		1	52.77 ug/l	0.00	11.30	200000	Fe
59	Co	72		1	0.01 ug/l	0.00	5.91	2000	Co
60	Ni	72		1	0.15 ug/l	0.00	7.49	2000	Ni
63	Cu	72		1	-0.17 ug/l	0.00	8.56	5000	Cu
66	Zn	72		1	2.41 ug/l	0.00	10.71	5000	Zn
75	As	72		1	1.91 ug/l	0.00	8.29	2000	As
78	Se	72		1	1.03 ug/l	0.00	14.50	2000	Se
88	Sr	72		2	129.70 ug/l	0.00	0.71	5000	Sr
89	Y	72		1	0.03 ug/l	0.00	8.04	2000	Y
90	Zr	72		1	0.08 ug/l	0.00	14.93	2000	Zr
93	Nb	72		1	0.45 ug/l	0.00	47.38	2000	Nb
95	Mo	72		2	1.11 ug/l	0.00	1.39	2000	Mo
101	Ru	72		1	0.00 ug/l	0.00	53.24	2000	Ru
103	Rh	72		1	0.02 ug/l	0.00	14.04	2000	Rh
105	Pd	72		1	0.01 ug/l	0.00	34.86	2000	Pd
107	Ag	115		2	0.00 ug/l	0.00	14.38	400	Ag
111	Cd	115		2	0.00 ug/l	0.00	102.34	2000	Cd
118	Sn	115		2	-0.21 ug/l	0.00	11.69	2000	Sn
121	Sb	165		2	0.04 ug/l	0.00	24.07	1000	Sb
125	Te	165		1	0.00 ug/l	0.00	3553.20	2000	Te
133	Cs	165		1	0.01 ug/l	0.00	17.72	2000	Cs
137	Ba	165		2	40.27 ug/l	0.00	1.33	5000	Ba
139	La	165		1	0.04 ug/l	0.00	14.90	2000	La
140	Ce	165		1	0.09 ug/l	0.00	12.22	2000	Ce
141	Pr	165		1	0.01 ug/l	0.00	21.97	2000	Pr
146	Nd	165		1	0.03 ug/l	0.00	6.23	2000	Nd
147	Sm	165		2	0.00 ug/l	0.00	38.43	2000	Sm
178	Hf	165		1	0.03 ug/l	0.00	46.58	2000	Hf
181	Ta	165		1	-0.02 ug/l	0.00	297.26	2000	Ta
182	W	197		1	0.64 ug/l	0.00	27.24	2000	W
195	Pt	197		1	0.00 ug/l	0.00	14.40	2000	Pt
205	Tl	197		2	0.45 ug/l	0.00	1.64	2000	Tl
206	(Pb)	197		2	0.06 ug/l	0.00	11.65	2000	(Pb)
207	(Pb)	197		2	0.06 ug/l	0.00	2.47	2000	(Pb)
208	Pb	197		2	0.06 ug/l	0.00	13.92	5000	Pb
209	Bi	197		1	-0.02 ug/l	0.00	5.63	2000	Bi
232	Th	197		2	0.59 ug/l	0.00	5.05	2000	Th
238	U	197		2	1.46 ug/l	0.00	2.60	2000	U

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6850558	0.43	6939269	98.7	70 - 140	Li	
45	Sc	1	481755	10.56	481965	100.0	70 - 140	Sc	
45	Sc	2	7382955	1.07	7351212	100.4	70 - 140	Sc	
72	Ge	1	280025	7.27	284165	98.5	70 - 140	Ge	
72	Ge	2	2446575	0.85	1476622	98.0	70 - 140	Ge	
115	In	2	8523794	1.99	8960157	95.1	70 - 140	In	
165	Ho	1	6719966	9.11	6560437	102.4	70 - 140	Ho	
165	Ho	2	11751245	1.40	11869600	99.0	70 - 140	Ho	
197	Au	1	2091692	7.56	2238589	93.4	70 - 140	Au	
197	Au	2	2428649	1.55	2712431	89.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\123SMPL.D\123SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\123SMPL.D\123SMPL.D#
Date Acquired: Apr 14 2010 03:49 am
Operator:
Sample Name: LXA79
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6	2	23.96 ug/l	0.00	6.67	1000	Li	
9 Be	6	2	0.00 ug/l	0.00	47.71	1000	Be	
11 B	6	2	16.66 ug/l	0.00	9.81	2000	B	
23 Na	45	1	12910.00 ug/l	0.00	2.78	200000	Na	
24 Mg	45	1	4136.00 ug/l	0.00	3.09	200000	Mg	
27 Al	45	1	2.33 ug/l	0.00	6.08	200000	Al	
28 Si	45	2	28530.00 ug/l	0.00	5.97	200000	Si	
29 Si	45	2	27820.00 ug/l	0.00	6.38	200000	Si	
31 P	45	1	13.42 ug/l	0.00	7.74	200000	P	
34 S	45	1	2765.00 ug/l	0.00	4.15	200000	S	
34 S	45	2	2736.00 ug/l	0.00	9.58	200000	S	
39 K	45	1	2505.00 ug/l	0.00	2.39	200000	K	
44 Ca	45	2	21530.00 ug/l	0.00	5.52	200000	Ca	
47 Ti	72	2	1.74 ug/l	0.00	8.74	5000	Ti	
51 V	72	1	11.18 ug/l	0.00	1.35	2000	V	
52 Cr	72	1	3.18 ug/l	0.00	1.63	2000	Cr	
55 Mn	72	1	0.40 ug/l	0.00	0.12	5000	Mn	
57 Fe	72	1	7.85 ug/l	0.00	5.05	200000	Fe	
59 Co	72	1	0.23 ug/l	0.00	3.43	2000	Co	
60 Ni	72	1	0.24 ug/l	0.00	5.65	2000	Ni	
63 Cu	72	1	-0.18 ug/l	0.00	2.20	5000	Cu	
66 Zn	72	1	3.10 ug/l	0.00	1.20	5000	Zn	
75 As	72	1	1.85 ug/l	0.00	4.22	2000	As	
78 Se	72	1	1.20 ug/l	0.00	14.95	2000	Se	
88 Sr	72	2	125.50 ug/l	0.00	4.46	5000	Sr	
89 Y	72	1	0.00 ug/l	0.00	125.93	2000	Y	
90 Zr	72	1	0.04 ug/l	0.00	18.44	2000	Zr	
93 Nb	72	1	0.34 ug/l	0.00	39.88	2000	Nb	
95 Mo	72	2	1.05 ug/l	0.00	5.34	2000	Mo	
101 Ru	72	1	-0.01 ug/l	0.00	25.34	2000	Ru	
103 Rh	72	1	0.02 ug/l	0.00	20.47	2000	Rh	
105 Pd	72	1	0.01 ug/l	0.00	17.58	2000	Pd	
107 Ag	115	2	0.00 ug/l	0.00	2864.30	600	Ag	
111 Cd	115	2	0.01 ug/l	0.00	90.36	2000	Cd	
118 Sn	115	2	-0.29 ug/l	0.00	30.31	2000	Sn	
121 Sb	165	2	0.03 ug/l	0.00	35.75	1000	Sb	
125 Te	165	1	-0.01 ug/l	0.00	773.36	2000	Te	
133 Cs	165	1	0.00 ug/l	0.00	128.83	2000	Cs	
137 Ba	165	2	38.69 ug/l	0.00	6.01	5000	Ba	
139 La	165	1	0.00 ug/l	0.00	87.82	2000	La	
140 Ce	165	1	0.00 ug/l	0.00	48.71	2000	Ce	
141 Pr	165	1	0.00 ug/l	0.00	5.53	2000	Pr	
146 Nd	165	1	0.00 ug/l	0.00	69.40	2000	Nd	
147 Sm	165	2	0.00 ug/l	0.00	30.11	2000	Sm	
178 Hf	165	1	0.00 ug/l	0.00	342.28	2000	Hf	
181 Ta	165	1	-0.05 ug/l	0.00	96.99	2000	Ta	
182 W	197	1	0.51 ug/l	0.00	15.95	2000	W	
195 Pt	197	1	0.00 ug/l	0.00	2206.60	2000	Pt	
205 Tl	197	2	0.16 ug/l	0.00	11.91	2000	Tl	
206 (Pb)	197	2	0.02 ug/l	0.00	51.38	2000	(Pb)	
207 (Pb)	197	2	0.01 ug/l	0.00	326.70	2000	(Pb)	
208 Pb	197	2	0.01 ug/l	0.00	158.45	5000	Pb	
209 Bi	197	1	-0.02 ug/l	0.00	12.41	2000	Bi	
232 Th	197	2	0.36 ug/l	0.00	9.91	2000	Th	
238 U	197	2	1.36 ug/l	0.00	5.72	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6725484	5.35	6939269	96.9	70 - 140	Li	
45 Sc	1	453934	1.57	481965	94.2	70 - 140	Sc	
45 Sc	2	6988573	4.83	7351212	95.1	70 - 140	Sc	
72 Ge	1	268528	0.80	284165	94.5	70 - 140	Ge	
72 Ge	2	1413773	4.15	1476622	95.7	70 - 140	Ge	
115 In	2	8187458	6.90	8960157	91.4	70 - 140	In	
165 Ho	1	6470249	2.07	6560437	98.6	70 - 140	Ho	
165 Ho	2	11299446	4.99	11863600	95.2	70 - 140	Ho	
197 Au	1	2030718	0.26	2238589	90.7	70 - 140	Au	
197 Au	2	2374009	5.38	2712431	87.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\1249MPL.D\1249MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1249MPL.D\1249MPL.D#
Date Acquired: Apr 14 2010 03:56 am
Operator:
Sample Name: LXDA0
Misc Info:
Vial Number: 3202
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7 Li	6	2	0.39 ug/l	0.00	45.68	1000	Li
9 Be	6	2	-0.01 ug/l	0.00	27.12	1000	Be
11 B	6	2	7.79 ug/l	0.00	5.94	2000	B
23 Na	45	1	322.20 ug/l	0.00	0.53	200000	Na
24 Mg	45	1	8.72 ug/l	0.00	3.72	200000	Mg
27 Al	45	1	12.04 ug/l	0.00	2.35	200000	Al
28 Si	45	2	1947.00 ug/l	0.00	1.30	200000	Si
29 Si	45	2	1978.00 ug/l	0.00	1.70	200000	Si
31 P	45	1	4.26 ug/l	0.00	9.98	200000	P
34 S	45	1	-287.00 ug/l	0.00	10.88	200000	S
34 S	45	2	-277.50 ug/l	0.00	7.33	200000	S
39 K	45	1	339.80 ug/l	0.00	1.06	200000	K
44 Ca	45	2	74.32 ug/l	0.00	2.14	200000	Ca
47 Ti	72	2	0.31 ug/l	0.00	3.46	5000	Ti
51 V	72	1	2.03 ug/l	0.00	3.45	2000	V
52 Cr	72	1	0.35 ug/l	0.00	1.67	2000	Cr
55 Mn	72	1	0.48 ug/l	0.00	2.26	5000	Mn
57 Fe	72	1	36.57 ug/l	0.00	0.79	200000	Fe
59 Co	72	1	0.01 ug/l	0.00	14.82	2000	Co
60 Ni	72	1	0.28 ug/l	0.00	9.79	2000	Ni
63 Cu	72	1	0.47 ug/l	0.00	2.21	5000	Cu
66 Zn	72	1	4.29 ug/l	0.00	2.74	5000	Zn
75 As	72	1	0.40 ug/l	0.00	0.57	2000	As
78 Se	72	1	0.00 ug/l	0.00	1741.20	2000	Se
88 Sr	72	2	0.23 ug/l	0.00	1.43	5000	Sr
89 Y	72	1	0.01 ug/l	0.00	12.92	2000	Y
90 Zr	72	1	0.03 ug/l	0.00	35.31	2000	Zr
93 Nb	72	1	0.19 ug/l	0.00	59.23	2000	Nb
95 Mo	72	2	0.00 ug/l	0.00	304.63	2000	Mo
101 Ru	72	1	0.00 ug/l	0.00	39.94	2000	Ru
103 Rh	72	1	0.02 ug/l	0.00	2.34	2000	Rh
105 Pd	72	1	0.00 ug/l	0.00	53.98	2000	Pd
107 Ag	115	2	0.00 ug/l	0.00	162.91	400	Ag
111 Cd	115	2	0.01 ug/l	0.00	57.39	2000	Cd
118 Sn	115	2	-0.35 ug/l	0.00	4.37	2000	Sn
121 Sb	165	2	0.02 ug/l	0.00	29.17	1000	Sb
125 Te	165	1	-0.01 ug/l	0.00	430.01	2000	Te
133 Cs	165	1	0.00 ug/l	0.00	43.92	2000	Cs
137 Ba	165	2	1.44 ug/l	0.00	3.12	5000	Ba
139 La	165	1	0.03 ug/l	0.00	4.93	2000	La
140 Ce	165	1	0.05 ug/l	0.00	2.35	2000	Ce
141 Pr	165	1	0.00 ug/l	0.00	82.98	2000	Pr
146 Nd	165	1	0.03 ug/l	0.00	9.21	2000	Nd
147 Sm	165	2	0.00 ug/l	0.00	46.16	2000	Sm
178 Hf	165	1	-0.04 ug/l	0.00	7.36	2000	Hf
181 Ta	165	1	-0.08 ug/l	0.00	56.95	2000	Ta
182 W	197	1	0.03 ug/l	0.00	197.37	2000	W
195 Pt	197	1	0.00 ug/l	0.00	25.29	2000	Pt
205 Tl	197	2	0.03 ug/l	0.00	46.12	2000	Tl
206 (Pb)	197	2	0.02 ug/l	0.00	35.27	2000	(Pb)
207 (Pb)	197	2	0.03 ug/l	0.00	16.65	2000	(Pb)
208 Pb	197	2	0.02 ug/l	0.00	12.75	5000	Pb
209 Bi	197	1	-0.01 ug/l	0.00	59.49	2000	Bi
232 Th	197	2	0.06 ug/l	0.00	13.14	2000	Th
238 U	197	2	0.00 ug/l	0.00	982.40	2000	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element Flag
6 Li	2	7063730	2.74	6939269	101.8	70 - 140	Li
45 Sc	1	450477	0.75	481965	93.5	70 - 140	Sc
45 Sc	2	7009564	0.68	7351212	95.4	70 - 140	Sc
72 Ge	1	269522	0.35	284165	94.8	70 - 140	Ge
72 Ge	2	1451712	0.92	1476622	98.3	70 - 140	Ge
115 In	2	8632003	1.29	8960157	96.3	70 - 140	In
165 Ho	1	6416562	0.93	6560437	97.8	70 - 140	Ho
165 Ho	2	11630946	0.26	11869600	98.0	70 - 140	Ho
197 Au	1	2059484	1.36	2238589	92.0	70 - 140	Au
197 Au	2	2502040	0.43	2712431	92.2	70 - 140	Au

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\1256MPL.D\1256MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1256MPL.D\1256MPL.D#
Date Acquired: Apr 14 2010 04:03 am
Operator:
Sample Name: LXDEW
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	0.34 ug/l	0.00	13.93	1000	Li	
9	Be	6	2	-0.01 ug/l	0.00	34.55	1000	Be	
11	B	6	2	6.04 ug/l	0.00	7.33	2000	B	
23	Na	45	1	278.10 ug/l	0.00	2.86	200000	Na	
24	Mg	45	1	9.46 ug/l	0.00	4.17	200000	Mg	
27	Al	45	1	22.78 ug/l	0.00	3.06	200000	Al	
28	Si	45	2	1835.00 ug/l	0.00	1.63	200000	Si	
29	Si	45	2	1852.00 ug/l	0.00	0.63	200000	Si	
31	P	45	1	3.93 ug/l	0.00	19.20	200000	P	
34	S	45	1	-183.20 ug/l	0.00	45.26	200000	S	
34	S	45	2	-288.70 ug/l	0.00	9.50	200000	S	
39	K	45	1	315.20 ug/l	0.00	2.52	200000	K	
44	Ca	45	2	64.23 ug/l	0.00	1.76	200000	Ca	
47	Ti	72	2	0.46 ug/l	0.00	3.91	5000	Ti	
51	V	72	1	1.88 ug/l	0.00	2.53	2000	V	
52	Cr	72	1	0.43 ug/l	0.00	2.50	2000	Cr	
55	Mn	72	1	0.53 ug/l	0.00	1.70	5000	Mn	
57	Fe	72	1	15.50 ug/l	0.00	3.50	200000	Fe	
59	Co	72	1	0.00 ug/l	0.00	20.74	2000	Co	
60	Ni	72	1	0.33 ug/l	0.00	2.58	2000	Ni	
63	Cu	72	1	0.50 ug/l	0.00	5.89	5000	Cu	
66	Zn	72	1	4.40 ug/l	0.00	2.35	5000	Zn	
75	As	72	1	0.34 ug/l	0.00	10.24	2000	As	
78	Se	72	1	-0.02 ug/l	0.00	434.38	2000	Se	
88	Sr	72	2	0.37 ug/l	0.00	1.27	5000	Sr	
89	Y	72	1	0.02 ug/l	0.00	17.53	2000	Y	
90	Zr	72	1	0.07 ug/l	0.00	12.44	2000	Zr	
93	Nb	72	1	0.24 ug/l	0.00	76.84	2000	Nb	
95	Mo	72	2	-0.02 ug/l	0.00	57.26	2000	Mo	
101	Ru	72	1	0.00 ug/l	0.00	152.24	2000	Ru	
103	Rh	72	1	0.01 ug/l	0.00	9.41	2000	Rh	
105	Pd	72	1	0.00 ug/l	0.00	394.92	2000	Pd	
107	Ag	115	2	0.00 ug/l	0.00	9.33	400	Ag	
111	Cd	115	2	0.01 ug/l	0.00	44.82	2000	Cd	
118	Sn	115	2	-0.45 ug/l	0.00	8.20	2000	Sn	
121	Sb	165	2	-0.02 ug/l	0.00	43.18	1000	Sb	
125	Te	165	1	-0.02 ug/l	0.00	152.48	2000	Te	
133	Cs	165	1	-0.01 ug/l	0.00	38.58	2000	Cs	
137	Ba	165	2	2.52 ug/l	0.00	0.97	5000	Ba	
139	La	165	1	0.06 ug/l	0.00	4.44	2000	La	
140	Ce	165	1	0.12 ug/l	0.00	1.61	2000	Ce	
141	Pr	165	1	0.01 ug/l	0.00	3.33	2000	Pr	
146	Nd	165	1	0.05 ug/l	0.00	13.32	2000	Nd	
147	Sm	165	2	0.00 ug/l	0.00	7.41	2000	Sm	
178	Hf	165	1	-0.04 ug/l	0.00	19.02	2000	Hf	
181	Ta	165	1	-0.10 ug/l	0.00	40.28	2000	Ta	
182	W	197	1	-0.10 ug/l	0.00	48.05	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	49.24	2000	Pt	
205	Tl	197	2	-0.03 ug/l	0.00	13.89	2000	Tl	
206	(Pb)	197	2	0.28 ug/l	0.00	8.97	2000	(Pb)	
207	(Pb)	197	2	0.25 ug/l	0.00	5.62	2000	(Pb)	
208	Pb	197	2	0.26 ug/l	0.00	2.27	5000	Pb	
209	Bi	197	1	-0.02 ug/l	0.00	8.75	2000	Bi	
232	Th	197	2	0.01 ug/l	0.00	43.63	2000	Th	
238	U	197	2	0.00 ug/l	0.00	54.36	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	7058733	0.31	6939269	101.7	70 - 140	Li	
45	Sc	1	454060	2.13	481965	94.2	70 - 140	Sc	
45	Sc	2	7126279	0.79	7351212	96.9	70 - 140	Sc	
72	Ge	1	268665	1.61	284165	94.5	70 - 140	Ge	
72	Ge	2	1450541	0.31	1476622	98.2	70 - 140	Ge	
115	In	2	8615849	0.83	8960157	96.2	70 - 140	In	
165	Ho	1	6507585	1.41	6560437	99.2	70 - 140	Ho	
165	Ho	2	11596761	0.63	11869600	97.7	70 - 140	Ho	
197	Au	1	2127307	2.14	2238589	95.0	70 - 140	Au	
197	Au	2	2487217	1.48	2712431	91.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\126SMPL.D\126SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\126SMPL.D\126SMPL.D#
Date Acquired: Apr 14 2010 04:11 am
Operator:
Sample Name: LXE6Q
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	0.85 ug/l	0.00	5.49	1000	Li	
9 Be	6		2	0.04 ug/l	0.00	0.06	1000	Be	
11 B	6		2	4.40 ug/l	0.00	7.73	2000	B	
23 Na	45		1	793.00 ug/l	0.00	2.38	200000	Na	
24 Mg	45		1	54.59 ug/l	0.00	1.27	200000	Mg	
27 Al	45		1	484.50 ug/l	0.00	1.03	200000	Al	
28 Si	45		2	3160.00 ug/l	0.00	2.23	200000	Si	
29 Si	45		2	3166.00 ug/l	0.00	2.22	200000	Si	
31 P	45		1	10.35 ug/l	0.00	6.18	200000	P	
34 S	45		1	-177.30 ug/l	0.00	34.42	200000	S	
34 S	45		2	-298.40 ug/l	0.00	2.77	200000	S	
39 K	45		1	503.90 ug/l	0.00	0.71	200000	K	
44 Ca	45		2	203.40 ug/l	0.00	1.69	200000	Ca	
47 Ti	72		2	5.66 ug/l	0.00	0.54	5000	Ti	
51 V	72		1	2.29 ug/l	0.00	0.66	2000	V	
52 Cr	72		1	2.82 ug/l	0.00	0.97	2000	Cr	
55 Mn	72		1	6.86 ug/l	0.00	0.20	5000	Mn	
57 Fe	72		1	273.60 ug/l	0.00	1.32	200000	Fe	
59 Co	72		1	0.08 ug/l	0.00	3.97	2000	Co	
60 Ni	72		1	1.58 ug/l	0.00	1.24	2000	Ni	
63 Cu	72		1	0.82 ug/l	0.00	1.34	5000	Cu	
66 Zn	72		1	8.25 ug/l	0.00	0.49	5000	Zn	
75 As	72		1	0.47 ug/l	0.00	4.03	2000	As	
78 Se	72		1	0.87 ug/l	0.00	10.90	2000	Se	
88 Sr	72		2	0.85 ug/l	0.00	1.56	5000	Sr	
89 Y	72		1	0.81 ug/l	0.00	3.23	2000	Y	
90 Zr	72		1	0.81 ug/l	0.00	2.45	2000	Zr	
93 Nb	72		1	0.29 ug/l	0.00	24.68	2000	Nb	
95 Mo	72		2	0.09 ug/l	0.00	11.00	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	26.04	2000	Ru	
103 Rh	72		1	0.01 ug/l	0.00	12.66	2000	Rh	
105 Pd	72		1	0.00 ug/l	0.00	70.77	2000	Pd	
107 Ag	115		2	0.00 ug/l	0.00	51.83	400	Ag	
111 Cd	115		2	0.02 ug/l	0.00	25.06	2000	Cd	
118 Sn	115		2	-0.39 ug/l	0.00	1.27	2000	Sn	
121 Sb	165		2	0.04 ug/l	0.00	19.06	1000	Sb	
125 Te	165		1	-0.04 ug/l	0.00	30.02	2000	Te	
133 Cs	165		1	0.05 ug/l	0.00	10.52	2000	Cs	
137 Ba	165		2	7.14 ug/l	0.00	1.46	5000	Ba	
139 La	165		1	1.36 ug/l	0.00	1.33	2000	La	
140 Ce	165		1	2.97 ug/l	0.00	1.45	2000	Ce	
141 Pr	165		1	0.33 ug/l	0.00	1.12	2000	Pr	
146 Nd	165		1	1.21 ug/l	0.00	2.46	2000	Nd	
147 Sm	165		2	0.23 ug/l	0.00	3.53	2000	Sm	
178 Hf	165		1	-0.01 ug/l	0.00	14.09	2000	Hf	
181 Ta	165		1	-0.08 ug/l	0.00	22.95	2000	Ta	
182 W	197		1	-0.06 ug/l	0.00	86.73	2000	W	
195 Pt	197		1	0.00 ug/l	0.00	252.81	2000	Pt	
205 Tl	197		2	-0.05 ug/l	0.00	7.29	2000	Tl	
206 (Pb)	197		2	0.31 ug/l	0.00	2.63	2000	(Pb)	
207 (Pb)	197		2	0.29 ug/l	0.00	4.62	2000	(Pb)	
208 Pb	197		2	0.31 ug/l	0.00	0.93	5000	Pb	
209 Bi	197		1	-0.02 ug/l	0.00	17.42	2000	Bi	
232 Th	197		2	0.19 ug/l	0.00	6.47	2000	Th	
238 U	197		2	0.02 ug/l	0.00	15.05	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6963111	0.37	6939269	100.3	70 - 140	Li	
45 Sc	1	444433	0.63	481965	92.2	70 - 140	Sc	
45 Sc	2	6976031	1.19	7351212	94.9	70 - 140	Sc	
72 Ge	1	264933	0.73	284165	93.2	70 - 140	Ge	
72 Ge	2	1426789	0.61	1476622	96.6	70 - 140	Ge	
115 In	2	8465022	0.86	8960157	94.5	70 - 140	In	
165 Ho	1	6368849	0.55	6560437	97.1	70 - 140	Ho	
165 Ho	2	11598316	1.23	11869600	97.7	70 - 140	Ho	
197 Au	1	2059086	1.55	2238589	92.0	70 - 140	Au	
197 Au	2	2440724	0.97	2712431	90.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\127SMPL.D\127SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\127SMPL.D\127SMPL.D#
Date Acquired: Apr 14 2010 04:18 am
Operator:
Sample Name: LXE7X
Misc Info:
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.81 ug/l	0.00	10.89	1000	Li	
9 Be	6	2	0.06 ug/l	0.00	3.19	1000	Be	
11 B	6	2	4.03 ug/l	0.00	7.23	2000	B	
23 Na	45	1	963.70 ug/l	0.00	1.34	200000	Na	
24 Mg	45	1	115.40 ug/l	0.00	1.28	200000	Mg	
27 Al	45	1	1412.00 ug/l	0.00	0.67	200000	Al	
28 Si	45	2	5226.00 ug/l	0.00	1.12	200000	Si	
29 Si	45	2	6086.00 ug/l	0.00	1.78	200000	Si	
31 P	45	1	18.07 ug/l	0.00	2.77	200000	P	
34 S	45	1	-257.20 ug/l	0.00	41.87	200000	S	
34 S	45	2	-444.40 ug/l	0.00	2.43	200000	S	
39 K	45	1	1051.00 ug/l	0.00	0.75	200000	K	
44 Ca	45	2	600.00 ug/l	0.00	0.68	200000	Ca	
47 Ti	72	2	14.70 ug/l	0.00	0.44	5000	Ti	
51 V	72	1	2.48 ug/l	0.00	1.03	2000	V	
52 Cr	72	1	1.22 ug/l	0.00	2.25	2000	Cr	
55 Mn	72	1	19.48 ug/l	0.00	1.33	5000	Mn	
57 Fe	72	1	416.20 ug/l	0.00	0.96	200000	Fe	
59 Co	72	1	0.22 ug/l	0.00	1.87	2000	Co	
60 Ni	72	1	0.90 ug/l	0.00	0.93	2000	Ni	
63 Cu	72	1	0.62 ug/l	0.00	1.70	5000	Cu	
66 Zn	72	1	5.47 ug/l	0.00	1.15	5000	Zn	
75 As	72	1	0.54 ug/l	0.00	3.06	2000	As	
78 Se	72	1	0.20 ug/l	0.00	51.63	2000	Se	
88 Sr	72	2	3.09 ug/l	0.00	0.96	5000	Sr	
89 Y	72	1	1.94 ug/l	0.00	1.84	2000	Y	
90 Zr	72	1	1.91 ug/l	0.00	0.57	2000	Zr	
93 Nb	72	1	0.66 ug/l	0.00	7.09	2000	Nb	
95 Mo	72	2	0.05 ug/l	0.00	12.34	2000	Mo	
101 Ru	72	1	0.00 ug/l	0.00	21.11	2000	Ru	
103 Rh	72	1	0.01 ug/l	0.00	17.16	2000	Rh	
105 Pd	72	1	0.00 ug/l	0.00	23.35	2000	Pd	
107 Ag	115	2	0.00 ug/l	0.00	10.13	400	Ag	
111 Cd	115	2	0.02 ug/l	0.00	26.65	2000	Cd	
118 Sn	115	2	-0.40 ug/l	0.00	4.13	2000	Sn	
121 Sb	165	2	0.01 ug/l	0.00	59.60	1000	Sb	
125 Te	165	1	-0.01 ug/l	0.00	298.13	2000	Te	
133 Cs	165	1	0.07 ug/l	0.00	15.15	2000	Cs	
137 Ba	165	2	10.13 ug/l	0.00	0.89	5000	Ba	
139 La	165	1	4.32 ug/l	0.00	1.47	2000	La	
140 Ce	165	1	7.32 ug/l	0.00	0.71	2000	Ce	
141 Pr	165	1	0.99 ug/l	0.00	2.01	2000	Pr	
146 Nd	165	1	3.61 ug/l	0.00	1.31	2000	Nd	
147 Sm	165	2	0.64 ug/l	0.00	2.25	2000	Sm	
178 Hf	165	1	0.03 ug/l	0.00	27.26	2000	Hf	
181 Ta	165	1	-0.10 ug/l	0.00	33.75	2000	Ta	
182 W	197	1	0.07 ug/l	0.00	67.88	2000	W	
195 Pt	197	1	0.00 ug/l	0.00	73.76	2000	Pt	
205 Tl	197	2	-0.04 ug/l	0.00	24.26	2000	Tl	
206 (Pb)	197	2	0.77 ug/l	0.00	2.20	2000	(Pb)	
207 (Pb)	197	2	0.72 ug/l	0.00	3.05	2000	(Pb)	
208 Pb	197	2	0.74 ug/l	0.00	0.40	5000	Pb	
209 Bi	197	1	-0.01 ug/l	0.00	1.26	2000	Bi	
232 Th	197	2	0.25 ug/l	0.00	2.78	2000	Th	
238 U	197	2	0.04 ug/l	0.00	1.91	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6963265	0.95	6939269	100.3	70 - 140	Li	
45 Sc	1	440905	0.66	481965	91.5	70 - 140	Sc	
45 Sc	2	7037088	0.88	7351212	95.7	70 - 140	Sc	
72 Ge	1	264362	0.84	284165	93.0	70 - 140	Ge	
72 Ge	2	1427984	0.52	1476622	96.7	70 - 140	Ge	
115 In	2	8470593	0.04	8960157	94.5	70 - 140	In	
165 Ho	1	6353596	0.72	6560437	96.8	70 - 140	Ho	
165 Ho	2	11533181	0.95	11869600	97.2	70 - 140	Ho	
197 Au	1	2032008	1.22	2238589	90.8	70 - 140	Au	
197 Au	2	2475000	0.78	2712431	91.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\128_CCV.D\128_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\128_CCV.D\128_CCV.D#
Date Acquired: Apr 14 2010 04:25 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	97.29 ug/l	0.80	100	97.3	90 - 110	Li	
9	Be	6	2	97.57 ug/l	0.12	100	97.6	90 - 110	Be	
11	B	6	2	192.50 ug/l	1.07	200	96.3	90 - 110	B	
23	Na	45	1	1291.00 ug/l	0.90	1250	103.3	90 - 110	Na	
24	Mg	45	1	2544.00 ug/l	1.38	2500	101.8	90 - 110	Mg	
27	Al	45	1	1219.00 ug/l	0.06	1250	97.5	90 - 110	Al	
28	Si	45	2	1233.00 ug/l	1.14	1250	98.6	90 - 110	Si	
29	Si	45	2	1252.00 ug/l	1.12	1250	100.2	90 - 110	Si	
31	P	45	1	1204.00 ug/l	0.49	1250	96.3	90 - 110	P	
34	S	45	1	18950.00 ug/l	0.51	20000	94.8	90 - 110	S	
34	S	45	2	19990.00 ug/l	0.64	20000	100.0	90 - 110	S	
39	K	45	1	1218.00 ug/l	2.84	1250	97.4	90 - 110	K	
44	Ca	45	2	2545.00 ug/l	0.92	2500	101.8	90 - 110	Ca	
47	Ti	72	2	99.16 ug/l	0.27	100	99.2	90 - 110	Ti	
51	V	72	1	105.80 ug/l	0.92	100	105.8	90 - 110	V	
52	Cr	72	1	104.70 ug/l	0.57	100	104.7	90 - 110	Cr	
55	Mn	72	1	102.70 ug/l	1.21	100	102.7	90 - 110	Mn	
57	Fe	72	1	2587.00 ug/l	0.90	2500	103.5	90 - 110	Fe	
59	Co	72	1	105.60 ug/l	0.92	100	105.6	90 - 110	Co	
60	Ni	72	1	103.80 ug/l	0.41	100	103.8	90 - 110	Ni	
63	Cu	72	1	105.20 ug/l	0.70	100	105.2	90 - 110	Cu	
66	Zn	72	1	101.90 ug/l	1.08	100	101.9	90 - 110	Zn	
75	As	72	1	102.00 ug/l	1.03	100	102.0	90 - 110	As	
78	Se	72	1	99.92 ug/l	0.86	100	99.9	90 - 110	Se	
88	Sr	72	2	100.10 ug/l	0.47	100	100.1	90 - 110	Sr	
89	Y	72	1	104.60 ug/l	1.78	100	104.6	90 - 110	Y	
90	Zr	72	1	98.01 ug/l	2.54	100	98.0	90 - 110	Zr	
93	Nb	72	1	51.20 ug/l	1.05	50	102.4	90 - 110	Nb	
95	Mo	72	2	97.76 ug/l	0.43	100	97.8	90 - 110	Mo	
101	Ru	72	1	107.10 ug/l	0.69	100	107.1	90 - 110	Ru	
103	Rh	72	1	107.30 ug/l	0.11	100	107.3	90 - 110	Rh	
105	Pd	72	1	10.50 ug/l	1.50	10	105.0	90 - 110	Pd	
107	Ag	115	2	20.09 ug/l	0.72	20	100.5	90 - 110	Ag	
111	Cd	115	2	98.86 ug/l	0.23	100	98.9	90 - 110	Cd	
118	Sn	115	2	99.36 ug/l	0.53	100	99.4	90 - 110	Sn	
121	Sb	165	2	48.73 ug/l	0.63	50	97.5	90 - 110	Sb	
125	Te	165	1	97.23 ug/l	0.72	100	97.2	90 - 110	Te	
133	Cs	165	1	97.61 ug/l	1.22	100	97.6	90 - 110	Cs	
137	Ba	165	2	97.68 ug/l	0.63	100	97.7	90 - 110	Ba	
139	La	165	1	100.40 ug/l	1.50	100	100.4	90 - 110	La	
140	Ce	165	1	101.10 ug/l	1.73	100	101.1	90 - 110	Ce	
141	Pr	165	1	100.30 ug/l	2.02	100	100.3	90 - 110	Pr	
146	Nd	165	1	97.99 ug/l	1.27	100	98.0	90 - 110	Nd	
147	Sm	165	2	97.75 ug/l	1.23	100	97.8	90 - 110	Sm	
178	Hf	165	1	83.13 ug/l	3.81	100	83.1	90 - 110	Hf	Fail
181	Ta	165	1	97.78 ug/l	3.20	100	97.8	90 - 110	Ta	
182	W	197	1	92.22 ug/l	1.42	100	92.2	90 - 110	W	
195	Pt	197	1	9.92 ug/l	2.09	10	99.2	90 - 110	Pt	
205	Tl	197	2	95.24 ug/l	0.74	100	95.2	90 - 110	Tl	
206	(Pb)	197	2	101.00 ug/l	0.58	100	101.0	90 - 110	(Pb)	
207	(Pb)	197	2	98.85 ug/l	1.30	100	98.9	90 - 110	(Pb)	
208	Pb	197	2	100.50 ug/l	0.39	100	100.5	90 - 110	Pb	
209	Bi	197	1	100.10 ug/l	0.76	100	100.1	90 - 110	Bi	
232	Th	197	2	88.34 ug/l	2.91	100	88.3	90 - 110	Th	Fail
238	U	197	2	100.30 ug/l	0.27	100	100.3	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6775319	0.64	6939269	97.6	70 - 140	Li	
45	Sc	1	442971	0.16	481965	91.9	70 - 140	Sc	
45	Sc	2	7038817	0.63	7351212	95.8	70 - 140	Sc	
72	Ge	1	264429	0.66	284165	93.1	70 - 140	Ge	
72	Ge	2	1402440	0.61	1476622	95.0	70 - 140	Ge	
115	In	2	8454050	0.53	8960157	94.4	70 - 140	In	
165	Ho	1	6312602	1.04	6560437	96.2	70 - 140	Ho	
165	Ho	2	11421483	1.40	11869600	96.2	70 - 140	Ho	
197	Au	1	2150095	0.33	2238589	96.0	70 - 140	Au	
197	Au	2	2592276	0.40	2712431	95.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\129_CCB.D\129_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\129_CCB.D\129_CCB.D#
Date Acquired: Apr 14 2010 04:33 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.058	ug/l	185.00	1.35	Li	
9 Be	6	2	0.000	ug/l	1342.30	0.23	Be	
11 B	6	2	-4.457	ug/l	5.03	14.94	B	
23 Na	45	1	3.771	ug/l	2.76	10.60	Na	
24 Mg	45	1	0.109	ug/l	68.52	3.46	Mg	
27 Al	45	1	-1.596	ug/l	6.36	8.94	Al	
28 Si	45	2	-2.658	ug/l	28.59	35.60	Si	
29 Si	45	2	-3.963	ug/l	49.61	35.60	Si	
31 P	45	1	0.663	ug/l	64.86	16.46	P	
34 S	45	1	-568.000	ug/l	10.17	666.00	S	
34 S	45	2	-660.500	ug/l	4.81	666.00	S	
39 K	45	1	-2.953	ug/l	13.04	16.66	K	
44 Ca	45	2	-0.423	ug/l	122.22	97.40	Ca	
47 Ti	72	2	0.138	ug/l	13.30	1.15	Ti	
51 V	72	1	0.903	ug/l	1.61	4.74	V	
52 Cr	72	1	0.029	ug/l	11.39	6.52	Cr	
55 Mn	72	1	-0.001	ug/l	394.08	0.47	Mn	
57 Fe	72	1	1.687	ug/l	57.69	40.70	Fe	
59 Co	72	1	0.007	ug/l	45.88	0.43	Co	
60 Ni	72	1	0.000	ug/l	1556.00	0.46	Ni	
63 Cu	72	1	-0.080	ug/l	6.51	0.19	Cu	
66 Zn	72	1	-0.070	ug/l	35.45	7.48	Zn	
75 As	72	1	0.176	ug/l	18.42	1.89	As	
78 Se	72	1	0.135	ug/l	30.09	0.52	Se	
88 Sr	72	2	0.002	ug/l	32.03	0.23	Sr	
89 Y	72	1	0.007	ug/l	43.53	0.42	Y	
90 Zr	72	1	0.092	ug/l	14.30	0.50	Zr	
93 Nb	72	1	1.050	ug/l	19.21	4.46	Nb	
95 Mo	72	2	0.252	ug/l	11.04	0.43	Mo	
101 Ru	72	1	0.008	ug/l	71.55	2.00	Ru	
103 Rh	72	1	0.008	ug/l	28.32	1.63	Rh	
105 Pd	72	1	0.002	ug/l	64.21	0.08	Pd	
107 Ag	115	2	-0.001	ug/l	54.64	0.08	Ag	
111 Cd	115	2	0.007	ug/l	25.90	0.11	Cd	
118 Sn	115	2	-0.443	ug/l	8.02	0.30	Sn	FAIL
121 Sb	165	2	-0.112	ug/l	9.62	2.24	Sb	
125 Te	165	1	0.245	ug/l	15.24	1.07	Te	
133 Cs	165	1	0.054	ug/l	2.07	0.11	Cs	
137 Ba	165	2	-0.003	ug/l	117.34	0.39	Ba	
139 La	165	1	0.007	ug/l	29.83	0.10	La	
140 Ce	165	1	0.008	ug/l	18.78	1.77	Ce	
141 Pr	165	1	0.008	ug/l	24.28	0.08	Pr	
146 Nd	165	1	0.006	ug/l	17.93	0.21	Nd	
147 Sm	165	2	0.000	ug/l	394.12	0.65	Sm	
178 Hf	165	1	0.249	ug/l	3.23	2.26	Hf	
181 Ta	165	1	0.023	ug/l	135.79	1.46	Ta	
182 W	197	1	1.603	ug/l	11.88	1.68	W	
195 Pt	197	1	0.003	ug/l	30.86	0.12	Pt	
205 Tl	197	2	1.370	ug/l	4.65	1.10	Tl	FAIL
206 (Pb)	197	2	-0.063	ug/l	30.18	2.00	(Pb)	
207 (Pb)	197	2	-0.074	ug/l	18.45	2.00	(Pb)	
208 Pb	197	2	-0.071	ug/l	11.81	0.35	Pb	
209 Bi	197	1	-0.015	ug/l	16.92	1.46	Bi	
232 Th	197	2	1.564	ug/l	4.50	1.10	Th	FAIL
238 U	197	2	0.057	ug/l	12.16	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6806555	0.17	6939269	98.1	70 - 140	Li	
45 Sc	1	448853	0.12	461965	93.1	70 - 140	Sc	
45 Sc	2	7025923	1.71	7351212	95.6	70 - 140	Sc	
72 Ge	1	263610	0.86	284165	92.8	70 - 140	Ge	
72 Ge	2	1376157	0.32	1476622	93.2	70 - 140	Ge	
115 In	2	8370763	1.11	8960157	93.4	70 - 140	In	
165 Ho	1	6395118	0.58	6560437	97.5	70 - 140	Ho	
165 Ho	2	11431179	0.18	11869600	96.3	70 - 140	Ho	
197 Au	1	2161065	0.75	2238589	96.5	70 - 140	Au	
197 Au	2	2567254	0.73	2712431	94.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\130_PB.D\130_PB.D$

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\130_PB.D\130_PB.D$
Date Acquired: Apr 14 2010 04:40 am
Operator:
Sample Name: LN9L4B
Misc Info: 0089082
Vial Number: 4101
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-MB_DOD
Total Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.001	ug/l	12418.00	1.25	Li	
9 Be	6	2	-0.006	ug/l	22.72	0.13	Be	
11 B	6	2	4.928	ug/l	2.72	12.50	B	
23 Na	45	1	21.370	ug/l	2.22	12.50	Na	FAIL
24 Mg	45	1	4.784	ug/l	3.38	12.50	Mg	
27 Al	45	1	4.040	ug/l	6.82	7.50	Al	
28 Si	45	2	35.420	ug/l	2.46	62.50	Si	
29 Si	45	2	39.480	ug/l	6.25	62.50	Si	
31 P	45	1	2.746	ug/l	6.98	12.50	P	
34 S	45	1	-492.600	ug/l	19.23	1250.00	S	
34 S	45	2	-571.800	ug/l	1.95	1250.00	S	
39 K	45	1	2.619	ug/l	6.67	25.00	K	
44 Ca	45	2	18.510	ug/l	1.68	25.00	Ca	
47 Ti	72	2	0.127	ug/l	30.09	1.25	Ti	
51 V	72	1	1.316	ug/l	1.25	2.50	V	
52 Cr	72	1	0.229	ug/l	3.60	2.50	Cr	
55 Mn	72	1	0.097	ug/l	0.81	0.50	Mn	
57 Fe	72	1	4.867	ug/l	18.77	12.50	Fe	
59 Co	72	1	0.001	ug/l	77.98	0.50	Co	
60 Ni	72	1	0.339	ug/l	3.74	1.25	Ni	
63 Cu	72	1	-0.198	ug/l	1.52	0.25	Cu	
66 Zn	72	1	1.744	ug/l	1.99	1.25	Zn	FAIL
75 As	72	1	0.249	ug/l	10.29	2.50	As	
78 Se	72	1	0.006	ug/l	665.17	1.25	Se	
88 Sr	72	2	0.046	ug/l	4.89	1.25	Sr	
89 Y	72	1	-0.004	ug/l	21.67	1.25	Y	
90 Zr	72	1	0.698	ug/l	5.59	1.25	Zr	
93 Nb	72	1	0.658	ug/l	24.32	6.25	Nb	
95 Mo	72	2	0.048	ug/l	21.92	1.25	Mo	
101 Ru	72	1	-0.004	ug/l	73.85	2.50	Ru	
103 Rh	72	1	0.004	ug/l	17.84	2.50	Rh	
105 Pd	72	1	0.000	ug/l	529.12	0.13	Pd	
107 Ag	115	2	-0.001	ug/l	84.75	0.50	Ag	
111 Cd	115	2	0.009	ug/l	89.24	0.13	Cd	
118 Sn	115	2	-0.490	ug/l	5.81	0.50	Sn	
121 Sb	165	2	-0.166	ug/l	1.87	1.25	Sb	
125 Te	165	1	0.045	ug/l	41.96	2.50	Te	
133 Cs	165	1	0.009	ug/l	25.66	0.03	Cs	
137 Ba	165	2	0.927	ug/l	0.62	0.50	Ba	FAIL
139 La	165	1	0.006	ug/l	33.22	0.50	La	
140 Ce	165	1	0.023	ug/l	8.92	2.50	Ce	
141 Pr	165	1	-0.003	ug/l	33.89	0.50	Pr	
146 Nd	165	1	-0.003	ug/l	63.99	0.50	Nd	
147 Sm	165	2	-0.005	ug/l	22.02	2.50	Sm	
178 Hf	165	1	1.485	ug/l	4.70	2.50	Hf	
181 Ta	165	1	0.113	ug/l	38.16	2.50	Ta	
182 W	197	1	0.345	ug/l	35.71	1.25	W	
195 Pt	197	1	0.013	ug/l	17.47	0.25	Pt	
205 Tl	197	2	0.691	ug/l	3.32	0.50	Tl	FAIL
206 (Pb)	197	2	0.047	ug/l	31.63	0.75	(Pb)	
207 (Pb)	197	2	0.047	ug/l	16.74	0.75	(Pb)	
208 Pb	197	2	0.046	ug/l	16.63	0.75	Pb	
209 Bi	197	1	0.065	ug/l	40.02	5.00	Bi	
232 Th	197	2	3.942	ug/l	4.29	0.50	Th	FAIL
238 U	197	2	0.016	ug/l	20.94	0.25	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6901493	0.65	6933269	99.5	70 - 140	Li	
45 Sc	1	446927	0.98	481965	92.7	70 - 140	Sc	
45 Sc	2	7000053	0.53	7351212	95.2	70 - 140	Sc	
72 Ge	1	266711	0.06	284165	93.9	70 - 140	Ge	
72 Ge	2	1427067	1.33	1476622	96.6	70 - 140	Ge	
115 In	2	8488155	1.47	8960157	94.7	70 - 140	In	
165 Ho	1	6420164	0.81	6560437	97.9	70 - 140	Ho	
165 Ho	2	11403601	1.29	11869600	96.1	70 - 140	Ho	
197 Au	1	2084981	0.67	2238589	93.1	70 - 140	Au	
197 Au	2	2468352	0.87	2712431	91.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D$

5 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\131_LCS.D\131_LCS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\131_LCS.D\131_LCS.D#
Date Acquired: Apr 14 2010 04:47 am
Acq. Method: 2010.M
Operator:
Sample Name: LW9L4C
Misc Info:
Vial Number: 4102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:13 am
Sample Type: 6-LCS_D
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	512.10	0.84	500	102.4	80 - 120	Li	
9	Be	6	2	487.00	1.62	500	97.4	80 - 120	Be	
11	B	6	2	511.20	1.09	500	102.2	80 - 120	B	
23	Na	45	1	4986.00	0.87	5000	99.7	80 - 120	Na	
24	Mg	45	1	4954.00	0.69	5000	99.1	80 - 120	Mg	
27	Al	45	1	4824.00	1.48	5000	96.5	80 - 120	Al	
28	Si	45	2	43.16	1.69	500	8.6	80 - 120	Si	FAIL
29	Si	45	2	47.63	1.59	500	9.5	80 - 120	Si	FAIL
31	P	45	1	465.40	0.94	5000	9.3	80 - 120	P	FAIL
34	S	45	1	4241.00	2.73	5000	84.8	80 - 120	S	
34	S	45	2	4859.00	3.04	5000	97.2	80 - 120	S	
39	K	45	1	4724.00	1.12	5000	94.5	80 - 120	K	
44	Ca	45	2	4962.00	0.29	5000	99.2	80 - 120	Ca	
47	Ti	72	2	512.00	0.70	500	102.4	80 - 120	Ti	
51	V	72	1	513.10	0.62	500	102.6	80 - 120	V	
52	Cr	72	1	519.40	1.21	500	103.9	80 - 120	Cr	
55	Mn	72	1	517.80	0.90	500	103.6	80 - 120	Mn	
57	Fe	72	1	5475.00	0.73	5000	109.5	80 - 120	Fe	
59	Co	72	1	521.50	0.42	500	104.3	80 - 120	Co	
60	Ni	72	1	517.90	0.25	500	103.6	80 - 120	Ni	
63	Cu	72	1	508.00	0.69	500	101.6	80 - 120	Cu	
66	Zn	72	1	500.50	0.51	500	100.1	80 - 120	Zn	
75	As	72	1	502.60	0.26	500	100.5	80 - 120	As	
78	Se	72	1	482.80	1.09	500	96.6	80 - 120	Se	
88	Sr	72	2	495.90	0.08	500	99.2	80 - 120	Sr	
89	Y	72	1	0.03	1.91	500	0.0	80 - 120	Y	FAIL
90	Zr	72	1	512.30	0.69	500	102.5	80 - 120	Zr	
93	Nb	72	1	114.90	0.42	500	23.0	80 - 120	Nb	FAIL
95	Mo	72	2	487.00	0.38	500	97.4	80 - 120	Mo	
101	Ru	72	1	-0.01	9.52	500	0.0	80 - 120	Ru	FAIL
103	Rh	72	1	0.03	4.71	500	0.0	80 - 120	Rh	FAIL
105	Pd	72	1	0.03	5.46	500	0.0	80 - 120	Pd	FAIL
107	Ag	115	2	49.35	0.83	50	98.7	80 - 120	Ag	
111	Cd	115	2	480.30	0.50	500	96.1	80 - 120	Cd	
118	Sn	115	2	493.10	0.95	500	98.6	80 - 120	Sn	
121	Sb	165	2	224.50	1.60	250	89.8	80 - 120	Sb	
125	Te	165	1	0.10	36.80	500	0.0	80 - 120	Te	FAIL
133	Cs	165	1	0.00	94.32	500	0.0	80 - 120	Cs	FAIL
137	Ba	165	2	483.70	1.86	500	96.7	80 - 120	Ba	
139	La	165	1	0.00	28.29	500	0.0	80 - 120	La	FAIL
140	Ce	165	1	0.00	43.98	500	0.0	80 - 120	Ce	FAIL
141	Pr	165	1	0.00	10.36	500	0.0	80 - 120	Pr	FAIL
146	Nd	165	1	0.00	997.05	500	0.0	80 - 120	Nd	FAIL
147	Sm	165	2	478.50	1.58	500	95.7	80 - 120	Sm	
178	Hf	165	1	12.21	11.22	500	2.4	80 - 120	Hf	FAIL
181	Ta	165	1	2.88	10.75	500	0.6	80 - 120	Ta	FAIL
182	W	197	1	509.90	1.08	500	102.0	80 - 120	W	
195	Pt	197	1	0.05	14.30	500	0.0	80 - 120	Pt	FAIL
205	Tl	197	2	535.50	1.35	500	107.1	80 - 120	Tl	
206	(Pb)	197	2	506.20	0.80	500	101.2	80 - 120	(Pb)	
207	(Pb)	197	2	528.40	0.73	500	105.7	80 - 120	(Pb)	
208	Pb	197	2	517.60	0.65	500	103.5	80 - 120	Pb	
209	Bi	197	1	507.60	0.64	500	101.5	80 - 120	Bi	
232	Th	197	2	531.50	0.43	500	106.3	80 - 120	Th	
238	U	197	2	545.20	0.22	500	109.0	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6434060	0.35	6939269	92.7	70 - 140	Li	
45	Sc	1	447682	0.96	481965	92.9	70 - 140	Sc	
45	Sc	2	7003353	1.00	7351212	95.3	70 - 140	Sc	
72	Ge	1	256280	0.66	284165	90.2	70 - 140	Ge	
72	Ge	2	1376683	0.95	1476622	93.2	70 - 140	Ge	
115	In	2	8293908	1.15	8960157	92.6	70 - 140	In	
165	Ho	1	6338847	0.49	6560437	96.6	70 - 140	Ho	
165	Ho	2	11474625	0.81	11869600	96.7	70 - 140	Ho	
197	Au	1	2020998	0.84	2238589	90.3	70 - 140	Au	
197	Au	2	2409982	0.40	2712431	88.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

17 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\132SMPL.D\132SMPL.D#
Date Acquired: Apr 14 2010 04:54 am
Operator:
Sample Name: LWXPM
Misc Info:
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	23.33 ug/l	0.00	2.08	1000	Li	
9	Be	6	2	1.03 ug/l	0.00	2.39	1000	Be	
11	B	6	2	35.26 ug/l	0.00	0.79	2000	B	
23	Na	45	1	883.00 ug/l	0.00	0.98	200000	Na	
24	Mg	45	1	14000.00 ug/l	0.00	1.31	200000	Mg	
27	Al	45	1	13300.00 ug/l	0.00	1.21	200000	Al	
28	Si	45	2	1222.00 ug/l	0.00	3.97	200000	Si	
29	Si	45	2	1180.00 ug/l	0.00	7.13	200000	Si	
31	P	45	1	1809.00 ug/l	0.00	0.87	200000	P	
34	S	45	1	4338.00 ug/l	0.00	1.94	200000	S	
34	S	45	2	5258.00 ug/l	0.00	0.74	200000	S	
39	K	45	1	2365.00 ug/l	0.00	0.52	200000	K	
44	Ca	45	2	76520.00 ug/l	0.00	1.20	200000	Ca	
47	Ti	72	2	317.40 ug/l	0.00	11.96	5000	Ti	
51	V	72	1	33.90 ug/l	0.00	0.37	2000	V	
52	Cr	72	1	135.40 ug/l	0.00	1.10	2000	Cr	
55	Mn	72	1	1349.00 ug/l	0.00	0.66	5000	Mn	
57	Fe	72	1	161300.00 ug/l	0.00	0.91	200000	Fe	
59	Co	72	1	22.38 ug/l	0.00	0.61	2000	Co	
60	Ni	72	1	73.46 ug/l	0.00	0.51	2000	Ni	
63	Cu	72	1	230.50 ug/l	0.00	0.21	5000	Cu	
66	Zn	72	1	1878.00 ug/l	0.00	0.42	5000	Zn	
75	As	72	1	32.99 ug/l	0.00	0.98	2000	As	
78	Se	72	1	2.74 ug/l	0.00	4.40	2000	Se	
88	Sr	72	2	241.60 ug/l	0.00	0.78	5000	Sr	
89	Y	72	1	13.69 ug/l	0.00	1.67	2000	Y	
90	Zr	72	1	16.21 ug/l	0.00	1.29	2000	Zr	
93	Nb	72	1	7.06 ug/l	0.00	13.16	2000	Nb	
95	Mo	72	2	12.32 ug/l	0.00	0.14	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	19.63	2000	Ru	
103	Rh	72	1	0.07 ug/l	0.00	5.91	2000	Rh	
105	Pd	72	1	0.04 ug/l	0.00	14.57	2000	Pd	
107	Ag	115	2	2.21 ug/l	0.00	2.27	400	Ag	
111	Cd	115	2	8.33 ug/l	0.00	1.69	2000	Cd	
118	Sn	115	2	544.50 ug/l	0.00	0.72	2000	Sn	
121	Sb	165	2	2.71 ug/l	0.00	1.65	1000	Sb	
125	Te	165	1	0.03 ug/l	0.00	217.13	2000	Te	
133	Cs	165	1	0.96 ug/l	0.00	2.94	2000	Cs	
137	Ba	165	2	436.50 ug/l	0.00	1.37	5000	Ba	
139	La	165	1	14.20 ug/l	0.00	2.82	2000	La	
140	Ce	165	1	31.44 ug/l	0.00	2.93	2000	Ce	
141	Pr	165	1	4.04 ug/l	0.00	2.94	2000	Pr	
146	Nd	165	1	16.72 ug/l	0.00	2.12	2000	Nd	
147	Sm	165	2	3.76 ug/l	0.00	1.51	2000	Sm	
178	Hf	165	1	0.34 ug/l	0.00	4.95	2000	Hf	
181	Ta	165	1	-0.09 ug/l	0.00	25.74	2000	Ta	
182	W	197	1	6.64 ug/l	0.00	7.25	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	32.02	2000	Pt	
205	Tl	197	2	2.38 ug/l	0.00	3.92	2000	Tl	
206	(Pb)	197	2	1585.00 ug/l	0.00	0.73	2000	(Pb)	
207	(Pb)	197	2	1530.00 ug/l	0.00	0.67	2000	(Pb)	
208	Pb	197	2	1558.00 ug/l	0.00	0.61	5000	Pb	
209	Bi	197	1	0.92 ug/l	0.00	6.71	2000	Bi	
232	Th	197	2	18.58 ug/l	0.00	4.61	2000	Th	
238	U	197	2	1.70 ug/l	0.00	1.57	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6618930	0.81	6939269	95.4	70 - 140	Li	
45	Sc	1	470017	0.50	481965	97.5	70 - 140	Sc	
45	Sc	2	7333586	0.76	7351212	99.8	70 - 140	Sc	
72	Ge	1	268498	0.92	284165	94.5	70 - 140	Ge	
72	Ge	2	1393611	0.67	1476622	94.4	70 - 140	Ge	
115	In	2	8425990	0.72	8960157	94.0	70 - 140	In	
165	Ho	1	6457919	1.35	6560637	98.4	70 - 140	Ho	
165	Ho	2	11550066	0.34	11859600	97.3	70 - 140	Ho	
197	Au	1	2062467	1.79	2238589	92.1	70 - 140	Au	
197	Au	2	2471179	0.20	2712431	91.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\133SMPL.D\133SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\133SMPL.D\133SMPL.D#
Date Acquired: Apr 14 2010 05:01 am
Operator:
Sample Name: LWXPMV
Misc Info:
Vial Number: 4104
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 25.00
Total Dil Factor: 25.00

QC Elements

Element	IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7 Li	6	2	4.42 ug/l	0.00	1.73	1000	Li
9 Be	6	2	0.17 ug/l	0.00	3.37	1000	Be
11 B	6	2	2.70 ug/l	0.00	6.10	2000	B
23 Na	45	1	175.60 ug/l	0.00	0.44	200000	Na
24 Mg	45	1	2865.00 ug/l	0.00	1.08	200000	Mg
27 Al	45	1	2809.00 ug/l	0.00	0.60	200000	Al
28 Si	45	2	405.50 ug/l	0.00	13.77	200000	Si
29 Si	45	2	339.50 ug/l	0.00	5.30	200000	Si
31 P	45	1	359.10 ug/l	0.00	0.42	200000	P
34 S	45	1	696.50 ug/l	0.00	7.96	200000	S
34 S	45	2	645.30 ug/l	0.00	15.05	200000	S
39 K	45	1	506.60 ug/l	0.00	1.20	200000	K
44 Ca	45	2	16270.00 ug/l	0.00	2.71	200000	Ca
47 Ti	72	2	68.87 ug/l	0.00	2.64	5000	Ti
51 V	72	1	6.39 ug/l	0.00	0.93	2000	V
52 Cr	72	1	27.17 ug/l	0.00	0.31	2000	Cr
55 Mn	72	1	280.30 ug/l	0.00	0.81	5000	Mn
57 Fe	72	1	32170.00 ug/l	0.00	0.87	200000	Fe
59 Co	72	1	4.48 ug/l	0.00	0.60	2000	Co
60 Ni	72	1	15.39 ug/l	0.00	1.00	2000	Ni
63 Cu	72	1	48.56 ug/l	0.00	1.18	5000	Cu
66 Zn	72	1	425.50 ug/l	0.00	0.84	5000	Zn
75 As	72	1	6.36 ug/l	0.00	0.19	2000	As
78 Se	72	1	0.46 ug/l	0.00	30.68	2000	Se
88 Sr	72	2	49.93 ug/l	0.00	2.49	5000	Sr
89 Y	72	1	2.69 ug/l	0.00	1.99	2000	Y
90 Zr	72	1	2.17 ug/l	0.00	5.33	2000	Zr
93 Nb	72	1	1.45 ug/l	0.00	18.29	2000	Nb
95 Mo	72	2	2.32 ug/l	0.00	2.61	2000	Mo
101 Ru	72	1	-0.01 ug/l	0.00	13.48	2000	Ru
103 Rh	72	1	0.01 ug/l	0.00	26.87	2000	Rh
105 Pd	72	1	0.01 ug/l	0.00	59.63	2000	Pd
107 Ag	115	2	0.44 ug/l	0.00	3.76	400	Ag
111 Cd	115	2	1.68 ug/l	0.00	4.06	2000	Cd
118 Sn	115	2	81.93 ug/l	0.00	1.63	2000	Sn
121 Sb	165	2	0.50 ug/l	0.00	5.19	1000	Sb
125 Te	165	1	0.00 ug/l	0.00	9.40	2000	Te
133 Cs	165	1	0.17 ug/l	0.00	1.86	2000	Cs
137 Ba	165	2	90.79 ug/l	0.00	3.45	5000	Ba
139 La	165	1	2.78 ug/l	0.00	0.17	2000	La
140 Ce	165	1	6.18 ug/l	0.00	0.48	2000	Ce
141 Pr	165	1	0.78 ug/l	0.00	2.38	2000	Pr
146 Nd	165	1	3.30 ug/l	0.00	0.93	2000	Nd
147 Sm	165	2	0.71 ug/l	0.00	2.95	2000	Sm
178 Hf	165	1	-0.02 ug/l	0.00	13.30	2000	Hf
181 Ta	165	1	-0.17 ug/l	0.00	9.56	2000	Ta
182 W	197	1	1.03 ug/l	0.00	14.10	2000	W
195 Pt	197	1	0.00 ug/l	0.00	107.93	2000	Pt
205 Tl	197	2	0.64 ug/l	0.00	5.60	2000	Tl
206 (Pb)	197	2	320.20 ug/l	0.00	1.76	2000	(Pb)
207 (Pb)	197	2	304.60 ug/l	0.00	1.75	2000	(Pb)
208 Pb	197	2	309.20 ug/l	0.00	1.49	5000	Pb
209 Bi	197	1	0.13 ug/l	0.00	7.02	2000	Bi
232 Th	197	2	2.02 ug/l	0.00	5.34	2000	Th
238 U	197	2	0.28 ug/l	0.00	1.87	2000	U

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6989258	0.61	6939269	100.7	70 - 140	Li	
45 Sc	1	479342	0.20	481965	99.5	70 - 140	Sc	
45 Sc	2	7421326	3.00	7351212	101.0	70 - 140	Sc	
72 Ge	1	278321	0.85	284165	97.9	70 - 140	Ge	
72 Ge	2	1454178	1.85	1476622	98.5	70 - 140	Ge	
115 In	2	8972241	2.17	8960157	100.1	70 - 140	In	
165 Ho	1	6704747	0.85	6560437	102.2	70 - 140	Ho	
165 Ho	2	11812836	3.31	11869600	99.5	70 - 140	Ho	
197 Au	1	2271757	0.23	2238589	101.5	70 - 140	Au	
197 Au	2	2704738	1.34	2712431	99.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\134SMPL.D\134SMPL.D$

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\134SMPL.D\134SMPL.D$
Date Acquired: Apr 14 2010 05:09 am
Operator:
Sample Name: LWXFMS
Misc Info:
Vial Number: 4105
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	233.20 ug/l	0.00	0.79	1000	Li	
9 Be	6		2	212.20 ug/l	0.00	1.97	1000	Be	
11 B	6		2	256.30 ug/l	0.00	1.34	2000	B	
23 Na	45		1	2969.00 ug/l	0.00	1.47	200000	Na	
24 Mg	45		1	13540.00 ug/l	0.00	1.38	200000	Mg	
27 Al	45		1	16190.00 ug/l	0.00	0.67	200000	Al	
28 Si	45		2	1970.00 ug/l	0.00	3.85	200000	Si	
29 Si	45		2	2071.00 ug/l	0.00	1.63	200000	Si	
31 P	45		1	1814.00 ug/l	0.00	1.29	200000	P	
34 S	45		1	6481.00 ug/l	0.00	4.65	200000	S	
34 S	45		2	7497.00 ug/l	0.00	1.40	200000	S	
39 K	45		1	4725.00 ug/l	0.00	1.42	200000	K	
44 Ca	45		2	79380.00 ug/l	0.00	0.87	200000	Ca	
47 Ti	72		2	519.80 ug/l	0.00	4.02	5000	Ti	
51 V	72		1	246.50 ug/l	0.00	1.41	2000	V	
52 Cr	72		1	341.30 ug/l	0.00	1.62	2000	Cr	
55 Mn	72		1	3009.00 ug/l	0.00	2.14	5000	Mn	
57 Fe	72		1	405000.00 ug/l	0.00	1.67	200000	Fe	>LDR
59 Co	72		1	249.10 ug/l	0.00	2.33	2000	Co	
60 Ni	72		1	322.50 ug/l	0.00	1.65	2000	Ni	
63 Cu	72		1	592.90 ug/l	0.00	1.55	5000	Cu	
66 Zn	72		1	1214.00 ug/l	0.00	1.43	5000	Zn	
75 As	72		1	269.70 ug/l	0.00	1.06	2000	As	
78 Se	72		1	176.80 ug/l	0.00	1.97	2000	Se	
88 Sr	72		2	532.10 ug/l	0.00	0.02	5000	Sr	
89 Y	72		1	10.68 ug/l	0.00	2.56	2000	Y	
90 Zr	72		1	217.80 ug/l	0.00	1.95	2000	Zr	
93 Nb	72		1	51.11 ug/l	0.00	1.08	2000	Nb	
95 Mo	72		2	225.10 ug/l	0.00	0.07	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	22.48	2000	Ru	
103 Rh	72		1	0.05 ug/l	0.00	6.42	2000	Rh	
105 Pd	72		1	0.05 ug/l	0.00	5.63	2000	Pd	
107 Ag	115		2	21.62 ug/l	0.00	1.56	400	Ag	
111 Cd	115		2	212.70 ug/l	0.00	0.97	2000	Cd	
118 Sn	115		2	1986.00 ug/l	0.00	0.28	2000	Sn	
121 Sb	165		2	68.59 ug/l	0.00	1.62	1000	Sb	
125 Te	165		1	0.14 ug/l	0.00	8.47	2000	Te	
133 Cs	165		1	1.03 ug/l	0.00	2.02	2000	Cs	
137 Ba	165		2	737.30 ug/l	0.00	0.93	5000	Ba	
139 La	165		1	11.66 ug/l	0.00	1.09	2000	La	
140 Ce	165		1	26.27 ug/l	0.00	1.04	2000	Ce	
141 Pr	165		1	3.35 ug/l	0.00	1.96	2000	Pr	
146 Nd	165		1	13.52 ug/l	0.00	1.02	2000	Nd	
147 Sm	165		2	210.60 ug/l	0.00	1.78	2000	Sm	
178 Hf	165		1	0.54 ug/l	0.00	4.21	2000	Hf	
181 Ta	165		1	-0.02 ug/l	0.00	367.46	2000	Ta	
182 W	197		1	183.70 ug/l	0.00	1.46	2000	W	
195 Pt	197		1	0.01 ug/l	0.00	14.69	2000	Pt	
205 Tl	197		2	212.60 ug/l	0.00	0.75	2000	Tl	
206 (Pb)	197		2	1333.00 ug/l	0.00	0.58	2000	(Pb)	
207 (Pb)	197		2	1365.00 ug/l	0.00	0.66	2000	(Pb)	
208 Pb	197		2	1325.00 ug/l	0.00	0.33	5000	Pb	
209 Bi	197		1	207.10 ug/l	0.00	0.64	2000	Bi	
232 Th	197		2	220.10 ug/l	0.00	0.68	2000	Th	
238 U	197		2	224.10 ug/l	0.00	1.35	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6357015	0.15	6939269	91.6	70 - 140	Li	
45 Sc	1	456483	0.57	481965	94.7	70 - 140	Sc	
45 Sc	2	7046290	0.29	7351212	95.9	70 - 140	Sc	
72 Ge	1	271595	1.57	284165	95.6	70 - 140	Ge	
72 Ge	2	1384989	0.42	1476622	93.8	70 - 140	Ge	
115 In	2	8065279	1.04	8960157	90.0	70 - 140	In	
165 Ho	1	6109101	0.99	6560437	93.1	70 - 140	Ho	
165 Ho	2	11136297	0.72	11869600	93.8	70 - 140	Ho	
197 Au	1	1918492	0.75	2238589	85.7	70 - 140	Au	
197 Au	2	2333817	0.66	2712431	86.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D$

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\135SMPL.D\135SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\135SMPL.D\135SMPL.D#
Date Acquired: Apr 14 2010 05:16 am
Operator:
Sample Name: LMXFMD
Misc Info:
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	235.00 ug/l	0.00	0.25	1000	Li	
9	Be	6		2	206.10 ug/l	0.00	1.07	1000	Be	
11	B	6		2	250.90 ug/l	0.00	1.11	2000	B	
23	Na	45		1	3008.00 ug/l	0.00	1.28	200000	Na	
24	Mg	45		1	18240.00 ug/l	0.00	1.02	200000	Mg	
27	Al	45		1	26700.00 ug/l	0.00	0.50	200000	Al	
28	Si	45		2	2474.00 ug/l	0.00	2.87	200000	Si	
29	Si	45		2	2459.00 ug/l	0.00	3.32	200000	Si	
31	P	45		1	1959.00 ug/l	0.00	0.72	200000	P	
34	S	45		1	10100.00 ug/l	0.00	0.94	200000	S	
34	S	45		2	11210.00 ug/l	0.00	0.71	200000	S	
39	K	45		1	5427.00 ug/l	0.00	0.46	200000	K	
44	Ca	45		2	86430.00 ug/l	0.00	0.71	200000	Ca	
47	Ti	72		2	528.80 ug/l	0.00	0.45	5000	Ti	
51	V	72		1	255.50 ug/l	0.00	1.10	2000	V	
52	Cr	72		1	318.20 ug/l	0.00	1.08	2000	Cr	
55	Mn	72		1	1880.00 ug/l	0.00	1.07	5000	Mn	
57	Fe	72		1	159100.00 ug/l	0.00	1.33	200000	Fe	
59	Co	72		1	235.30 ug/l	0.00	0.31	2000	Co	
60	Ni	72		1	413.90 ug/l	0.00	0.28	2000	Ni	
63	Cu	72		1	412.30 ug/l	0.00	1.41	5000	Cu	
66	Zn	72		1	1754.00 ug/l	0.00	1.39	5000	Zn	
75	As	72		1	250.20 ug/l	0.00	0.26	2000	As	
78	Se	72		1	212.60 ug/l	0.00	0.39	2000	Se	
88	Sr	72		2	503.90 ug/l	0.00	0.50	5000	Sr	
89	Y	72		1	19.91 ug/l	0.00	0.73	2000	Y	
90	Zr	72		1	224.60 ug/l	0.00	0.41	2000	Zr	
93	Nb	72		1	54.81 ug/l	0.00	0.71	2000	Nb	
95	Mo	72		2	214.60 ug/l	0.00	1.37	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	25.86	2000	Ru	
103	Rh	72		1	0.05 ug/l	0.00	2.75	2000	Rh	
105	Pd	72		1	0.07 ug/l	0.00	8.79	2000	Pd	
107	Ag	115		2	20.80 ug/l	0.00	1.41	400	Ag	
111	Cd	115		2	205.30 ug/l	0.00	0.75	2000	Cd	
118	Sn	115		2	597.30 ug/l	0.00	0.47	2000	Sn	
121	Sb	165		2	57.18 ug/l	0.00	0.65	1000	Sb	
125	Te	165		1	0.14 ug/l	0.00	29.53	2000	Te	
133	Cs	165		1	1.32 ug/l	0.00	1.27	2000	Cs	
137	Ba	165		2	918.90 ug/l	0.00	1.41	5000	Ba	
139	La	165		1	20.54 ug/l	0.00	1.42	2000	La	
140	Ce	165		1	46.05 ug/l	0.00	1.54	2000	Ce	
141	Pr	165		1	5.40 ug/l	0.00	2.97	2000	Pr	
146	Nd	165		1	21.79 ug/l	0.00	1.63	2000	Nd	
147	Sm	165		2	204.10 ug/l	0.00	0.65	2000	Sm	
178	Hf	165		1	0.68 ug/l	0.00	0.67	2000	Hf	
181	Ta	165		1	-0.02 ug/l	0.00	212.40	2000	Ta	
182	W	197		1	180.30 ug/l	0.00	1.32	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	32.07	2000	Pt	
205	Tl	197		2	210.30 ug/l	0.00	0.95	2000	Tl	
206	(Pb)	197		2	1316.00 ug/l	0.00	0.98	2000	(Pb)	
207	(Pb)	197		2	1275.00 ug/l	0.00	0.24	2000	(Pb)	
208	Pb	197		2	1303.00 ug/l	0.00	0.17	5000	Pb	
209	Bi	197		1	202.90 ug/l	0.00	0.30	2000	Bi	
232	Th	197		2	209.50 ug/l	0.00	0.29	2000	Th	
238	U	197		2	213.70 ug/l	0.00	0.66	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6362712	0.70	6939269	91.7	70 - 140	Li	
45	Sc	1	461702	0.33	481965	95.8	70 - 140	Sc	
45	Sc	2	7176222	0.51	7351212	97.6	70 - 140	Sc	
72	Ge	1	263387	1.30	284165	92.7	70 - 140	Ge	
72	Ge	2	1356586	0.73	1476622	91.9	70 - 140	Ge	
115	In	2	8243789	0.50	8960157	92.0	70 - 140	In	
165	Ho	1	6238244	0.67	6560437	95.1	70 - 140	Ho	
165	Ho	2	11303289	0.42	11869600	95.2	70 - 140	Ho	
197	Au	1	1984718	0.85	2238589	88.7	70 - 140	Au	
197	Au	2	2429221	0.34	2712431	89.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\136SMPL.D\136SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\136SMPL.D\136SMPL.D#
Date Acquired: Apr 14 2010 05:22 am
Operator:
Sample Name: LWXFMA
Misc Info:
Vial Number: 4107
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:23 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	71.05 ug/l	0.00	1.56	1000	Li	
9	Be	6		2	5.56 ug/l	0.00	0.30	1000	Be	
11	B	6		2	506.10 ug/l	0.00	2.33	2000	B	
23	Na	45		1	1329.00 ug/l	0.00	1.22	200000	Na	
24	Mg	45		1	14160.00 ug/l	0.00	0.61	200000	Mg	
27	Al	45		1	13590.00 ug/l	0.00	0.72	200000	Al	
28	Si	45		2	4410.00 ug/l	0.00	4.92	200000	Si	
29	Si	45		2	4447.00 ug/l	0.00	3.65	200000	Si	
31	P	45		1	2255.00 ug/l	0.00	0.41	200000	P	
34	S	45		1	4196.00 ug/l	0.00	1.72	200000	S	
34	S	45		2	5016.00 ug/l	0.00	2.77	200000	S	
39	K	45		1	3228.00 ug/l	0.00	0.58	200000	K	
44	Ca	45		2	76130.00 ug/l	0.00	0.85	200000	Ca	
47	Ti	72		2	383.80 ug/l	0.00	6.04	5000	Ti	
51	V	72		1	136.40 ug/l	0.00	0.53	2000	V	
52	Cr	72		1	229.30 ug/l	0.00	0.65	2000	Cr	
55	Mn	72		1	1346.00 ug/l	0.00	1.97	5000	Mn	
57	Fe	72		1	157700.00 ug/l	0.00	1.81	200000	Fe	
59	Co	72		1	41.74 ug/l	0.00	0.03	2000	Co	
60	Ni	72		1	120.20 ug/l	0.00	0.66	2000	Ni	
63	Cu	72		1	231.80 ug/l	0.00	2.23	5000	Cu	
66	Zn	72		1	1842.00 ug/l	0.00	1.98	5000	Zn	
75	As	72		1	130.90 ug/l	0.00	0.44	2000	As	
78	Se	72		1	51.41 ug/l	0.00	2.23	2000	Se	
88	Sr	72		2	295.10 ug/l	0.00	2.40	5000	Sr	
89	Y	72		1	13.40 ug/l	0.00	0.42	2000	Y	
90	Zr	72		1	66.47 ug/l	0.00	0.92	2000	Zr	
93	Nb	72		1	2.99 ug/l	0.00	12.68	2000	Nb	
95	Mo	72		2	59.93 ug/l	0.00	0.42	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	37.67	2000	Ru	
103	Rh	72		1	0.07 ug/l	0.00	2.36	2000	Rh	
105	Pd	72		1	0.04 ug/l	0.00	4.28	2000	Pd	
107	Ag	115		2	20.86 ug/l	0.00	3.77	400	Ag	
111	Cd	115		2	12.68 ug/l	0.00	1.70	2000	Cd	
118	Sn	115		2	569.90 ug/l	0.00	4.84	2000	Sn	
121	Sb	165		2	48.50 ug/l	0.00	1.15	1000	Sb	
125	Te	165		1	0.02 ug/l	0.00	203.50	2000	Te	
133	Cs	165		1	0.96 ug/l	0.00	0.82	2000	Cs	
137	Ba	165		2	442.80 ug/l	0.00	1.09	5000	Ba	
139	La	165		1	13.84 ug/l	0.00	0.82	2000	La	
140	Ce	165		1	30.74 ug/l	0.00	2.94	2000	Ce	
141	Pr	165		1	3.95 ug/l	0.00	0.70	2000	Pr	
146	Nd	165		1	16.35 ug/l	0.00	0.17	2000	Nd	
147	Sm	165		2	96.71 ug/l	0.00	0.73	2000	Sm	
178	Hf	165		1	0.45 ug/l	0.00	5.41	2000	Hf	
181	Ta	165		1	0.08 ug/l	0.00	61.03	2000	Ta	
182	W	197		1	52.28 ug/l	0.00	1.03	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	11.36	2000	Pt	
205	Tl	197		2	21.06 ug/l	0.00	0.49	2000	Tl	
206	(Pb)	197		2	1576.00 ug/l	0.00	0.63	2000	(Pb)	
207	(Pb)	197		2	1496.00 ug/l	0.00	0.53	2000	(Pb)	
208	Pb	197		2	1534.00 ug/l	0.00	0.76	5000	Pb	
209	Bi	197		1	0.78 ug/l	0.00	2.00	2000	Bi	
232	Th	197		2	30.89 ug/l	0.00	1.84	2000	Th	
238	U	197		2	11.47 ug/l	0.00	0.24	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6463284	0.94	6939269	93.1	70 - 140	Li	
45	Sc	1	447372	0.22	481965	92.8	70 - 140	Sc	
45	Sc	2	7141701	1.24	7351212	97.1	70 - 140	Sc	
72	Ge	1	259104	1.23	284165	91.2	70 - 140	Ge	
72	Ge	2	1356770	0.86	1476622	91.9	70 - 140	Ge	
115	In	2	8228368	2.16	8960157	91.8	70 - 140	In	
165	Ho	1	6217829	1.51	6560437	94.8	70 - 140	Ho	
165	Ho	2	11463043	0.58	11869600	96.6	70 - 140	Ho	
197	Au	1	2011203	0.74	2238589	89.8	70 - 140	Au	
197	Au	2	2459210	0.28	2712431	90.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\137SMPL.D\137SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\137SMPL.D\137SMPL.D#
Date Acquired: Apr 14 2010 05:29 am
Operator:
Sample Name: LWXPW
Misc Info:
Vial Number: 4108
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 5.00
Total Dil Factor: 5.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	40.20 ug/l	0.00	1.78	1000	Li	
9	Be	6		2	1.05 ug/l	0.00	2.21	1000	Be	
11	B	6		2	15.74 ug/l	0.00	2.41	2000	B	
23	Na	45		1	394.50 ug/l	0.00	1.70	200000	Na	
24	Mg	45		1	30240.00 ug/l	0.00	1.35	200000	Mg	
27	Al	45		1	20770.00 ug/l	0.00	1.42	200000	Al	
28	Si	45		2	2970.00 ug/l	0.00	9.88	200000	Si	
29	Si	45		2	2979.00 ug/l	0.00	9.74	200000	Si	
31	P	45		1	1180.00 ug/l	0.00	1.71	200000	P	
34	S	45		1	14.37 ug/l	0.00	49.51	200000	S	
34	S	45		2	-175.70 ug/l	0.00	5.55	200000	S	
39	K	45		1	3433.00 ug/l	0.00	1.13	200000	K	
44	Ca	45		2	95760.00 ug/l	0.00	1.16	200000	Ca	
47	Ti	72		2	300.20 ug/l	0.00	2.23	5000	Ti	
51	V	72		1	68.19 ug/l	0.00	0.98	2000	V	
52	Cr	72		1	36.79 ug/l	0.00	0.23	2000	Cr	
55	Mn	72		1	1472.00 ug/l	0.00	0.45	5000	Mn	
57	Fe	72		1	40930.00 ug/l	0.00	1.06	200000	Fe	
59	Co	72		1	23.13 ug/l	0.00	0.54	2000	Co	
60	Ni	72		1	42.83 ug/l	0.00	0.61	2000	Ni	
63	Cu	72		1	52.22 ug/l	0.00	0.91	5000	Cu	
66	Zn	72		1	189.50 ug/l	0.00	0.75	5000	Zn	
75	As	72		1	7.87 ug/l	0.00	2.01	2000	As	
78	Se	72		1	3.08 ug/l	0.00	4.63	2000	Se	
88	Sr	72		2	175.80 ug/l	0.00	0.73	5000	Sr	
89	Y	72		1	26.52 ug/l	0.00	0.61	2000	Y	
90	Zr	72		1	14.16 ug/l	0.00	1.01	2000	Zr	
93	Nb	72		1	0.89 ug/l	0.00	14.92	2000	Nb	
95	Mo	72		2	1.49 ug/l	0.00	1.01	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	0.46	2000	Ru	
103	Rh	72		1	-0.01 ug/l	0.00	19.09	2000	Rh	
105	Pd	72		1	0.05 ug/l	0.00	7.05	2000	Pd	
107	Ag	115		2	0.21 ug/l	0.00	1.91	400	Ag	
111	Cd	115		2	0.58 ug/l	0.00	3.50	2000	Cd	
118	Sn	115		2	8.16 ug/l	0.00	2.67	2000	Sn	
121	Sb	165		2	0.12 ug/l	0.00	3.52	1000	Sb	
125	Te	165		1	-0.03 ug/l	0.00	64.48	2000	Te	
133	Cs	165		1	1.58 ug/l	0.00	3.96	2000	Cs	
137	Ba	165		2	222.10 ug/l	0.00	1.41	5000	Ba	
139	La	165		1	24.67 ug/l	0.00	2.56	2000	La	
140	Ce	165		1	61.07 ug/l	0.00	4.01	2000	Ce	
141	Pr	165		1	8.12 ug/l	0.00	3.35	2000	Pr	
146	Nd	165		1	34.86 ug/l	0.00	1.85	2000	Nd	
147	Sm	165		2	7.30 ug/l	0.00	2.46	2000	Sm	
178	Hf	165		1	0.21 ug/l	0.00	7.98	2000	Hf	
181	Ta	165		1	-0.15 ug/l	0.00	7.90	2000	Ta	
182	W	197		1	1.85 ug/l	0.00	14.14	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	56.12	2000	Pt	
205	Tl	197		2	1.17 ug/l	0.00	3.81	2000	Tl	
206	[Pb]	197		2	45.03 ug/l	0.00	1.08	2000	[Pb]	
207	[Pb]	197		2	42.82 ug/l	0.00	0.93	2000	[Pb]	
208	Pb	197		2	44.20 ug/l	0.00	0.91	5000	Pb	
209	Bi	197		1	0.22 ug/l	0.00	3.01	2000	Bi	
232	Th	197		2	6.07 ug/l	0.00	0.40	2000	Th	
238	U	197		2	1.21 ug/l	0.00	2.38	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6666530	1.05	6939269	96.1	70 - 140	Li	
45	Sc	1	458571	0.26	481965	95.1	70 - 140	Sc	
45	Sc	2	7270074	0.54	7351212	98.9	70 - 140	Sc	
72	Ge	1	254767	1.11	284165	89.7	70 - 140	Ge	
72	Ge	2	1352318	1.54	1476622	91.6	70 - 140	Ge	
115	In	2	8336918	0.80	8960157	93.0	70 - 140	In	
165	Ho	1	6265624	1.18	6560437	95.5	70 - 140	Ho	
165	Ho	2	11691175	0.61	11869600	98.5	70 - 140	Ho	
197	Au	1	2026416	0.57	2238589	90.5	70 - 140	Au	
197	Au	2	2535679	0.44	2712432	93.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\138_CCV.D\138_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\138_CCV.D\138_CCV.D#
Date Acquired: Apr 14 2010 05:37 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	96.84	ug/l	1.16	100	96.8	90 - 110	Li	
9	Be	6	2	97.77	ug/l	1.37	100	97.8	90 - 110	Be	
11	B	6	2	198.80	ug/l	1.48	200	99.4	90 - 110	B	
23	Na	45	1	1295.00	ug/l	5.48	1250	103.6	90 - 110	Na	
24	Mg	45	1	2568.00	ug/l	7.25	2500	102.7	90 - 110	Mg	
27	Al	45	1	1237.00	ug/l	5.80	1250	99.0	90 - 110	Al	
28	Si	45	2	1212.00	ug/l	1.86	1250	97.0	90 - 110	Si	
29	Si	45	2	1204.00	ug/l	2.45	1250	96.3	90 - 110	Si	
31	P	45	1	1246.00	ug/l	4.91	1250	99.7	90 - 110	P	
34	S	45	1	19810.00	ug/l	4.68	20000	99.1	90 - 110	S	
34	S	45	2	19560.00	ug/l	0.40	20000	97.8	90 - 110	S	
39	K	45	1	1269.00	ug/l	6.77	1250	101.5	90 - 110	K	
44	Ca	45	2	2451.00	ug/l	0.42	2500	98.0	90 - 110	Ca	
47	Ti	72	2	99.34	ug/l	0.90	100	99.3	90 - 110	Ti	
51	V	72	1	105.40	ug/l	4.58	100	105.4	90 - 110	V	
52	Cr	72	1	105.20	ug/l	4.87	100	105.2	90 - 110	Cr	
55	Mn	72	1	103.30	ug/l	5.29	100	103.3	90 - 110	Mn	
57	Fe	72	1	2629.00	ug/l	6.10	2500	105.2	90 - 110	Fe	
59	Co	72	1	105.00	ug/l	4.59	100	105.0	90 - 110	Co	
60	Ni	72	1	104.70	ug/l	4.50	100	104.7	90 - 110	Ni	
63	Cu	72	1	105.70	ug/l	4.04	100	105.7	90 - 110	Cu	
66	Zn	72	1	102.40	ug/l	4.99	100	102.4	90 - 110	Zn	
75	As	72	1	103.30	ug/l	3.70	100	103.3	90 - 110	As	
78	Se	72	1	101.50	ug/l	4.31	100	101.5	90 - 110	Se	
88	Sr	72	2	99.24	ug/l	0.67	100	99.2	90 - 110	Sr	
89	Y	72	1	105.70	ug/l	4.31	100	105.7	90 - 110	Y	
90	Zr	72	1	102.60	ug/l	4.38	100	102.6	90 - 110	Zr	
93	Nb	72	1	52.48	ug/l	4.27	50	105.0	90 - 110	Nb	
95	Mo	72	2	97.04	ug/l	1.24	100	97.0	90 - 110	Mo	
101	Ru	72	1	106.00	ug/l	4.18	100	106.0	90 - 110	Ru	
103	Rh	72	1	107.10	ug/l	3.95	100	107.1	90 - 110	Rh	
105	Pd	72	1	10.40	ug/l	3.22	10	104.0	90 - 110	Pd	
107	Ag	115	2	19.60	ug/l	1.66	20	98.0	90 - 110	Ag	
111	Cd	115	2	95.75	ug/l	1.38	100	95.8	90 - 110	Cd	
118	Sn	115	2	100.30	ug/l	0.53	100	100.3	90 - 110	Sn	
121	Sb	165	2	48.51	ug/l	0.29	50	97.0	90 - 110	Sb	
125	Te	165	1	98.04	ug/l	8.04	100	98.0	90 - 110	Te	
133	Cs	165	1	99.77	ug/l	7.31	100	99.8	90 - 110	Cs	
137	Ba	165	2	96.88	ug/l	1.31	100	96.9	90 - 110	Ba	
139	La	165	1	101.90	ug/l	8.00	100	101.9	90 - 110	La	
140	Ce	165	1	102.60	ug/l	8.31	100	102.6	90 - 110	Ce	
141	Pr	165	1	102.30	ug/l	8.25	100	102.3	90 - 110	Pr	
146	Nd	165	1	99.39	ug/l	7.12	100	99.4	90 - 110	Nd	
147	Sm	165	2	95.31	ug/l	1.00	100	95.3	90 - 110	Sm	
178	Hf	165	1	89.68	ug/l	7.88	100	89.7	90 - 110	Hf	Fail
181	Ta	165	1	97.62	ug/l	7.05	100	97.6	90 - 110	Ta	
182	W	197	1	95.10	ug/l	4.42	100	95.1	90 - 110	W	
195	Pt	197	1	10.00	ug/l	3.84	10	100.0	90 - 110	Pt	
205	Tl	197	2	97.41	ug/l	1.31	100	97.4	90 - 110	Tl	
206	(Pb)	197	2	99.60	ug/l	2.06	100	99.6	90 - 110	(Pb)	
207	(Pb)	197	2	97.18	ug/l	2.57	100	97.2	90 - 110	(Pb)	
208	Pb	197	2	98.35	ug/l	1.43	100	98.4	90 - 110	Pb	
209	Bi	197	1	101.60	ug/l	4.62	100	101.6	90 - 110	Bi	
232	Th	197	2	89.10	ug/l	0.25	100	89.1	90 - 110	Th	Fail
238	U	197	2	95.59	ug/l	0.24	100	95.6	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6756218	0.97	6939269	97.4	70 - 140	Li	
45	Sc	1	437037	5.72	481965	90.7	70 - 140	Sc	
45	Sc	2	7308386	1.30	7351212	99.4	70 - 140	Sc	
72	Ge	1	266717	3.79	284165	93.9	70 - 140	Ge	
72	Ge	2	1436268	1.11	1476622	97.3	70 - 140	Ge	
115	In	2	8859652	1.10	8960157	98.9	70 - 140	In	
165	Ho	1	6252257	6.84	6560437	95.3	70 - 140	Ho	
165	Ho	2	11814928	0.55	11869600	99.5	70 - 140	Ho	
197	Au	1	2127026	3.23	2238589	95.0	70 - 140	Au	
197	Au	2	2676899	0.42	2712431	98.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\139_CCB.D\139_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\139_CCB.D\139_CCB.D#
Date Acquired: Apr 14 2010 05:44 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	-0.036	ug/l	552.19	1.35	Li	
9 Be	6	2	0.005	ug/l	9.54	0.23	Be	
11 B	6	2	0.029	ug/l	578.62	14.94	B	
23 Na	45	1	1.890	ug/l	19.00	10.60	Na	
24 Mg	45	1	0.105	ug/l	47.98	3.46	Mg	
27 Al	45	1	-0.890	ug/l	12.51	8.94	Al	
28 Si	45	2	-0.266	ug/l	91.12	35.60	Si	
29 Si	45	2	-0.873	ug/l	55.00	35.60	Si	
31 P	45	1	2.033	ug/l	57.01	16.46	P	
34 S	45	1	-145.600	ug/l	41.92	666.00	S	
34 S	45	2	-147.600	ug/l	13.73	666.00	S	
39 K	45	1	-1.168	ug/l	10.65	16.66	K	
44 Ca	45	2	-0.870	ug/l	39.98	97.40	Ca	
47 Ti	72	2	0.338	ug/l	17.73	1.15	Ti	
51 V	72	1	-0.037	ug/l	23.36	4.74	V	
52 Cr	72	1	-0.006	ug/l	64.23	6.52	Cr	
55 Mn	72	1	-0.001	ug/l	449.55	0.47	Mn	
57 Fe	72	1	8.507	ug/l	31.49	40.70	Fe	
59 Co	72	1	0.003	ug/l	16.54	0.43	Co	
60 Ni	72	1	-0.005	ug/l	144.64	0.46	Ni	
63 Cu	72	1	-0.023	ug/l	105.19	0.19	Cu	
66 Zn	72	1	0.062	ug/l	45.19	7.48	Zn	
75 As	72	1	0.095	ug/l	47.56	1.89	As	
78 Se	72	1	0.279	ug/l	43.67	0.52	Se	
88 Sr	72	2	0.001	ug/l	71.86	0.23	Sr	
89 Y	72	1	0.002	ug/l	65.18	0.42	Y	
90 Zr	72	1	0.161	ug/l	13.10	0.50	Zr	
93 Nb	72	1	1.387	ug/l	19.12	4.46	Nb	
95 Mo	72	2	0.233	ug/l	8.57	0.43	Mo	
101 Ru	72	1	0.003	ug/l	183.66	2.00	Ru	
103 Rh	72	1	0.002	ug/l	131.33	1.63	Rh	
105 Pd	72	1	0.001	ug/l	60.79	0.08	Pd	
107 Ag	115	2	0.000	ug/l	2238.60	0.08	Ag	
111 Cd	115	2	0.008	ug/l	74.96	0.11	Cd	
118 Sn	115	2	1.321	ug/l	6.06	0.30	Sn	FAIL
121 Sb	165	2	-0.047	ug/l	5.13	2.24	Sb	
125 Te	165	1	0.154	ug/l	26.72	1.07	Te	
133 Cs	165	1	0.048	ug/l	4.79	0.11	Cs	
137 Ba	165	2	-0.002	ug/l	223.89	0.39	Ba	
139 La	165	1	0.003	ug/l	28.58	0.10	La	
140 Ce	165	1	0.003	ug/l	71.73	1.77	Ce	
141 Pr	165	1	0.002	ug/l	29.54	0.08	Pr	
146 Nd	165	1	0.001	ug/l	240.72	0.21	Nd	
147 Sm	165	2	0.002	ug/l	118.12	0.65	Sm	
178 Hf	165	1	0.273	ug/l	13.06	2.26	Hf	
181 Ta	165	1	0.145	ug/l	19.08	1.46	Ta	
182 W	197	1	1.853	ug/l	13.58	1.68	W	FAIL
195 Pt	197	1	0.002	ug/l	36.07	0.12	Pt	
205 Tl	197	2	1.169	ug/l	3.76	1.10	Tl	FAIL
206 (Pb)	197	2	0.038	ug/l	16.55	2.00	(Pb)	
207 (Pb)	197	2	0.043	ug/l	36.04	2.00	(Pb)	
208 Pb	197	2	0.034	ug/l	28.71	0.35	Pb	
209 Bi	197	1	-0.014	ug/l	5.86	1.46	Bi	
232 Th	197	2	0.930	ug/l	8.34	1.10	Th	
238 U	197	2	0.038	ug/l	8.65	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6878441	0.57	6939269	99.1	70 - 140	Li	
45 Sc	1	450507	1.01	481965	93.5	70 - 140	Sc	
45 Sc	2	7107994	1.04	7351212	96.7	70 - 140	Sc	
72 Ge	1	265355	0.74	284165	93.4	70 - 140	Ge	
72 Ge	2	1400221	0.88	1476622	94.8	70 - 140	Ge	
115 In	2	8742122	0.57	8960159	97.6	70 - 140	In	
165 Ho	1	6380039	1.01	6560437	97.3	70 - 140	Ho	
165 Ho	2	11629142	1.02	11869600	98.0	70 - 140	Ho	
197 Au	1	2143691	0.55	2238589	95.8	70 - 140	Au	
197 Au	2	2630615	1.94	2712431	97.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\140SMPL.D\140SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\140SMPL.D\140SMPL.D#
Date Acquired: Apr 14 2010 05:51 am
Operator:
Sample Name: LWXFM
Misc Info:
Vial Number: 4109
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	56.30 ug/l	0.00	0.87	1000	Li	
9	Be	6		2	1.95 ug/l	0.00	1.49	1000	Be	
11	B	6		2	101.30 ug/l	0.00	2.61	2000	B	
23	Na	45		1	2054.00 ug/l	0.00	5.96	200000	Na	
24	Mg	45		1	33640.00 ug/l	0.00	5.45	200000	Mg	
27	Al	45		1	32040.00 ug/l	0.00	6.35	200000	Al	
28	Si	45		2	2980.00 ug/l	0.00	2.32	200000	Si	
29	Si	45		2	2966.00 ug/l	0.00	3.66	200000	Si	
31	P	45		1	4250.00 ug/l	0.00	5.76	200000	P	
34	S	45		1	10720.00 ug/l	0.00	4.31	200000	S	
34	S	45		2	11730.00 ug/l	0.00	0.28	200000	S	
39	K	45		1	5594.00 ug/l	0.00	5.87	200000	K	
44	Ca	45		2	190100.00 ug/l	0.00	0.38	200000	Ca	
47	Ti	72		2	680.20 ug/l	0.00	1.28	5000	Ti	
51	V	72		1	81.72 ug/l	0.00	4.81	2000	V	
52	Cr	72		1	317.90 ug/l	0.00	3.78	2000	Cr	
55	Mn	72		1	3213.00 ug/l	0.00	3.20	5000	Mn	
57	Fe	72		1	383200.00 ug/l	0.00	3.79	200000	Fe	>LDR
59	Co	72		1	52.42 ug/l	0.00	4.49	2000	Co	
60	Ni	72		1	171.80 ug/l	0.00	4.06	2000	Ni	
63	Cu	72		1	523.80 ug/l	0.00	4.65	5000	Cu	
66	Zn	72		1	4023.00 ug/l	0.00	4.03	5000	Zn	
75	As	72		1	75.57 ug/l	0.00	5.42	2000	As	
78	Se	72		1	5.28 ug/l	0.00	3.88	2000	Se	
88	Sr	72		2	597.60 ug/l	0.00	1.37	5000	Sr	
89	Y	72		1	33.20 ug/l	0.00	5.45	2000	Y	
90	Zr	72		1	35.23 ug/l	0.00	4.80	2000	Zr	
93	Nb	72		1	5.01 ug/l	0.00	5.68	2000	Nb	
95	Mo	72		2	28.74 ug/l	0.00	1.24	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	226.89	2000	Ru	
103	Rh	72		1	0.19 ug/l	0.00	6.27	2000	Rh	
105	Pd	72		1	0.10 ug/l	0.00	9.14	2000	Pd	
107	Ag	115		2	5.32 ug/l	0.00	1.45	400	Ag	
111	Cd	115		2	19.41 ug/l	0.00	1.01	2000	Cd	
118	Sn	115		2	1405.00 ug/l	0.00	0.64	2000	Sn	
121	Sb	165		2	5.56 ug/l	0.00	1.81	1000	Sb	
125	Te	165		1	0.17 ug/l	0.00	14.92	2000	Te	
133	Cs	165		1	2.50 ug/l	0.00	7.34	2000	Cs	
137	Ba	165		2	1062.00 ug/l	0.00	1.43	5000	Ba	
139	La	165		1	35.74 ug/l	0.00	7.01	2000	La	
140	Ce	165		1	79.10 ug/l	0.00	5.96	2000	Ce	
141	Pr	165		1	10.12 ug/l	0.00	6.32	2000	Pr	
146	Nd	165		1	41.67 ug/l	0.00	6.79	2000	Nd	
147	Sm	165		2	8.95 ug/l	0.00	0.90	2000	Sm	
178	Hf	165		1	3.77 ug/l	0.00	5.79	2000	Hf	
181	Ta	165		1	0.41 ug/l	0.00	10.34	2000	Ta	
182	W	197		1	5.54 ug/l	0.00	4.78	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	12.54	2000	Pt	
205	Tl	197		2	1.41 ug/l	0.00	0.88	2000	Tl	
206	(Pb)	197		2	4090.00 ug/l	0.00	0.41	2000	(Pb)	
207	(Pb)	197		2	3934.00 ug/l	0.00	0.96	2000	(Pb)	
208	Pb	197		2	4006.00 ug/l	0.00	0.87	5000	Pb	
209	Bi	197		1	2.09 ug/l	0.00	13.01	2000	Bi	
232	Th	197		2	17.50 ug/l	0.00	3.37	2000	Th	
238	U	197		2	3.66 ug/l	0.00	1.40	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6238148	0.96	6939269	89.9	70 - 140	Li	
45	Sc	1	445710	5.30	481965	92.5	70 - 140	Sc	
45	Sc	2	6922531	0.29	7351212	94.2	70 - 140	Sc	
72	Ge	1	255605	3.75	284165	89.9	70 - 140	Ge	
72	Ge	2	1332044	1.41	1476622	90.2	70 - 140	Ge	
115	In	2	7736808	0.96	8960157	86.3	70 - 140	In	
165	Ho	1	5886612	5.93	6560437	89.7	70 - 140	Ho	
165	Ho	2	10899611	1.06	11869600	91.8	70 - 140	Ho	
197	Au	1	1746383	5.78	2238589	78.0	70 - 140	Au	
197	Au	2	2213937	0.63	2712431	81.6	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\be.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\141SMPL.D\141SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\141SMPL.D\141SMPL.D#
Date Acquired: Apr 14 2010 05:58 am
Operator:
Sample Name: LWXPMV
Misc Info:
Vial Number: 4110
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	11.53 ug/l	0.00	1.07	1000	Li	
9	Be	6	2	0.40 ug/l	0.00	1.70	1000	Be	
11	B	6	2	14.50 ug/l	0.00	1.62	2000	B	
23	Na	45	1	448.80 ug/l	0.00	2.48	200000	Na	
24	Mg	45	1	7088.00 ug/l	0.00	1.03	200000	Mg	
27	Al	45	1	6986.00 ug/l	0.00	0.23	200000	Al	
28	Si	45	2	1249.00 ug/l	0.00	30.75	200000	Si	
29	Si	45	2	1077.00 ug/l	0.00	8.56	200000	Si	
31	P	45	1	930.90 ug/l	0.00	2.28	200000	P	
34	S	45	1	2034.00 ug/l	0.00	2.61	200000	S	
34	S	45	2	2030.00 ug/l	0.00	2.61	200000	S	
39	K	45	1	1260.00 ug/l	0.00	1.42	200000	K	
44	Ca	45	2	39340.00 ug/l	0.00	0.45	200000	Ca	
47	Ti	72	2	220.10 ug/l	0.00	2.41	5000	Ti	
51	V	72	1	16.92 ug/l	0.00	0.36	2000	V	
52	Cr	72	1	69.25 ug/l	0.00	0.50	2000	Cr	
55	Mn	72	1	697.90 ug/l	0.00	0.33	5000	Mn	
57	Fe	72	1	82500.00 ug/l	0.00	0.17	200000	Fe	
59	Co	72	1	11.24 ug/l	0.00	0.46	2000	Co	
60	Ni	72	1	37.84 ug/l	0.00	0.37	2000	Ni	
63	Cu	72	1	121.40 ug/l	0.00	0.27	5000	Cu	
66	Zn	72	1	999.50 ug/l	0.00	1.30	5000	Zn	
75	As	72	1	16.38 ug/l	0.00	0.36	2000	As	
78	Se	72	1	1.14 ug/l	0.00	8.05	2000	Se	
88	Sr	72	2	124.40 ug/l	0.00	0.48	5000	Sr	
89	Y	72	1	6.88 ug/l	0.00	1.59	2000	Y	
90	Zr	72	1	6.57 ug/l	0.00	0.79	2000	Zr	
93	Nb	72	1	0.64 ug/l	0.00	22.33	2000	Nb	
95	Mo	72	2	5.80 ug/l	0.00	0.52	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	14.29	2000	Ru	
103	Rh	72	1	0.03 ug/l	0.00	8.26	2000	Rh	
105	Pd	72	1	0.03 ug/l	0.00	4.56	2000	Pd	
107	Ag	115	2	1.07 ug/l	0.00	0.51	400	Ag	
111	Cd	115	2	4.16 ug/l	0.00	2.80	2000	Cd	
118	Sn	115	2	257.80 ug/l	0.00	1.18	2000	Sn	
121	Sb	165	2	1.04 ug/l	0.00	1.76	1000	Sb	
125	Te	165	1	0.08 ug/l	0.00	74.76	2000	Te	
133	Cs	165	1	0.49 ug/l	0.00	2.77	2000	Cs	
137	Ba	165	2	221.00 ug/l	0.00	2.20	5000	Ba	
139	La	165	1	7.05 ug/l	0.00	1.38	2000	La	
140	Ce	165	1	15.92 ug/l	0.00	1.41	2000	Ce	
141	Pr	165	1	2.00 ug/l	0.00	1.80	2000	Pr	
146	Nd	165	1	8.31 ug/l	0.00	1.90	2000	Nd	
147	Sm	165	2	1.73 ug/l	0.00	0.96	2000	Sm	
178	Hf	165	1	0.25 ug/l	0.00	10.67	2000	Hf	
181	Ta	165	1	-0.12 ug/l	0.00	21.84	2000	Ta	
182	W	197	1	0.80 ug/l	0.00	10.82	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	65.99	2000	Pt	
205	Tl	197	2	0.30 ug/l	0.00	2.35	2000	Tl	
206	(Pb)	197	2	763.20 ug/l	0.00	0.99	2000	(Pb)	
207	(Pb)	197	2	736.50 ug/l	0.00	1.19	2000	(Pb)	
208	Pb	197	2	754.60 ug/l	0.00	1.00	5000	Pb	
209	Bi	197	1	0.33 ug/l	0.00	2.84	2000	Bi	
232	Th	197	2	2.10 ug/l	0.00	1.41	2000	Th	
238	U	197	2	0.64 ug/l	0.00	1.31	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6747257	0.19	6939269	97.2	70 - 140	Li	
45	Sc	1	453606	0.70	481965	94.1	70 - 140	Sc	
45	Sc	2	7153931	0.29	7351212	97.3	70 - 140	Sc	
72	Ge	1	260127	0.82	284165	91.5	70 - 140	Ge	
72	Ge	2	1374262	0.39	1475622	93.1	70 - 140	Ge	
115	In	2	8604338	0.19	8960157	96.0	70 - 140	In	
165	Ho	1	6355163	0.27	6560437	96.9	70 - 140	Ho	
165	Ho	2	11553662	1.03	11869600	97.3	70 - 140	Ho	
197	Au	1	2095482	0.72	2238589	93.6	70 - 140	Au	
197	Au	2	2614458	0.44	2712431	96.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\1428MPL.D\1428MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1428MPL.D\1428MPL.D#
Date Acquired: Apr 14 2010 06:06 am
Operator:
Sample Name: LWXPMS
Misc Info:
Vial Number: 4111
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	600.20 ug/l	0.00	1.62	1000	Li	
9	Be	6		2	524.30 ug/l	0.00	1.16	1000	Be	
11	B	6		2	631.70 ug/l	0.00	0.51	2000	B	
23	Na	45		1	7121.00 ug/l	0.00	1.61	200000	Na	
24	Mg	45		1	32170.00 ug/l	0.00	1.01	200000	Mg	
27	Al	45		1	38370.00 ug/l	0.00	0.92	200000	Al	
28	Si	45		2	4755.00 ug/l	0.00	3.75	200000	Si	
29	Si	45		2	4720.00 ug/l	0.00	3.37	200000	Si	
31	P	45		1	4119.00 ug/l	0.00	1.03	200000	P	
34	S	45		1	15420.00 ug/l	0.00	1.16	200000	S	
34	S	45		2	16750.00 ug/l	0.00	0.57	200000	S	
39	K	45		1	11270.00 ug/l	0.00	1.63	200000	K	
44	Ca	45		2	192500.00 ug/l	0.00	0.79	200000	Ca	
47	Ti	72		2	1112.00 ug/l	0.00	2.76	5000	Ti	
51	V	72		1	542.50 ug/l	0.00	0.14	2000	V	
52	Cr	72		1	739.40 ug/l	0.00	0.40	2000	Cr	
55	Mn	72		1	6695.00 ug/l	0.00	1.22	5000	Mn	>LDR
57	Fe	72		1	886600.00 ug/l	0.00	0.83	200000	Fe	>LDR
59	Co	72		1	535.00 ug/l	0.00	0.36	2000	Co	
60	Ni	72		1	690.30 ug/l	0.00	0.82	2000	Ni	
63	Cu	72		1	1272.00 ug/l	0.00	0.25	5000	Cu	
66	Zn	72		1	2468.00 ug/l	0.00	1.07	5000	Zn	
75	As	72		1	591.20 ug/l	0.00	0.34	2000	As	
78	Se	72		1	359.80 ug/l	0.00	0.59	2000	Se	
88	Sr	72		2	1254.00 ug/l	0.00	0.76	5000	Sr	
89	Y	72		1	24.88 ug/l	0.00	0.16	2000	Y	
90	Zr	72		1	486.30 ug/l	0.00	0.83	2000	Zr	
93	Nb	72		1	115.90 ug/l	0.00	1.31	2000	Nb	
95	Mo	72		2	525.00 ug/l	0.00	0.27	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	83.37	2000	Ru	
103	Rh	72		1	0.15 ug/l	0.00	5.34	2000	Rh	
105	Pd	72		1	0.12 ug/l	0.00	8.03	2000	Pd	
107	Ag	115		2	53.44 ug/l	0.00	0.32	400	Ag	
111	Cd	115		2	504.10 ug/l	0.00	0.76	2000	Cd	
118	Sn	115		2	5053.00 ug/l	0.00	0.10	2000	Sn	>LDR
121	Sb	165		2	168.20 ug/l	0.00	0.79	1000	Sb	
125	Te	165		1	0.44 ug/l	0.00	41.35	2000	Te	
133	Cs	165		1	2.62 ug/l	0.00	0.92	2000	Cs	
137	Ba	165		2	1844.00 ug/l	0.00	1.33	5000	Ba	
139	La	165		1	29.29 ug/l	0.00	0.63	2000	La	
140	Ce	165		1	65.79 ug/l	0.00	0.48	2000	Ce	
141	Pr	165		1	8.33 ug/l	0.00	1.23	2000	Pr	
146	Nd	165		1	34.21 ug/l	0.00	1.21	2000	Nd	
147	Sm	165		2	526.00 ug/l	0.00	8.81	2000	Sm	
178	Hf	165		1	3.06 ug/l	0.00	6.10	2000	Hf	
181	Ta	165		1	0.62 ug/l	0.00	22.26	2000	Ta	
182	W	197		1	505.80 ug/l	0.00	1.67	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	19.00	2000	Pt	
205	Tl	197		2	565.70 ug/l	0.00	0.93	2000	Tl	
206	(Pb)	197		2	3477.00 ug/l	0.00	1.63	2000	(Pb)	
207	(Pb)	197		2	3393.00 ug/l	0.00	0.98	2000	(Pb)	
208	Pb	197		2	3449.00 ug/l	0.00	1.22	5000	Pb	
209	Bi	197		1	520.50 ug/l	0.00	0.36	2000	Bi	
232	Th	197		2	574.60 ug/l	0.00	0.73	2000	Th	
238	U	197		2	583.00 ug/l	0.00	1.09	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5580725	0.19	6939269	80.4	70 - 140	Li	
45	Sc	1	421399	0.86	481965	87.4	70 - 140	Sc	
45	Sc	2	6546067	1.16	7351212	89.0	70 - 140	Sc	
72	Ge	1	263593	0.36	284165	92.8	70 - 140	Ge	
72	Ge	2	1354633	0.21	1476622	91.7	70 - 140	Ge	
115	In	2	7233425	0.37	8960157	80.7	70 - 140	In	
165	Ho	1	5387884	0.46	6560437	82.1	70 - 140	Ho	
165	Ho	2	10153439	0.93	11869600	85.5	70 - 140	Ho	
197	Au	1	1570300	0.10	2238589	70.1	70 - 140	Au	
197	Au	2	1984310	0.68	2712431	73.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\143SMPL.D\143SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\143SMPL.D\143SMPL.D#
Date Acquired: Apr 14 2010 06:12 am
Operator:
Sample Name: LWXFMD
Misc Info:
Vial Number: 4112
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	601.70 ug/l	0.00	0.18	1000	Li	
9	Be	6		2	511.60 ug/l	0.00	0.56	1000	Be	
11	B	6		2	631.30 ug/l	0.00	1.08	2000	B	
23	Na	45		1	6896.00 ug/l	0.00	0.62	200000	Na	
24	Mg	45		1	42290.00 ug/l	0.00	0.75	200000	Mg	
27	Al	45		1	52210.00 ug/l	0.00	0.61	200000	Al	
28	Si	45		2	5951.00 ug/l	0.00	2.93	200000	Si	
29	Si	45		2	5782.00 ug/l	0.00	4.47	200000	Si	
31	P	45		1	4361.00 ug/l	0.00	1.31	200000	P	
34	S	45		1	24120.00 ug/l	0.00	1.34	200000	S	
34	S	45		2	25010.00 ug/l	0.00	1.36	200000	S	
39	K	45		1	12700.00 ug/l	0.00	1.50	200000	K	
44	Ca	45		2	208400.00 ug/l	0.00	0.85	200000	Ca	>LDR
47	Ti	72		2	1279.00 ug/l	0.00	1.80	5000	Ti	
51	V	72		1	585.10 ug/l	0.00	0.91	2000	V	
52	Cr	72		1	728.00 ug/l	0.00	1.58	2000	Cr	
55	Mn	72		1	4399.00 ug/l	0.00	0.81	5000	Mn	
57	Fe	72		1	365600.00 ug/l	0.00	0.40	200000	Fe	>LDR
59	Co	72		1	523.90 ug/l	0.00	1.61	2000	Co	
60	Ni	72		1	912.10 ug/l	0.00	0.74	2000	Ni	
63	Cu	72		1	901.20 ug/l	0.00	0.05	5000	Cu	
66	Zn	72		1	3682.00 ug/l	0.00	0.92	5000	Zn	
75	As	72		1	559.80 ug/l	0.00	0.75	2000	As	
78	Se	72		1	451.00 ug/l	0.00	0.38	2000	Se	
88	Sr	72		2	1249.00 ug/l	0.00	1.06	5000	Sr	
89	Y	72		1	46.74 ug/l	0.00	0.35	2000	Y	
90	Zr	72		1	517.00 ug/l	0.00	0.77	2000	Zr	
93	Nb	72		1	128.70 ug/l	0.00	1.16	2000	Nb	
95	Mo	72		2	518.10 ug/l	0.00	1.54	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	187.39	2000	Ru	
103	Rh	72		1	0.16 ug/l	0.00	4.54	2000	Rh	
105	Pd	72		1	0.16 ug/l	0.00	4.54	2000	Pd	
107	Ag	115		2	51.86 ug/l	0.00	0.22	400	Ag	
111	Cd	115		2	489.40 ug/l	0.00	0.47	2000	Cd	
118	Sn	115		2	1541.00 ug/l	0.00	1.21	2000	Sn	
121	Sb	165		2	139.50 ug/l	0.00	1.49	1000	Sb	
125	Te	165		1	0.29 ug/l	0.00	26.92	2000	Te	
133	Cs	165		1	3.33 ug/l	0.00	1.31	2000	Cs	
137	Ba	165		2	2332.00 ug/l	0.00	0.44	5000	Ba	
139	La	165		1	51.19 ug/l	0.00	1.17	2000	La	
140	Ce	165		1	114.80 ug/l	0.00	0.55	2000	Ce	
141	Pr	165		1	13.45 ug/l	0.00	1.38	2000	Pr	
146	Nd	165		1	54.80 ug/l	0.00	1.78	2000	Nd	
147	Sm	165		2	511.30 ug/l	0.00	1.84	2000	Sm	
178	Hf	165		1	2.24 ug/l	0.00	5.66	2000	Hf	
181	Ta	165		1	0.49 ug/l	0.00	22.73	2000	Ta	
182	W	197		1	493.70 ug/l	0.00	1.28	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	13.27	2000	Pt	
205	Tl	197		2	553.80 ug/l	0.00	1.32	2000	Tl	
206	(Pb)	197		2	3470.00 ug/l	0.00	0.73	2000	(Pb)	
207	(Pb)	197		2	3331.00 ug/l	0.00	1.24	2000	(Pb)	
208	Pb	197		2	3391.00 ug/l	0.00	1.18	5000	Pb	
209	Bi	197		1	598.70 ug/l	0.00	0.79	2000	Bi	
232	Th	197		2	549.20 ug/l	0.00	1.76	2000	Th	
238	U	197		2	575.50 ug/l	0.00	1.50	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5656172	0.09	6939269	81.5	70 - 140	Li	
45	Sc	1	437697	1.04	481965	90.8	70 - 140	Sc	
45	Sc	2	6850061	0.40	7351212	93.2	70 - 140	Sc	
72	Ge	1	248886	0.96	284165	87.6	70 - 140	Ge	
72	Ge	2	1304367	0.59	1476622	88.3	70 - 140	Ge	
115	In	2	7599749	0.50	8960157	84.8	70 - 140	In	
165	Ho	1	5610354	0.85	6560437	85.5	70 - 140	Ho	
165	Ho	2	10600755	1.10	11869600	89.3	70 - 140	Ho	
197	Au	1	1671824	1.28	2238589	74.7	70 - 140	Au	
197	Au	2	2182447	0.70	2712431	80.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\144SMPL.D\144SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\144SMPL.D\144SMPL.D#
Date Acquired: Apr 14 2010 06:19 am
Operator:
Sample Name: LWXFMA
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	101.60 ug/l	0.00	1.19	1000	Li	
9	Be	6	2	6.66 ug/l	0.00	1.65	1000	Be	
11	B	6	2	562.50 ug/l	0.00	2.29	2000	B	
23	Na	45	1	2476.00 ug/l	0.00	1.84	200000	Na	
24	Mg	45	1	32890.00 ug/l	0.00	0.14	200000	Mg	
27	Al	45	1	32140.00 ug/l	0.00	0.59	200000	Al	
28	Si	45	2	7222.00 ug/l	0.00	5.96	200000	Si	
29	Si	45	2	7099.00 ug/l	0.00	4.24	200000	Si	
31	P	45	1	4538.00 ug/l	0.00	0.26	200000	P	
34	S	45	1	10100.00 ug/l	0.00	0.67	200000	S	
34	S	45	2	11170.00 ug/l	0.00	0.80	200000	S	
39	K	45	1	6525.00 ug/l	0.00	0.65	200000	K	
44	Ca	45	2	183300.00 ug/l	0.00	0.58	200000	Ca	
47	Ti	72	2	974.00 ug/l	0.00	19.56	5000	Ti	
51	V	72	1	173.00 ug/l	0.00	0.61	2000	V	
52	Cr	72	1	402.10 ug/l	0.00	0.94	2000	Cr	
55	Mn	72	1	3134.00 ug/l	0.00	0.46	5000	Mn	
57	Fe	72	1	370400.00 ug/l	0.00	1.49	200000	Fe	>LDR
59	Co	72	1	69.22 ug/l	0.00	0.71	2000	Co	
60	Ni	72	1	210.80 ug/l	0.00	0.87	2000	Ni	
63	Cu	72	1	513.80 ug/l	0.00	1.38	5000	Cu	
66	Zn	72	1	3911.00 ug/l	0.00	1.36	5000	Zn	
75	As	72	1	165.90 ug/l	0.00	0.79	2000	As	
78	Se	72	1	48.91 ug/l	0.00	0.86	2000	Se	
88	Sr	72	2	627.90 ug/l	0.00	0.50	5000	Sr	
89	Y	72	1	32.71 ug/l	0.00	1.65	2000	Y	
90	Zr	72	1	83.71 ug/l	0.00	1.08	2000	Zr	
93	Nb	72	1	3.79 ug/l	0.00	11.00	2000	Nb	
95	Mo	72	2	75.00 ug/l	0.00	0.71	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	12.51	2000	Ru	
103	Rh	72	1	0.18 ug/l	0.00	1.22	2000	Rh	
105	Pd	72	1	0.09 ug/l	0.00	1.13	2000	Pd	
107	Ag	115	2	23.09 ug/l	0.00	1.06	400	Ag	
111	Cd	115	2	23.18 ug/l	0.00	1.66	2000	Cd	
118	Sn	115	2	1379.00 ug/l	0.00	0.83	2000	Sn	
121	Sb	165	2	50.12 ug/l	0.00	0.99	1000	Sb	
125	Te	165	1	0.13 ug/l	0.00	39.35	2000	Te	
133	Cs	165	1	2.48 ug/l	0.00	0.48	2000	Cs	
137	Ba	165	2	1054.00 ug/l	0.00	1.71	5000	Ba	
139	La	165	1	34.56 ug/l	0.00	1.60	2000	La	
140	Ce	165	1	75.93 ug/l	0.00	1.77	2000	Ce	
141	Pr	165	1	9.79 ug/l	0.00	0.32	2000	Pr	
146	Nd	165	1	40.58 ug/l	0.00	0.82	2000	Nd	
147	Sm	165	2	101.40 ug/l	0.00	1.50	2000	Sm	
178	Hf	165	1	1.15 ug/l	0.00	7.24	2000	Hf	
181	Ta	165	1	0.28 ug/l	0.00	34.41	2000	Ta	
182	W	197	1	62.38 ug/l	0.00	0.15	2000	W	
195	Pt	197	1	0.02 ug/l	0.00	9.40	2000	Pt	
205	Tl	197	2	24.06 ug/l	0.00	1.39	2000	Tl	
206	(Pb)	197	2	4048.00 ug/l	0.00	1.34	2000	(Pb)	
207	(Pb)	197	2	3866.00 ug/l	0.00	0.83	2000	(Pb)	
208	Pb	197	2	3971.00 ug/l	0.00	0.92	5000	Pb	
209	Bi	197	1	2.05 ug/l	0.00	2.01	2000	Bi	
232	Th	197	2	37.70 ug/l	0.00	2.20	2000	Th	
238	U	197	2	14.25 ug/l	0.00	1.21	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5940662	1.42	6939269	85.6	70 - 140	Li	
45	Sc	1	421226	0.71	481965	87.4	70 - 140	Sc	
45	Sc	2	6723536	0.47	7351212	91.5	70 - 140	Sc	
72	Ge	1	243710	0.75	284165	85.8	70 - 140	Ge	
72	Ge	2	1321055	0.79	1476622	89.5	70 - 140	Ge	
115	In	2	7745510	0.49	8960157	86.4	70 - 140	In	
165	Ho	1	5743608	0.64	6560437	87.5	70 - 140	Ho	
165	Ho	2	10968680	0.75	11869600	92.4	70 - 140	Ho	
197	Au	1	1728259	0.70	2238589	77.2	70 - 140	Au	
197	Au	2	2231093	1.19	2712431	82.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\mogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\145SMPL.D\145SMPL.D#
Date Acquired: Apr 14 2010 06:26 am
Operator:
Sample Name: LWXFW
Misc Info:
Vial Number: 4202
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	98.95 ug/l	0.00	1.43	1000	Li	
9	Be	6	2	2.71 ug/l	0.00	1.11	1000	Be	
11	B	6	2	41.33 ug/l	0.00	1.07	2000	B	
23	Na	45	1	879.00 ug/l	0.00	0.99	200000	Na	
24	Mg	45	1	70990.00 ug/l	0.00	1.31	200000	Mg	
27	Al	45	1	49050.00 ug/l	0.00	1.06	200000	Al	
28	Si	45	2	4859.00 ug/l	0.00	0.42	200000	Si	
29	Si	45	2	4603.00 ug/l	0.00	3.00	200000	Si	
31	P	45	1	2699.00 ug/l	0.00	1.26	200000	P	
34	S	45	1	245.90 ug/l	0.00	20.80	200000	S	
34	S	45	2	-22.44 ug/l	0.00	117.51	200000	S	
39	K	45	1	7571.00 ug/l	0.00	0.91	200000	K	
44	Ca	45	2	231800.00 ug/l	0.00	0.55	200000	Ca	>LDR
47	Ti	72	2	716.00 ug/l	0.00	1.12	5000	Ti	
51	V	72	1	115.90 ug/l	0.00	2.04	2000	V	
52	Cr	72	1	88.52 ug/l	0.00	1.23	2000	Cr	
55	Mn	72	1	3592.00 ug/l	0.00	2.77	5000	Mn	
57	Fe	72	1	99170.00 ug/l	0.00	2.90	200000	Fe	
59	Co	72	1	55.59 ug/l	0.00	0.75	2000	Co	
60	Ni	72	1	99.77 ug/l	0.00	1.67	2000	Ni	
63	Cu	72	1	122.80 ug/l	0.00	1.24	5000	Cu	
66	Zn	72	1	419.80 ug/l	0.00	0.91	5000	Zn	
75	As	72	1	18.23 ug/l	0.00	2.03	2000	As	
78	Se	72	1	7.10 ug/l	0.00	0.58	2000	Se	
88	Sr	72	2	461.70 ug/l	0.00	1.58	5000	Sr	
89	Y	72	1	64.57 ug/l	0.00	2.39	2000	Y	
90	Zr	72	1	43.66 ug/l	0.00	1.30	2000	Zr	
93	Nb	72	1	1.60 ug/l	0.00	7.90	2000	Nb	
95	Mo	72	2	3.15 ug/l	0.00	1.90	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	69.66	2000	Ru	
103	Rh	72	1	0.00 ug/l	0.00	61.70	2000	Rh	
105	Pd	72	1	0.15 ug/l	0.00	10.61	2000	Pd	
107	Ag	115	2	0.53 ug/l	0.00	1.83	400	Ag	
111	Cd	115	2	1.34 ug/l	0.00	1.36	2000	Cd	
118	Sn	115	2	16.87 ug/l	0.00	0.65	2000	Sn	
121	Sb	165	2	0.36 ug/l	0.00	1.88	1000	Sb	
125	Te	165	1	0.09 ug/l	0.00	57.64	2000	Te	
133	Cs	165	1	3.97 ug/l	0.00	1.39	2000	Cs	
137	Ba	165	2	558.80 ug/l	0.00	0.96	5000	Ba	
139	La	165	1	60.59 ug/l	0.00	1.27	2000	La	
140	Ce	165	1	146.50 ug/l	0.00	0.10	2000	Ce	
141	Pr	165	1	20.06 ug/l	0.00	0.47	2000	Pr	
146	Nd	165	1	84.93 ug/l	0.00	0.96	2000	Nd	
147	Sm	165	2	19.11 ug/l	0.00	0.79	2000	Sm	
178	Hf	165	1	0.75 ug/l	0.00	2.81	2000	Hf	
181	Ta	165	1	-0.11 ug/l	0.00	16.13	2000	Ta	
182	W	197	1	2.10 ug/l	0.00	13.52	2000	W	
195	Pt	197	1	0.01 ug/l	0.00	29.61	2000	Pt	
205	Tl	197	2	2.16 ug/l	0.00	0.63	2000	Tl	
206	(Pb)	197	2	117.60 ug/l	0.00	1.45	2000	(Pb)	
207	(Pb)	197	2	111.50 ug/l	0.00	0.61	2000	(Pb)	
208	Pb	197	2	114.20 ug/l	0.00	0.57	5000	Pb	
209	Bi	197	1	0.68 ug/l	0.00	2.21	2000	Bi	
232	Th	197	2	19.31 ug/l	0.00	1.06	2000	Th	
238	U	197	2	3.21 ug/l	0.00	0.68	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6100552	1.39	6939269	87.9	70 - 140	Li	
45	Sc	1	434245	0.77	481965	90.1	70 - 140	Sc	
45	Sc	2	7082213	0.94	7351212	96.3	70 - 140	Sc	
72	Ge	1	233359	1.75	284165	82.1	70 - 140	Ge	
72	Ge	2	1265441	1.40	1476622	85.7	70 - 140	Ge	
115	In	2	7783439	0.40	8960157	86.9	70 - 140	In	
165	Ho	1	5795328	1.16	6560437	88.3	70 - 140	Ho	
165	Ho	2	10911917	1.17	11869400	91.9	70 - 140	Ho	
197	Au	1	1746660	1.15	2238589	78.0	70 - 140	Au	
197	Au	2	2285705	0.63	2712431	84.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\146_CCV.D\146_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\146_CCV.D\146_CCV.D#
Date Acquired: Apr 14 2010 06:33 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7 Li	6	2	95.58	ug/l	2.05	100	95.6	90 - 110	Li	
9 Be	6	2	97.26	ug/l	1.44	100	97.3	90 - 110	Be	
11 B	6	2	192.80	ug/l	1.02	200	96.4	90 - 110	B	
23 Na	45	1	1228.00	ug/l	0.27	1250	98.2	90 - 110	Na	
24 Mg	45	1	2441.00	ug/l	0.57	2500	97.6	90 - 110	Mg	
27 Al	45	1	1197.00	ug/l	0.28	1250	95.8	90 - 110	Al	
28 Si	45	2	1207.00	ug/l	1.54	1250	96.6	90 - 110	Si	
29 Si	45	2	1215.00	ug/l	1.36	1250	97.2	90 - 110	Si	
31 P	45	1	1195.00	ug/l	0.81	1250	95.6	90 - 110	P	
34 S	45	1	18700.00	ug/l	1.66	20000	93.5	90 - 110	S	
34 S	45	2	19460.00	ug/l	1.48	20000	97.3	90 - 110	S	
39 K	45	1	1226.00	ug/l	1.00	1250	98.1	90 - 110	K	
44 Ca	45	2	2462.00	ug/l	0.45	2500	98.5	90 - 110	Ca	
47 Ti	72	2	96.18	ug/l	0.56	100	96.2	90 - 110	Ti	
51 V	72	1	102.00	ug/l	0.29	100	102.0	90 - 110	V	
52 Cr	72	1	102.20	ug/l	0.39	100	102.2	90 - 110	Cr	
55 Mn	72	1	101.40	ug/l	0.89	100	101.4	90 - 110	Mn	
57 Fe	72	1	2585.00	ug/l	0.79	2500	103.4	90 - 110	Fe	
59 Co	72	1	101.50	ug/l	0.96	100	101.5	90 - 110	Co	
60 Ni	72	1	101.60	ug/l	0.85	100	101.6	90 - 110	Ni	
63 Cu	72	1	102.80	ug/l	0.74	100	102.8	90 - 110	Cu	
66 Zn	72	1	100.30	ug/l	0.33	100	100.3	90 - 110	Zn	
75 As	72	1	100.90	ug/l	0.74	100	100.9	90 - 110	As	
78 Se	72	1	100.10	ug/l	0.93	100	100.1	90 - 110	Se	
88 Sr	72	2	98.45	ug/l	0.39	100	98.5	90 - 110	Sr	
89 Y	72	1	104.60	ug/l	1.83	100	104.6	90 - 110	Y	
90 Zr	72	1	101.30	ug/l	0.92	100	101.3	90 - 110	Zr	
93 Nb	72	1	49.82	ug/l	1.14	50	99.6	90 - 110	Nb	
95 Mo	72	2	96.12	ug/l	0.55	100	96.1	90 - 110	Mo	
101 Ru	72	1	103.90	ug/l	0.93	100	103.9	90 - 110	Ru	
103 Rh	72	1	105.30	ug/l	0.79	100	105.3	90 - 110	Rh	
105 Pd	72	1	10.41	ug/l	1.41	10	104.1	90 - 110	Pd	
107 Ag	115	2	19.50	ug/l	0.50	20	97.5	90 - 110	Ag	
111 Cd	115	2	94.51	ug/l	0.50	100	94.5	90 - 110	Cd	
118 Sn	115	2	97.72	ug/l	0.26	100	97.7	90 - 110	Sn	
121 Sb	165	2	47.89	ug/l	0.53	50	95.8	90 - 110	Sb	
125 Te	165	1	95.90	ug/l	0.37	100	95.9	90 - 110	Te	
133 Cs	165	1	97.11	ug/l	0.55	100	97.1	90 - 110	Cs	
137 Ba	165	2	95.72	ug/l	0.75	100	95.7	90 - 110	Ba	
139 La	165	1	98.39	ug/l	0.23	100	98.4	90 - 110	La	
140 Ce	165	1	98.62	ug/l	0.03	100	98.6	90 - 110	Ce	
141 Pr	165	1	98.13	ug/l	1.29	100	98.1	90 - 110	Pr	
146 Nd	165	1	96.43	ug/l	1.52	100	96.4	90 - 110	Nd	
147 Sm	165	2	94.09	ug/l	0.54	100	94.1	90 - 110	Sm	
178 Hf	165	1	86.82	ug/l	1.00	100	86.8	90 - 110	Hf	Fail
181 Ta	165	1	93.41	ug/l	0.89	100	93.4	90 - 110	Ta	
182 W	197	1	91.51	ug/l	0.87	100	91.5	90 - 110	W	
195 Pt	197	1	9.56	ug/l	1.25	10	95.6	90 - 110	Pt	
205 Tl	197	2	96.52	ug/l	0.39	100	96.5	90 - 110	Tl	
206 (Pb)	197	2	97.48	ug/l	1.10	100	97.5	90 - 110	(Pb)	
207 (Pb)	197	2	95.10	ug/l	1.05	100	95.1	90 - 110	(Pb)	
208 Pb	197	2	97.21	ug/l	0.29	100	97.2	90 - 110	Pb	
209 Bi	197	1	100.50	ug/l	0.56	100	100.5	90 - 110	Bi	
232 Th	197	2	86.80	ug/l	1.10	100	86.8	90 - 110	Th	Fail
238 U	197	2	95.77	ug/l	0.82	100	95.8	90 - 110	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6548510	2.21	6939269	94.4	70 - 140	Li	
45 Sc	1	429767	0.74	481965	89.2	70 - 140	Sc	
45 Sc	2	7023707	0.36	7351212	95.5	70 - 140	Sc	
72 Ge	1	256854	0.10	284165	90.4	70 - 140	Ge	
72 Ge	2	1430881	0.23	1476622	96.9	70 - 140	Ge	
115 In	2	8843637	0.16	8960157	98.7	70 - 140	In	
165 Ho	1	6220092	0.28	6560437	94.8	70 - 140	Ho	
165 Ho	2	11844759	0.79	11869600	99.8	70 - 140	Ho	
197 Au	1	2099584	0.96	2238589	93.8	70 - 140	Au	
197 Au	2	2705337	0.25	2712431	99.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\147_CCB.D\147_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\147_CCB.D\147_CCB.D#
Date Acquired: Apr 14 2010 06:41 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.037	ug/l	335.59	1.35	Li	
9 Be	6	2	0.013	ug/l	9.57	0.23	Be	
11 B	6	2	0.775	ug/l	16.98	14.94	B	
23 Na	45	1	1.143	ug/l	29.01	10.60	Na	
24 Mg	45	1	1.379	ug/l	33.11	3.46	Mg	
27 Al	45	1	0.379	ug/l	135.85	8.94	Al	
28 Si	45	2	1.432	ug/l	5.14	35.60	Si	
29 Si	45	2	-0.338	ug/l	80.14	35.60	Si	
31 P	45	1	1.627	ug/l	17.57	16.46	P	
34 S	45	1	-244.300	ug/l	33.33	666.00	S	
34 S	45	2	-240.100	ug/l	3.84	666.00	S	
39 K	45	1	-2.427	ug/l	31.33	16.66	K	
44 Ca	45	2	-2.025	ug/l	20.28	97.40	Ca	
47 Ti	72	2	0.279	ug/l	5.34	1.15	Ti	
51 V	72	1	-0.120	ug/l	1.68	4.74	V	
52 Cr	72	1	-0.008	ug/l	90.15	6.52	Cr	
55 Mn	72	1	0.077	ug/l	12.91	0.47	Mn	
57 Fe	72	1	9.673	ug/l	19.00	40.70	Fe	
59 Co	72	1	0.016	ug/l	23.89	0.43	Co	
60 Ni	72	1	0.014	ug/l	75.70	0.46	Ni	
63 Cu	72	1	0.005	ug/l	274.29	0.19	Cu	
66 Zn	72	1	0.152	ug/l	11.76	7.48	Zn	
75 As	72	1	0.080	ug/l	57.97	1.89	As	
78 Se	72	1	0.228	ug/l	31.08	0.62	Se	
88 Sr	72	2	0.004	ug/l	15.65	0.23	Sr	
89 Y	72	1	0.012	ug/l	42.89	0.42	Y	
90 Zr	72	1	0.119	ug/l	12.10	0.50	Zr	
93 Nb	72	1	1.020	ug/l	20.38	4.46	Nb	
95 Mo	72	2	0.229	ug/l	12.63	0.43	Mo	
101 Ru	72	1	0.011	ug/l	22.61	2.00	Ru	
103 Rh	72	1	0.014	ug/l	45.29	1.63	Rh	
105 Pd	72	1	0.003	ug/l	24.08	0.08	Pd	
107 Ag	115	2	0.001	ug/l	134.58	0.08	Ag	
111 Cd	115	2	0.006	ug/l	64.88	0.11	Cd	
118 Sn	115	2	0.639	ug/l	9.90	0.30	Sn	FAIL
121 Sb	165	2	-0.063	ug/l	5.15	2.24	Sb	
125 Te	165	1	0.147	ug/l	103.60	1.07	Te	
133 Cs	165	1	0.058	ug/l	9.68	0.11	Cs	
137 Ba	165	2	0.006	ug/l	119.73	0.39	Ba	
139 La	165	1	0.012	ug/l	27.31	0.10	La	
140 Ce	165	1	0.013	ug/l	31.51	1.77	Ce	
141 Pr	165	1	0.013	ug/l	27.32	0.08	Pr	
146 Nd	165	1	0.010	ug/l	76.37	0.21	Nd	
147 Sm	165	2	-0.001	ug/l	98.84	0.65	Sm	
178 Hf	165	1	0.257	ug/l	5.54	2.26	Hf	
181 Ta	165	1	0.241	ug/l	9.30	1.46	Ta	
182 W	197	1	1.692	ug/l	12.05	1.68	W	FAIL
195 Pt	197	1	0.002	ug/l	24.47	0.12	Pt	
205 Tl	197	2	1.025	ug/l	5.66	1.10	Tl	
206 (Pb)	197	2	0.136	ug/l	3.76	2.00	(Pb)	
207 (Pb)	197	2	0.139	ug/l	10.05	2.00	(Pb)	
208 Pb	197	2	0.137	ug/l	0.87	0.35	Pb	
209 Bi	197	1	0.022	ug/l	2.97	1.46	Bi	
232 Th	197	2	0.810	ug/l	3.03	1.10	Th	
238 U	197	2	0.032	ug/l	11.56	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6467092	0.89	6939269	93.2	70 - 140	Li	
45 Sc	1	430536	1.23	481965	89.3	70 - 140	Sc	
45 Sc	2	6833688	0.88	7351212	93.0	70 - 140	Sc	
72 Ge	1	254549	0.84	284165	89.6	70 - 140	Ge	
72 Ge	2	1365025	0.86	1476622	92.4	70 - 140	Ge	
115 In	2	8552805	0.47	8960157	95.5	70 - 140	In	
165 Ho	1	6174217	0.93	6560437	94.1	70 - 140	Ho	
165 Ho	2	11570712	0.65	11869600	97.5	70 - 140	Ho	
197 Au	1	2047990	1.25	2238589	91.5	70 - 140	Au	
197 Au	2	2637810	1.06	2712431	97.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

2 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\148_PB.D\148_PB.D#

Prep Blank QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\148_PB.D\148_PB.D#
Date Acquired: Apr 14 2010 06:48 am
Operator:
Sample Name: LXLFRB
Misc Info: 0097080
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 4-MB_DOD
Total Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6		2	0.048	ug/l	288.26	1.25	Li	
9 Be	6		2	-0.001	ug/l	434.82	0.13	Be	
11 B	6		2	13.590	ug/l	5.72	12.50	B	FAIL
23 Na	45		1	22.360	ug/l	2.53	12.50	Na	FAIL
24 Mg	45		1	4.529	ug/l	0.29	12.50	Mg	
27 Al	45		1	6.147	ug/l	6.27	7.50	Al	
28 Si	45		2	53.550	ug/l	8.58	62.50	Si	
29 Si	45		2	53.950	ug/l	10.29	62.50	Si	
31 P	45		1	2.732	ug/l	25.79	12.50	P	
34 S	45		1	-168.400	ug/l	22.52	1250.00	S	
34 S	45		2	8.749	ug/l	1544.20	1250.00	S	
39 K	45		1	4.188	ug/l	11.94	25.00	K	
44 Ca	45		2	14.220	ug/l	10.10	25.00	Ca	
47 Ti	72		2	0.289	ug/l	5.69	1.25	Ti	
51 V	72		1	-0.032	ug/l	32.04	2.50	V	
52 Cr	72		1	0.247	ug/l	4.95	2.50	Cr	
55 Mn	72		1	0.073	ug/l	18.90	0.50	Mn	
57 Fe	72		1	9.457	ug/l	18.45	12.50	Fe	
59 Co	72		1	0.000	ug/l	169.97	0.50	Co	
60 Ni	72		1	0.216	ug/l	5.67	1.25	Ni	
63 Cu	72		1	-0.186	ug/l	0.63	0.25	Cu	
66 Zn	72		1	1.619	ug/l	1.55	1.25	Zn	FAIL
75 As	72		1	0.036	ug/l	11.91	2.50	As	
78 Se	72		1	0.107	ug/l	11.51	1.25	Se	
88 Sr	72		2	0.027	ug/l	5.65	1.25	Sr	
89 Y	72		1	-0.004	ug/l	21.15	1.25	Y	
90 Zr	72		1	0.417	ug/l	1.66	1.25	Zr	
93 Nb	72		1	0.504	ug/l	28.48	6.25	Nb	
95 Mo	72		2	0.067	ug/l	15.60	1.25	Mo	
101 Ru	72		1	-0.005	ug/l	50.47	2.50	Ru	
103 Rh	72		1	0.001	ug/l	153.07	2.50	Rh	
105 Pd	72		1	0.002	ug/l	72.51	0.13	Pd	
107 Ag	115		2	-0.002	ug/l	59.13	0.50	Ag	
111 Cd	115		2	-0.004	ug/l	104.60	0.13	Cd	
118 Sn	115		2	1.073	ug/l	7.85	0.50	Sn	FAIL
121 Sb	165		2	-0.097	ug/l	12.40	1.25	Sb	
125 Te	165		1	0.024	ug/l	127.33	2.50	Te	
133 Cs	165		1	0.004	ug/l	21.95	0.03	Cs	
137 Ba	165		2	0.275	ug/l	7.17	0.50	Ba	
139 La	165		1	0.006	ug/l	23.44	0.50	La	
140 Ce	165		1	0.023	ug/l	10.76	2.50	Ce	
141 Pr	165		1	-0.003	ug/l	13.83	0.50	Pr	
146 Nd	165		1	-0.002	ug/l	35.09	0.50	Nd	
147 Sm	165		2	-0.006	ug/l	14.12	2.50	Sm	
178 Hf	165		1	0.761	ug/l	4.55	2.50	Hf	
181 Ta	165		1	0.122	ug/l	27.42	2.50	Ta	
182 W	197		1	0.544	ug/l	29.42	1.25	W	
195 Pt	197		1	0.006	ug/l	34.91	0.25	Pt	
205 Tl	197		2	0.632	ug/l	4.48	0.50	Tl	FAIL
206 (Pb)	197		2	0.188	ug/l	10.62	0.75	(Pb)	
207 (Pb)	197		2	0.181	ug/l	6.00	0.75	(Pb)	
208 Pb	197		2	0.188	ug/l	5.27	0.75	Pb	
209 Bi	197		1	0.029	ug/l	22.58	5.00	Bi	
232 Th	197		2	1.580	ug/l	4.55	0.50	Th	FAIL
238 U	197		2	0.004	ug/l	14.30	0.25	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6305806	2.86	6939269	90.9	70 - 140	Li	
45 Sc	1	419950	0.28	481965	87.1	70 - 140	Sc	
45 Sc	2	6442970	4.61	7351212	87.6	70 - 140	Sc	
72 Ge	1	252802	0.65	284165	89.0	70 - 140	Ge	
72 Ge	2	1339467	2.12	1476622	90.7	70 - 140	Ge	
115 In	2	8137368	2.48	8960157	90.8	70 - 140	In	
165 Ho	1	6041046	2.22	6560437	92.1	70 - 140	Ho	
165 Ho	2	10951840	3.62	11869600	92.3	70 - 140	Ho	
197 Au	1	1939498	1.30	2238589	86.6	70 - 140	Au	
197 Au	2	2464851	3.08	2712431	90.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

6 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\149_LCS.D\149_LCS.D#

Laboratory Control Sample (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\149_LCS.D\149_LCS.D#
Date Acquired: Apr 14 2010 06:55 am
Acq. Method: 2010.M
Operator:
Sample Name: LXLFRC
Misc Info:
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal. Update: Apr 14 2010 01:13 am
Sample Type: 6-LCS_O
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Fail
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	510.30	1.23	500	102.1	80 - 120	Li	
9	Be	6	2	489.00	1.78	500	97.8	80 - 120	Be	
11	B	6	2	504.20	2.43	500	100.8	80 - 120	B	
23	Na	45	1	4983.00	1.26	5000	99.7	80 - 120	Na	
24	Mg	45	1	4992.00	1.60	5000	99.8	80 - 120	Mg	
27	Al	45	1	4892.00	0.83	5000	97.8	80 - 120	Al	
28	Si	45	2	51.45	4.91	500	10.3	80 - 120	Si	FAIL
29	Si	45	2	48.11	2.32	500	9.6	80 - 120	Si	FAIL
31	P	45	1	476.20	0.65	5000	9.5	80 - 120	P	FAIL
34	S	45	1	4570.00	2.79	5000	91.4	80 - 120	S	
34	S	45	2	4550.00	11.59	5000	91.0	80 - 120	S	
39	K	45	1	4882.00	1.06	5000	97.6	80 - 120	K	
44	Ca	45	2	5025.00	0.64	5000	100.5	80 - 120	Ca	
47	Ti	72	2	525.50	0.28	500	105.1	80 - 120	Ti	
51	V	72	1	512.80	0.62	500	102.6	80 - 120	V	
52	Cr	72	1	513.90	0.37	500	102.8	80 - 120	Cr	
55	Mn	72	1	511.20	1.07	500	102.2	80 - 120	Mn	
57	Fe	72	1	5455.00	0.81	5000	109.1	80 - 120	Fe	
59	Co	72	1	519.80	1.19	500	104.0	80 - 120	Co	
60	Ni	72	1	517.50	0.72	500	103.5	80 - 120	Ni	
63	Cu	72	1	512.00	0.51	500	102.4	80 - 120	Cu	
66	Zn	72	1	506.70	0.25	500	101.3	80 - 120	Zn	
75	As	72	1	510.40	0.69	500	102.1	80 - 120	As	
78	Se	72	1	493.40	0.41	500	98.7	80 - 120	Se	
88	Sr	72	2	521.00	1.04	500	104.2	80 - 120	Sr	
89	Y	72	1	0.03	11.04	500	0.0	80 - 120	Y	FAIL
90	Zr	72	1	517.10	0.86	500	103.4	80 - 120	Zr	
93	Nb	72	1	118.60	0.94	500	23.7	80 - 120	Nb	FAIL
95	Mo	72	2	515.10	0.83	500	103.0	80 - 120	Mo	
101	Ru	72	1	-0.01	99.73	500	0.0	80 - 120	Ru	FAIL
103	Rh	72	1	0.03	3.37	500	0.0	80 - 120	Rh	FAIL
105	Pd	72	1	0.03	5.26	500	0.0	80 - 120	Pd	FAIL
107	Ag	115	2	49.50	0.66	50	99.0	80 - 120	Ag	
111	Cd	115	2	481.90	0.27	500	96.4	80 - 120	Cd	
118	Sn	115	2	496.80	1.35	500	99.4	80 - 120	Sn	
121	Sb	165	2	235.70	0.41	250	94.3	80 - 120	Sb	
125	Te	165	1	0.11	71.76	500	0.0	80 - 120	Te	FAIL
133	Cs	165	1	0.00	648.26	500	0.0	80 - 120	Cs	FAIL
137	Ba	165	2	500.20	0.98	500	100.0	80 - 120	Ba	
139	La	165	1	0.01	19.83	500	0.0	80 - 120	La	FAIL
140	Ce	165	1	0.00	15.15	500	0.0	80 - 120	Ce	FAIL
141	Pr	165	1	0.00	16.83	500	0.0	80 - 120	Pr	FAIL
146	Nd	165	1	0.00	249.77	500	0.0	80 - 120	Nd	FAIL
147	Sm	165	2	488.20	0.89	500	97.6	80 - 120	Sm	
178	Hf	165	1	7.28	10.88	500	1.5	80 - 120	Hf	FAIL
181	Ta	165	1	2.51	10.80	500	0.5	80 - 120	Ta	FAIL
182	W	197	1	513.60	0.79	500	102.7	80 - 120	W	
195	Pt	197	1	0.03	10.44	500	0.0	80 - 120	Pt	FAIL
205	Tl	197	2	529.50	0.52	500	105.9	80 - 120	Tl	
206	(Pb)	197	2	502.00	0.18	500	100.4	80 - 120	(Pb)	
207	(Pb)	197	2	522.20	0.51	500	104.4	80 - 120	(Pb)	
208	Pb	197	2	510.40	0.49	500	102.1	80 - 120	Pb	
209	Bi	197	1	512.00	0.27	500	102.4	80 - 120	Bi	
232	Th	197	2	523.20	0.13	500	104.6	80 - 120	Th	
238	U	197	2	539.30	0.11	500	107.9	80 - 120	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6057416	1.63	6939269	87.3	70 - 140	Li	
45	Sc	1	407791	0.45	481965	84.6	70 - 140	Sc	
45	Sc	2	6677716	0.44	7351212	90.8	70 - 140	Sc	
72	Ge	1	239098	0.51	284165	84.1	70 - 140	Ge	
72	Ge	2	1304963	0.26	1476622	88.4	70 - 140	Ge	
115	In	2	8106148	0.58	8960157	90.5	70 - 140	In	
165	Ho	1	5891900	0.37	6560437	89.8	70 - 140	Ho	
165	Ho	2	11011826	0.67	11859600	92.8	70 - 140	Ho	
197	Au	1	1864307	0.76	2238589	83.3	70 - 140	Au	
197	Au	2	2404781	0.04	2712431	88.7	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

17 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\150SMPL.D\150SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\150SMPL.D\150SMPL.D#
Date Acquired: Apr 14 2010 07:02 am
Operator:
Sample Name: LWOV4
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	6.59 ug/l	0.00	2.32	1000	Li	
9 Be	6		2	0.39 ug/l	0.00	1.60	1000	Be	
11 B	6		2	29.88 ug/l	0.00	3.17	2000	B	
23 Na	45		1	2297.00 ug/l	0.00	0.67	200000	Na	
24 Mg	45		1	1679.00 ug/l	0.00	0.58	200000	Mg	
27 Al	45		1	8145.00 ug/l	0.00	0.97	200000	Al	
28 Si	45		2	2591.00 ug/l	0.00	1.29	200000	Si	
29 Si	45		2	2598.00 ug/l	0.00	1.42	200000	Si	
31 P	45		1	4802.00 ug/l	0.00	2.20	200000	P	
34 S	45		1	235.50 ug/l	0.00	40.50	200000	S	
34 S	45		2	-29.55 ug/l	0.00	80.68	200000	S	
39 K	45		1	2116.00 ug/l	0.00	1.73	200000	K	
44 Ca	45		2	22610.00 ug/l	0.00	0.32	200000	Ca	
47 Ti	72		2	271.50 ug/l	0.00	1.79	5000	Ti	
51 V	72		1	15.11 ug/l	0.00	1.48	2000	V	
52 Cr	72		1	65.58 ug/l	0.00	1.54	2000	Cr	
55 Mn	72		1	886.50 ug/l	0.00	2.10	5000	Mn	
57 Fe	72		1	152100.00 ug/l	0.00	0.83	200000	Fe	
59 Co	72		1	21.25 ug/l	0.00	0.69	2000	Co	
60 Ni	72		1	58.54 ug/l	0.00	2.53	2000	Ni	
63 Cu	72		1	603.20 ug/l	0.00	2.40	5000	Cu	
66 Zn	72		1	777.10 ug/l	0.00	1.66	5000	Zn	
75 As	72		1	15.99 ug/l	0.00	2.28	2000	As	
78 Se	72		1	0.77 ug/l	0.00	14.35	2000	Se	
88 Sr	72		2	132.70 ug/l	0.00	0.88	5000	Sr	
89 Y	72		1	2.83 ug/l	0.00	1.33	2000	Y	
90 Zr	72		1	2.96 ug/l	0.00	1.25	2000	Zr	
93 Nb	72		1	3.98 ug/l	0.00	8.55	2000	Nb	
95 Mo	72		2	4.53 ug/l	0.00	5.16	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	27.20	2000	Ru	
103 Rh	72		1	0.03 ug/l	0.00	6.32	2000	Rh	
105 Pd	72		1	0.01 ug/l	0.00	14.40	2000	Pd	
107 Ag	115		2	2.58 ug/l	0.00	0.62	400	Ag	
111 Cd	115		2	1.03 ug/l	0.00	0.51	2000	Cd	
118 Sn	115		2	634.80 ug/l	0.00	0.73	2000	Sn	
121 Sb	165		2	9.94 ug/l	0.00	1.01	1000	Sb	
125 Te	165		1	-0.01 ug/l	0.00	365.68	2000	Te	
133 Cs	165		1	0.16 ug/l	0.00	8.52	2000	Cs	
137 Ba	165		2	1099.00 ug/l	0.00	0.77	5000	Ba	
139 La	165		1	5.00 ug/l	0.00	2.66	2000	La	
140 Ce	165		1	9.99 ug/l	0.00	1.83	2000	Ce	
141 Pr	165		1	1.17 ug/l	0.00	1.76	2000	Pr	
146 Nd	165		1	4.41 ug/l	0.00	0.88	2000	Nd	
147 Sm	165		2	0.89 ug/l	0.00	2.24	2000	Sm	
178 Hf	165		1	0.01 ug/l	0.00	81.52	2000	Hf	
181 Ta	165		1	-0.14 ug/l	0.00	6.27	2000	Ta	
182 W	197		1	6.26 ug/l	0.00	1.68	2000	W	
195 Pt	197		1	0.00 ug/l	0.00	24.84	2000	Pt	
205 Tl	197		2	2.11 ug/l	0.00	3.96	2000	Tl	
206 (Pb)	197		2	859.30 ug/l	0.00	0.08	2000	(Pb)	
207 (Pb)	197		2	814.60 ug/l	0.00	0.18	2000	(Pb)	
208 Pb	197		2	840.80 ug/l	0.00	0.05	5000	Pb	
209 Bi	197		1	0.83 ug/l	0.00	3.61	2000	Bi	
232 Th	197		2	8.55 ug/l	0.00	7.21	2000	Th	
238 U	197		2	0.66 ug/l	0.00	3.27	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6537085	2.38	6939269	94.2	70 - 140	Li	
45 Sc	1	430776	0.83	481965	89.4	70 - 140	Sc	
45 Sc	2	6955668	1.14	7351212	94.6	70 - 140	Sc	
72 Ge	1	250088	1.26	284165	88.0	70 - 140	Ge	
72 Ge	2	1364421	1.62	1476622	92.4	70 - 140	Ge	
115 In	2	8494286	1.02	8960157	94.8	70 - 140	In	
165 Ho	1	6028264	1.89	6560437	91.9	70 - 140	Ho	
165 Ho	2	11336556	0.29	11869600	95.5	70 - 140	Ho	
197 Au	1	1979690	1.38	2238589	88.4	70 - 140	Au	
197 Au	2	2562202	0.96	2732431	94.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\151SMPL.D\151SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\151SMPL.D\151SMPL.D#
Date Acquired: Apr 14 2010 07:10 am
Operator:
Sample Name: LW0V4V
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 50.00
Total Dil Factor: 50.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	1.48 ug/l	0.00	9.33	1000	Li	
9	Be	6		2	0.06 ug/l	0.00	8.71	1000	Be	
11	B	6		2	2.65 ug/l	0.00	3.70	2000	B	
23	Na	45		1	452.70 ug/l	0.00	1.04	200000	Na	
24	Mg	45		1	324.30 ug/l	0.00	0.94	200000	Mg	
27	Al	45		1	1187.00 ug/l	0.00	1.01	200000	Al	
28	Si	45		2	491.50 ug/l	0.00	2.09	200000	Si	
29	Si	45		2	477.30 ug/l	0.00	1.86	200000	Si	
31	P	45		1	872.50 ug/l	0.00	1.09	200000	P	
34	S	45		1	-370.70 ug/l	0.00	15.51	200000	S	
34	S	45		2	-455.30 ug/l	0.00	3.38	200000	S	
39	K	45		1	418.60 ug/l	0.00	0.22	200000	K	
44	Ca	45		2	4365.00 ug/l	0.00	0.31	200000	Ca	
47	Ti	72		2	51.06 ug/l	0.00	1.25	5000	Ti	
51	V	72		1	2.57 ug/l	0.00	2.96	2000	V	
52	Cr	72		1	12.67 ug/l	0.00	1.38	2000	Cr	
55	Mn	72		1	177.70 ug/l	0.00	2.16	5000	Mn	
57	Fe	72		1	29140.00 ug/l	0.00	1.70	200000	Fe	
59	Co	72		1	4.09 ug/l	0.00	1.27	2000	Co	
60	Ni	72		1	11.70 ug/l	0.00	1.61	2000	Ni	
63	Cu	72		1	126.50 ug/l	0.00	1.01	5000	Cu	
66	Zn	72		1	163.30 ug/l	0.00	1.15	5000	Zn	
75	As	72		1	2.83 ug/l	0.00	1.27	2000	As	
78	Se	72		1	0.20 ug/l	0.00	33.97	2000	Se	
88	Sr	72		2	26.15 ug/l	0.00	1.33	5000	Sr	
89	Y	72		1	0.52 ug/l	0.00	3.60	2000	Y	
90	Zr	72		1	0.39 ug/l	0.00	5.36	2000	Zr	
93	Nb	72		1	1.11 ug/l	0.00	13.20	2000	Nb	
95	Mo	72		2	0.80 ug/l	0.00	4.54	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	5.02	2000	Ru	
103	Rh	72		1	0.00 ug/l	0.00	230.01	2000	Rh	
105	Pd	72		1	0.00 ug/l	0.00	300.88	2000	Pd	
107	Ag	115		2	0.52 ug/l	0.00	0.73	400	Ag	
111	Cd	115		2	0.22 ug/l	0.00	6.79	2000	Cd	
118	Sn	115		2	93.18 ug/l	0.00	1.34	2000	Sn	
121	Sb	165		2	1.73 ug/l	0.00	1.73	1000	Sb	
125	Te	165		1	0.01 ug/l	0.00	203.80	2000	Te	
133	Cs	165		1	0.02 ug/l	0.00	14.77	2000	Cs	
137	Ba	165		2	215.50 ug/l	0.00	1.21	5000	Ba	
139	La	165		1	0.94 ug/l	0.00	1.95	2000	La	
140	Ce	165		1	1.90 ug/l	0.00	1.39	2000	Ce	
141	Pr	165		1	0.22 ug/l	0.00	4.40	2000	Pr	
146	Nd	165		1	0.81 ug/l	0.00	2.02	2000	Nd	
147	Sm	165		2	0.16 ug/l	0.00	5.08	2000	Sm	
178	Hf	165		1	-0.07 ug/l	0.00	1.22	2000	Hf	
181	Ta	165		1	-0.22 ug/l	0.00	4.21	2000	Ta	
182	W	197		1	0.71 ug/l	0.00	11.09	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	70 72	2000	Pt	
205	Tl	197		2	0.59 ug/l	0.00	3.94	2000	Tl	
206	[Pb]	197		2	161.80 ug/l	0.00	0.89	2000	(Pb)	
207	[Pb]	197		2	152.00 ug/l	0.00	0.90	2000	(Pb)	
208	Pb	197		2	155.80 ug/l	0.00	0.86	5000	Pb	
209	Bi	197		1	0.10 ug/l	0.00	6.96	2000	Bi	
232	Th	197		2	0.43 ug/l	0.00	0.06	2000	Th	
238	U	197		2	0.09 ug/l	0.00	7.00	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6609076	0.67	6933269	95.2	70 - 140	Li	
45	Sc	1	432549	0.15	481965	89.7	70 - 140	Sc	
45	Sc	2	6941130	0.63	7351212	94.4	70 - 140	Sc	
72	Ge	1	252936	1.15	284165	89.0	70 - 140	Ge	
72	Ge	2	1377675	0.51	1476622	93.3	70 - 140	Ge	
115	In	2	8680561	0.59	8960157	96.9	70 - 140	In	
165	Ho	1	6144880	0.88	6560437	93.7	70 - 140	Ho	
165	Ho	2	11536708	0.54	11869600	97.2	70 - 140	Ho	
197	Au	1	2158911	0.94	2238589	96.4	70 - 140	Au	
197	Au	2	2772127	0.42	2712431	102.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\152SMPL.D\152SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\152SMPL.D\152SMPL.D#
Date Acquired: Apr 14 2010 07:17 am
Operator:
Sample Name: LW0V4S
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	114.40 ug/l	0.00	1.37	1000	Li	
9 Be	6		2	103.70 ug/l	0.00	1.86	1000	Be	
11 B	6		2	132.60 ug/l	0.00	2.85	2000	B	
23 Na	45		1	3511.00 ug/l	0.00	0.53	200000	Na	
24 Mg	45		1	3453.00 ug/l	0.00	0.63	200000	Mg	
27 Al	45		1	10780.00 ug/l	0.00	1.48	200000	Al	
28 Si	45		2	2386.00 ug/l	0.00	0.62	200000	Si	
29 Si	45		2	2394.00 ug/l	0.00	1.79	200000	Si	
31 P	45		1	8936.00 ug/l	0.00	1.25	200000	P	
34 S	45		1	1090.00 ug/l	0.00	11.51	200000	S	
34 S	45		2	916.90 ug/l	0.00	1.13	200000	S	
39 K	45		1	3502.00 ug/l	0.00	0.82	200000	K	
44 Ca	45		2	29850.00 ug/l	0.00	0.67	200000	Ca	
47 Ti	72		2	301.20 ug/l	0.00	0.81	5000	Ti	
51 V	72		1	131.10 ug/l	0.00	0.85	2000	V	
52 Cr	72		1	156.20 ug/l	0.00	1.05	2000	Cr	
55 Mn	72		1	615.70 ug/l	0.00	0.82	5000	Mn	
57 Fe	72		1	53840.00 ug/l	0.00	0.66	200000	Fe	
59 Co	72		1	122.20 ug/l	0.00	1.09	2000	Co	
60 Ni	72		1	135.50 ug/l	0.00	1.14	2000	Ni	
63 Cu	72		1	577.90 ug/l	0.00	0.49	5000	Cu	
66 Zn	72		1	944.70 ug/l	0.00	0.26	5000	Zn	
75 As	72		1	129.60 ug/l	0.00	0.66	2000	As	
78 Se	72		1	117.00 ug/l	0.00	1.39	2000	Se	
88 Sr	72		2	246.00 ug/l	0.00	0.24	5000	Sr	
89 Y	72		1	4.15 ug/l	0.00	1.27	2000	Y	
90 Zr	72		1	87.51 ug/l	0.00	0.85	2000	Zr	
93 Nb	72		1	21.79 ug/l	0.00	1.20	2000	Nb	
95 Mo	72		2	104.60 ug/l	0.00	0.39	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	9.87	2000	Ru	
103 Rh	72		1	0.27 ug/l	0.00	2.75	2000	Rh	
105 Pd	72		1	0.02 ug/l	0.00	18.69	2000	Pd	
107 Ag	115		2	11.56 ug/l	0.00	0.86	400	Ag	
111 Cd	115		2	102.10 ug/l	0.00	0.89	2000	Cd	
118 Sn	115		2	879.50 ug/l	0.00	0.39	2000	Sn	
121 Sb	165		2	56.81 ug/l	0.00	0.81	1000	Sb	
125 Te	165		1	0.03 ug/l	0.00	179.35	2000	Te	
133 Cs	165		1	0.25 ug/l	0.00	5.34	2000	Cs	
137 Ba	165		2	1048.00 ug/l	0.00	1.27	5000	Ba	
139 La	165		1	6.45 ug/l	0.00	0.57	2000	La	
140 Ce	165		1	12.70 ug/l	0.00	0.42	2000	Ce	
141 Pr	165		1	1.50 ug/l	0.00	0.58	2000	Pr	
146 Nd	165		1	5.76 ug/l	0.00	1.12	2000	Nd	
147 Sm	165		2	101.10 ug/l	0.00	0.73	2000	Sm	
178 Hf	165		1	0.07 ug/l	0.00	11.35	2000	Hf	
181 Ta	165		1	-0.19 ug/l	0.00	6.90	2000	Ta	
182 W	197		1	78.33 ug/l	0.00	1.13	2000	W	
195 Pt	197		1	0.00 ug/l	0.00	19.11	2000	Pt	
205 Tl	197		2	103.20 ug/l	0.00	1.01	2000	Tl	
206 [Pb]	197		2	5454.00 ug/l	0.00	0.59	2000	[Pb]	
207 [Pb]	197		2	5324.00 ug/l	0.00	0.84	2000	[Pb]	
208 Pb	197		2	5404.00 ug/l	0.00	0.30	5000	Pb	>LDR
209 Bi	197		1	110.00 ug/l	0.00	1.06	2000	Bi	
232 Th	197		2	104.50 ug/l	0.00	0.21	2000	Th	
238 U	197		2	105.80 ug/l	0.00	0.55	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6295241	1.19	6939269	90.7	70 - 140	Li	
45 Sc	1	405661	0.36	481965	84.2	70 - 140	Sc	
45 Sc	2	6675085	0.57	7351212	90.8	70 - 140	Sc	
72 Ge	1	235751	0.06	284165	83.0	70 - 140	Ge	
72 Ge	2	1311436	0.55	1476622	88.8	70 - 140	Ge	
115 In	2	8043676	0.79	8960157	89.8	70 - 140	In	
165 Ho	1	5846551	0.66	6560437	89.1	70 - 140	Ho	
165 Ho	2	10966325	0.75	11869600	92.4	70 - 140	Ho	
197 Au	1	1935780	0.52	2238589	86.5	70 - 140	Au	
197 Au	2	2499774	0.35	2712431	92.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\153SMPL.D\153SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\153SMPL.D\153SMPL.D#
Date Acquired: Apr 14 2010 07:24 am
Operator:
Sample Name: LW0V4D
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	103.00 ug/l	0.00	0.65	1000	Li	
9	Be	6		2	97.60 ug/l	0.00	1.03	1000	Be	
11	B	6		2	114.70 ug/l	0.00	1.13	2000	B	
23	Na	45		1	2588.00 ug/l	0.00	1.07	200000	Na	
24	Mg	45		1	1997.00 ug/l	0.00	1.79	200000	Mg	
27	Al	45		1	7863.00 ug/l	0.00	0.50	200000	Al	
28	Si	45		2	1660.00 ug/l	0.00	0.55	200000	Si	
29	Si	45		2	1653.00 ug/l	0.00	0.73	200000	Si	
31	P	45		1	8438.00 ug/l	0.00	1.02	200000	P	
34	S	45		1	676.50 ug/l	0.00	20.27	200000	S	
34	S	45		2	481.70 ug/l	0.00	5.30	200000	S	
39	K	45		1	2190.00 ug/l	0.00	0.47	200000	K	
44	Ca	45		2	26160.00 ug/l	0.00	1.06	200000	Ca	
47	Ti	72		2	203.00 ug/l	0.00	0.47	5000	Ti	
51	V	72		1	118.10 ug/l	0.00	1.47	2000	V	
52	Cr	72		1	125.90 ug/l	0.00	0.71	2000	Cr	
55	Mn	72		1	359.90 ug/l	0.00	0.61	5000	Mn	
57	Fe	72		1	31250.00 ug/l	0.00	1.21	200000	Fe	
59	Co	72		1	109.20 ug/l	0.00	1.50	2000	Co	
60	Ni	72		1	126.40 ug/l	0.00	1.25	2000	Ni	
63	Cu	72		1	664.00 ug/l	0.00	1.59	5000	Cu	
66	Zn	72		1	703.70 ug/l	0.00	0.60	5000	Zn	
75	As	72		1	127.80 ug/l	0.00	1.19	2000	As	
78	Se	72		1	112.10 ug/l	0.00	1.64	2000	Se	
88	Sr	72		2	192.50 ug/l	0.00	1.18	5000	Sr	
89	Y	72		1	4.80 ug/l	0.00	0.56	2000	Y	
90	Zr	72		1	81.19 ug/l	0.00	1.26	2000	Zr	
93	Nb	72		1	19.44 ug/l	0.00	3.37	2000	Nb	
95	Mo	72		2	100.20 ug/l	0.00	1.40	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	3.65	2000	Ru	
103	Rh	72		1	0.03 ug/l	0.00	10.23	2000	Rh	
105	Pd	72		1	0.02 ug/l	0.00	15.43	2000	Pd	
107	Ag	115		2	19.86 ug/l	0.00	1.93	400	Ag	
111	Cd	115		2	96.50 ug/l	0.00	1.15	2000	Cd	
118	Sn	115		2	294.10 ug/l	0.00	0.43	2000	Sn	
121	Sb	165		2	47.45 ug/l	0.00	2.30	1000	Sb	
125	Te	165		1	0.02 ug/l	0.00	130.43	2000	Te	
133	Cs	165		1	0.13 ug/l	0.00	12.70	2000	Cs	
137	Ba	165		2	687.80 ug/l	0.00	1.86	5000	Ba	
139	La	165		1	5.19 ug/l	0.00	1.64	2000	La	
140	Ce	165		1	10.63 ug/l	0.00	1.10	2000	Ce	
141	Pr	165		1	1.27 ug/l	0.00	1.92	2000	Pr	
146	Nd	165		1	4.95 ug/l	0.00	1.53	2000	Nd	
147	Sm	165		2	94.41 ug/l	0.00	1.38	2000	Sm	
178	Hf	165		1	0.01 ug/l	0.00	21.01	2000	Hf	
181	Ta	165		1	-0.21 ug/l	0.00	7.26	2000	Ta	
182	W	197		1	77.68 ug/l	0.00	0.54	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	168.47	2000	Pt	
205	Tl	197		2	99.01 ug/l	0.00	0.53	2000	Tl	
206	(Pb)	197		2	669.00 ug/l	0.00	0.45	2000	(Pb)	
207	(Pb)	197		2	645.60 ug/l	0.00	0.27	2000	(Pb)	
208	Pb	197		2	659.20 ug/l	0.00	0.56	5000	Pb	
209	Bi	197		1	98.12 ug/l	0.00	0.90	2000	Bi	
232	Th	197		2	97.56 ug/l	0.00	0.51	2000	Th	
238	U	197		2	98.48 ug/l	0.00	1.77	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6160588	0.57	6939269	88.8	70 - 140	Li	
45	Sc	1	412447	1.29	481965	85.6	70 - 140	Sc	
45	Sc	2	6727311	0.72	7351212	91.5	70 - 140	Sc	
72	Ge	1	240933	1.22	284165	84.8	70 - 140	Ge	
72	Ge	2	1347540	0.89	1476622	91.3	70 - 140	Ge	
115	In	2	8412627	1.27	8960157	93.9	70 - 140	In	
165	Ho	1	5987012	1.07	6560437	91.3	70 - 140	Ho	
165	Ho	2	11425094	1.48	11869600	96.3	70 - 140	Ho	
197	Au	1	1982862	0.60	2238589	88.6	70 - 140	Au	
197	Au	2	2584164	0.45	2712431	95.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\154SMPL.D\154SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\154SMPL.D\154SMPL.D#
Date Acquired: Apr 14 2010 07:31 am
Operator:
Sample Name: LW0V4A
Misc Info:
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6	2	55.90 ug/l	0.00	1.86	1000	Li	
9	Be	6	2	4.96 ug/l	0.00	2.33	1000	Be	
11	B	6	2	476.00 ug/l	0.00	2.55	2000	B	
23	Na	45	1	2651.00 ug/l	0.00	1.32	200000	Na	
24	Mg	45	1	2070.00 ug/l	0.00	1.13	200000	Mg	
27	Al	45	1	7887.00 ug/l	0.00	1.27	200000	Al	
28	Si	45	2	5225.00 ug/l	0.00	1.49	200000	Si	
29	Si	45	2	5159.00 ug/l	0.00	1.47	200000	Si	
31	P	45	1	4929.00 ug/l	0.00	0.98	200000	P	
34	S	45	1	91.05 ug/l	0.00	58.77	200000	S	
34	S	45	2	-113.20 ug/l	0.00	15.12	200000	S	
39	K	45	1	2935.00 ug/l	0.00	1.18	200000	K	
44	Ca	45	2	22460.00 ug/l	0.00	0.16	200000	Ca	
47	Ti	72	2	299.70 ug/l	0.00	0.29	5000	Ti	
51	V	72	1	117.20 ug/l	0.00	1.39	2000	V	
52	Cr	72	1	159.50 ug/l	0.00	1.55	2000	Cr	
55	Mn	72	1	845.00 ug/l	0.00	2.14	5000	Mn	
57	Fe	72	1	141700.00 ug/l	0.00	1.38	200000	Fe	
59	Co	72	1	40.25 ug/l	0.00	1.99	2000	Co	
60	Ni	72	1	104.00 ug/l	0.00	0.82	2000	Ni	
63	Cu	72	1	572.70 ug/l	0.00	0.35	5000	Cu	
66	Zn	72	1	782.10 ug/l	0.00	1.44	5000	Zn	
75	As	72	1	115.50 ug/l	0.00	0.60	2000	As	
78	Se	72	1	53.09 ug/l	0.00	2.27	2000	Se	
88	Sr	72	2	174.00 ug/l	0.00	0.62	5000	Sr	
89	Y	72	1	2.60 ug/l	0.00	1.63	2000	Y	
90	Zr	72	1	65.58 ug/l	0.00	2.17	2000	Zr	
93	Nb	72	1	3.01 ug/l	0.00	8.72	2000	Nb	
95	Mo	72	2	51.94 ug/l	0.00	0.73	2000	Mo	
101	Ru	72	1	-0.01 ug/l	0.00	9.65	2000	Ru	
103	Rh	72	1	0.03 ug/l	0.00	8.43	2000	Rh	
105	Pd	72	1	0.01 ug/l	0.00	15.82	2000	Pd	
107	Ag	115	2	20.92 ug/l	0.00	2.12	400	Ag	
111	Cd	115	2	5.80 ug/l	0.00	1.57	2000	Cd	
118	Sn	115	2	633.20 ug/l	0.00	1.53	2000	Sn	
121	Sb	165	2	56.20 ug/l	0.00	0.81	1000	Sb	
125	Te	165	1	0.00 ug/l	0.00	3701.60	2000	Te	
133	Cs	165	1	0.15 ug/l	0.00	6.42	2000	Cs	
137	Ba	165	2	1034.00 ug/l	0.00	0.61	5000	Ba	
139	La	165	1	4.64 ug/l	0.00	0.93	2000	La	
140	Ce	165	1	9.23 ug/l	0.00	0.89	2000	Ce	
141	Pr	165	1	1.10 ug/l	0.00	2.17	2000	Pr	
146	Nd	165	1	4.08 ug/l	0.00	1.34	2000	Nd	
147	Sm	165	2	92.95 ug/l	0.00	0.74	2000	Sm	
178	Hf	165	1	0.13 ug/l	0.00	3.39	2000	Hf	
181	Ta	165	1	-0.10 ug/l	0.00	33.93	2000	Ta	
182	W	197	1	47.63 ug/l	0.00	0.85	2000	W	
195	Pt	197	1	0.00 ug/l	0.00	710.36	2000	Pt	
205	Tl	197	2	19.44 ug/l	0.00	0.83	2000	Tl	
206	(Pb)	197	2	809.60 ug/l	0.00	0.15	2000	(Pb)	
207	(Pb)	197	2	768.50 ug/l	0.00	1.29	2000	(Pb)	
208	Pb	197	2	791.90 ug/l	0.00	1.26	5000	Pb	
209	Bi	197	1	0.68 ug/l	0.00	1.36	2000	Bi	
232	Th	197	2	27.46 ug/l	0.00	3.02	2000	Th	
238	U	197	2	10.00 ug/l	0.00	0.77	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6126911	1.40	6939269	88.3	70 - 140	Li	
45	Sc	1	405696	0.49	481965	84.2	70 - 140	Sc	
45	Sc	2	6631963	0.55	7351212	90.2	70 - 140	Sc	
72	Ge	1	240218	1.30	284165	84.5	70 - 140	Ge	
72	Ge	2	1323008	0.27	1476522	89.6	70 - 140	Ge	
115	In	2	8210808	1.36	8960157	91.6	70 - 140	In	
165	Ho	1	5782966	1.45	6560437	88.1	70 - 140	Ho	
165	Ho	2	11234694	0.77	11859600	94.7	70 - 140	Ho	
197	Au	1	1946250	0.73	2238589	86.9	70 - 140	Au	
197	Au	2	2561649	0.19	2712431	94.4	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\155SMPL.D\155SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\155SMPL.D\155SMPL.D#
Date Acquired: Apr 14 2010 07:38 am
Operator:
Sample Name: LW3E0
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	29.05 ug/l	0.00	1.60	1000	Li	
9	Be	6		2	1.09 ug/l	0.00	1.67	1000	Be	
11	B	6		2	10.06 ug/l	0.00	3.76	2000	B	
23	Na	45		1	348.50 ug/l	0.00	0.86	200000	Na	
24	Mg	45		1	7823.00 ug/l	0.00	0.49	200000	Mg	
27	Al	45		1	17260.00 ug/l	0.00	0.77	200000	Al	
28	Si	45		2	927.60 ug/l	0.00	0.15	200000	Si	
29	Si	45		2	902.00 ug/l	0.00	1.31	200000	Si	
31	P	45		1	461.70 ug/l	0.00	1.60	200000	P	
34	S	45		1	-199.00 ug/l	0.00	28.41	200000	S	
34	S	45		2	-337.70 ug/l	0.00	7.08	200000	S	
39	K	45		1	2036.00 ug/l	0.00	1.06	200000	K	
44	Ca	45		2	20830.00 ug/l	0.00	1.14	200000	Ca	
47	Ti	72		2	161.60 ug/l	0.00	1.21	5000	Ti	
51	V	72		1	33.25 ug/l	0.00	0.30	2000	V	
52	Cr	72		1	27.23 ug/l	0.00	0.98	2000	Cr	
55	Mn	72		1	590.50 ug/l	0.00	0.27	5000	Mn	
57	Fe	72		1	30180.00 ug/l	0.00	0.37	200000	Fe	
59	Co	72		1	12.63 ug/l	0.00	0.54	2000	Co	
60	Ni	72		1	34.13 ug/l	0.00	1.22	2000	Ni	
63	Cu	72		1	23.75 ug/l	0.00	0.49	5000	Cu	
66	Zn	72		1	90.11 ug/l	0.00	0.95	5000	Zn	
75	As	72		1	4.57 ug/l	0.00	0.08	2000	As	
78	Se	72		1	1.98 ug/l	0.00	3.56	2000	Se	
88	Sr	72		2	69.32 ug/l	0.00	1.35	5000	Sr	
89	Y	72		1	14.81 ug/l	0.00	0.14	2000	Y	
90	Zr	72		1	8.25 ug/l	0.00	0.90	2000	Zr	
93	Nb	72		1	0.81 ug/l	0.00	20.02	2000	Nb	
95	Mo	72		2	0.90 ug/l	0.00	1.85	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	9.95	2000	Ru	
103	Rh	72		1	-0.01 ug/l	0.00	5.58	2000	Rh	
105	Pd	72		1	0.03 ug/l	0.00	14.73	2000	Pd	
107	Ag	115		2	0.09 ug/l	0.00	6.70	400	Ag	
111	Cd	115		2	0.15 ug/l	0.00	2.21	2000	Cd	
118	Sn	115		2	12.96 ug/l	0.00	2.92	2000	Sn	
121	Sb	165		2	0.15 ug/l	0.00	7.31	1000	Sb	
125	Te	165		1	-0.02 ug/l	0.00	135.92	2000	Te	
133	Cs	165		1	0.75 ug/l	0.00	2.50	2000	Cs	
137	Ba	165		2	211.40 ug/l	0.00	1.67	5000	Ba	
139	La	165		1	15.01 ug/l	0.00	1.04	2000	La	
140	Ce	165		1	32.09 ug/l	0.00	0.88	2000	Ce	
141	Pr	165		1	4.49 ug/l	0.00	1.15	2000	Pr	
146	Nd	165		1	18.68 ug/l	0.00	1.62	2000	Nd	
147	Sm	165		2	4.09 ug/l	0.00	1.70	2000	Sm	
178	Hf	165		1	0.12 ug/l	0.00	2.34	2000	Hf	
181	Ta	165		1	-0.23 ug/l	0.00	4.78	2000	Ta	
182	W	197		1	2.13 ug/l	0.00	11.67	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	555.74	2000	Pt	
205	Tl	197		2	0.58 ug/l	0.00	6.81	2000	Tl	
206	(Pb)	197		2	23.94 ug/l	0.00	1.54	2000	(Pb)	
207	(Pb)	197		2	22.46 ug/l	0.00	1.81	2000	(Pb)	
208	Pb	197		2	23.31 ug/l	0.00	1.83	5000	Pb	
209	Bi	197		1	0.18 ug/l	0.00	1.42	2000	Bi	
232	Th	197		2	3.47 ug/l	0.00	0.17	2000	Th	
238	U	197		2	1.02 ug/l	0.00	1.30	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6313672	1.59	6939269	91.0	70 - 140	Li	
45	Sc	1	429579	0.70	481965	89.1	70 - 140	Sc	
45	Sc	2	7089259	0.32	7351212	96.4	70 - 140	Sc	
72	Ge	1	246643	0.80	284165	86.8	70 - 140	Ge	
72	Ge	2	1359255	1.50	1476622	92.1	70 - 140	Ge	
115	In	2	8525463	0.90	8960157	95.1	70 - 140	In	
165	Ho	1	6096210	1.02	6560437	92.9	70 - 140	Ho	
165	Ho	2	11448829	0.90	11863600	96.5	70 - 140	Ho	
197	Au	1	2001754	0.84	2238589	89.4	70 - 140	Au	
197	Au	2	2583872	0.37	2712431	95.3	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\156_CCV.D\156_CCV.D#

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\156_CCV.D\156_CCV.D#
Date Acquired: Apr 14 2010 07:45 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	96.13	ug/l	1.60	100	96.1	90 - 110	Li	
9	Be	6	2	97.30	ug/l	3.21	100	97.3	90 - 110	Be	
11	B	6	2	192.20	ug/l	2.26	200	96.1	90 - 110	B	
23	Na	45	1	1236.00	ug/l	0.25	1250	98.9	90 - 110	Na	
24	Mg	45	1	2454.00	ug/l	0.82	2500	98.2	90 - 110	Mg	
27	Al	45	1	1198.00	ug/l	0.42	1250	95.8	90 - 110	Al	
28	Si	45	2	1206.00	ug/l	1.07	1250	96.5	90 - 110	Si	
29	Si	45	2	1193.00	ug/l	1.53	1250	95.4	90 - 110	Si	
31	P	45	1	1201.00	ug/l	0.82	1250	96.1	90 - 110	P	
34	S	45	1	18090.00	ug/l	1.29	20000	90.5	90 - 110	S	
34	S	45	2	19080.00	ug/l	0.78	20000	95.4	90 - 110	S	
39	K	45	1	1237.00	ug/l	0.25	1250	99.0	90 - 110	K	
44	Ca	45	2	2510.00	ug/l	1.03	2500	100.4	90 - 110	Ca	
47	Ti	72	2	96.47	ug/l	0.75	100	96.5	90 - 110	Ti	
51	V	72	1	100.70	ug/l	0.92	100	100.7	90 - 110	V	
52	Cr	72	1	100.90	ug/l	0.60	100	100.9	90 - 110	Cr	
55	Mn	72	1	98.64	ug/l	0.48	100	98.6	90 - 110	Mn	
57	Fe	72	1	2570.00	ug/l	1.37	2500	102.8	90 - 110	Fe	
59	Co	72	1	99.80	ug/l	0.78	100	99.8	90 - 110	Co	
60	Ni	72	1	100.20	ug/l	0.68	100	100.2	90 - 110	Ni	
63	Cu	72	1	102.00	ug/l	0.17	100	102.0	90 - 110	Cu	
66	Zn	72	1	98.08	ug/l	1.07	100	98.1	90 - 110	Zn	
75	As	72	1	100.20	ug/l	1.19	100	100.2	90 - 110	As	
78	Se	72	1	99.08	ug/l	0.30	100	99.1	90 - 110	Se	
88	Sr	72	2	98.88	ug/l	2.03	100	98.9	90 - 110	Sr	
89	Y	72	1	103.10	ug/l	2.14	100	103.1	90 - 110	Y	
90	Zr	72	1	106.70	ug/l	0.44	100	106.7	90 - 110	Zr	
93	Nb	72	1	51.98	ug/l	0.44	50	104.0	90 - 110	Nb	
95	Mo	72	2	96.76	ug/l	1.95	100	96.8	90 - 110	Mo	
101	Ru	72	1	103.20	ug/l	0.80	100	103.2	90 - 110	Ru	
103	Rh	72	1	104.40	ug/l	0.84	100	104.4	90 - 110	Rh	
105	Pd	72	1	10.24	ug/l	0.33	10	102.4	90 - 110	Pd	
107	Ag	115	2	19.68	ug/l	1.79	20	98.4	90 - 110	Ag	
111	Cd	115	2	95.78	ug/l	1.70	100	95.8	90 - 110	Cd	
118	Sn	115	2	110.00	ug/l	1.18	100	110.0	90 - 110	Sn	
121	Sb	165	2	48.70	ug/l	0.40	50	97.4	90 - 110	Sb	
125	Te	165	1	95.46	ug/l	2.02	100	95.5	90 - 110	Te	
133	Cs	165	1	96.42	ug/l	1.63	100	96.4	90 - 110	Cs	
137	Ba	165	2	97.49	ug/l	0.57	100	97.5	90 - 110	Ba	
139	La	165	1	98.84	ug/l	0.78	100	98.8	90 - 110	La	
140	Ce	165	1	98.98	ug/l	1.49	100	99.0	90 - 110	Ce	
141	Pr	165	1	97.94	ug/l	1.07	100	97.9	90 - 110	Pr	
146	Nd	165	1	96.27	ug/l	0.79	100	96.3	90 - 110	Nd	
147	Sm	165	2	95.35	ug/l	0.72	100	95.4	90 - 110	Sm	
178	Hf	165	1	87.36	ug/l	1.75	100	87.4	90 - 110	Hf	Fail
181	Ta	165	1	96.67	ug/l	1.94	100	96.7	90 - 110	Ta	
182	W	197	1	92.98	ug/l	1.02	100	93.0	90 - 110	W	
195	Pt	197	1	9.60	ug/l	2.22	10	96.0	90 - 110	Pt	
205	Tl	197	2	95.29	ug/l	0.80	100	95.3	90 - 110	Tl	
206	(Pb)	197	2	97.90	ug/l	0.64	100	97.9	90 - 110	(Pb)	
207	(Pb)	197	2	95.74	ug/l	1.01	100	95.7	90 - 110	(Pb)	
208	Pb	197	2	97.49	ug/l	1.35	100	97.5	90 - 110	Pb	
209	Bi	197	1	100.00	ug/l	0.81	100	100.0	90 - 110	Bi	
232	Th	197	2	91.30	ug/l	1.19	100	91.3	90 - 110	Th	
238	U	197	2	95.10	ug/l	0.58	100	95.1	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6081390	1.73	6939269	87.6	70 - 140	Li	
45	Sc	1	399675	0.61	481965	82.9	70 - 140	Sc	
45	Sc	2	6572313	0.50	7351212	89.4	70 - 140	Sc	
72	Ge	1	246562	1.30	284165	86.8	70 - 140	Ge	
72	Ge	2	1343478	1.00	1476622	91.0	70 - 140	Ge	
115	In	2	8215235	0.99	8960157	91.7	70 - 140	In	
165	Ho	1	5892864	0.41	6560437	89.8	70 - 140	Ho	
165	Ho	2	11018977	0.75	11869600	92.8	70 - 140	Ho	
197	Au	1	1989831	0.48	2238589	88.9	70 - 140	Au	
197	Au	2	2545814	0.77	2712431	93.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\157_CCB.D\157_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\157_CCB.D\157_CCB.D#
Date Acquired: Apr 14 2010 07:53 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.005	ug/l	3739.00	1.35	Li	
9 Be	6	2	0.008	ug/l	58.35	0.23	Be	
11 B	6	2	2.352	ug/l	5.08	14.94	B	
23 Na	45	1	1.170	ug/l	30.42	10.60	Na	
24 Mg	45	1	0.103	ug/l	84.98	3.46	Mg	
27 Al	45	1	-1.376	ug/l	2.64	8.94	Al	
28 Si	45	2	-0.506	ug/l	44.70	35.60	Si	
29 Si	45	2	-3.773	ug/l	21.15	35.60	Si	
31 P	45	1	3.585	ug/l	40.81	16.46	P	
34 S	45	1	-580.100	ug/l	13.43	666.00	S	
34 S	45	2	-702.700	ug/l	2.62	666.00	S	FAIL
39 K	45	1	-3.934	ug/l	12.15	16.66	K	
44 Ca	45	2	-1.852	ug/l	16.03	97.40	Ca	
47 Ti	72	2	0.334	ug/l	8.07	1.15	Ti	
51 V	72	1	-0.070	ug/l	20.53	4.74	V	
52 Cr	72	1	-0.008	ug/l	90.77	6.52	Cr	
55 Mn	72	1	-0.013	ug/l	17.13	0.47	Mn	
57 Fe	72	1	13.410	ug/l	29.58	40.70	Fe	
59 Co	72	1	0.002	ug/l	37.33	0.43	Co	
60 Ni	72	1	-0.002	ug/l	325.56	0.46	Ni	
63 Cu	72	1	-0.018	ug/l	40.81	0.19	Cu	
66 Zn	72	1	0.025	ug/l	57.62	7.48	Zn	
75 As	72	1	0.057	ug/l	35.02	1.89	As	
78 Se	72	1	0.238	ug/l	41.05	0.62	Se	
88 Sr	72	2	0.003	ug/l	19.37	0.23	Sr	
89 Y	72	1	0.003	ug/l	94.43	0.42	Y	
90 Zr	72	1	0.121	ug/l	11.12	0.50	Zr	
93 Nb	72	1	1.871	ug/l	17.97	4.46	Nb	
95 Mo	72	2	0.253	ug/l	7.68	0.43	Mo	
101 Ru	72	1	0.005	ug/l	87.58	2.00	Ru	
103 Rh	72	1	0.005	ug/l	104.96	1.63	Rh	
105 Pd	72	1	0.001	ug/l	62.93	0.08	Pd	
107 Ag	115	2	0.000	ug/l	223.07	0.08	Ag	
111 Cd	115	2	0.009	ug/l	12.73	0.11	Cd	
118 Sn	115	2	6.035	ug/l	1.54	0.30	Sn	FAIL
121 Sb	165	2	-0.033	ug/l	9.43	2.24	Sb	
125 Te	165	1	0.152	ug/l	20.73	1.07	Te	
133 Cs	165	1	0.049	ug/l	10.65	0.11	Cs	
137 Ba	165	2	0.002	ug/l	105.76	0.39	Ba	
139 La	165	1	0.002	ug/l	45.17	0.10	La	
140 Ce	165	1	0.003	ug/l	34.51	1.77	Ce	
141 Pr	165	1	0.002	ug/l	61.77	0.08	Pr	
146 Nd	165	1	0.002	ug/l	189.11	0.21	Nd	
147 Sm	165	2	0.000	ug/l	1619.60	0.65	Sm	
178 Hf	165	1	0.118	ug/l	9.07	2.26	Hf	
181 Ta	165	1	-0.011	ug/l	342.96	1.46	Ta	
182 W	197	1	2.029	ug/l	14.47	1.68	W	FAIL
195 Pt	197	1	0.000	ug/l	812.70	0.12	Pt	
205 Tl	197	2	0.996	ug/l	3.38	1.10	Tl	
206 (Pb)	197	2	0.174	ug/l	7.70	2.00	(Pb)	
207 (Pb)	197	2	0.174	ug/l	9.12	2.00	(Pb)	
208 Pb	197	2	0.174	ug/l	4.61	0.25	Pb	
209 Bi	197	1	0.036	ug/l	5.35	1.46	Bi	
232 Th	197	2	0.801	ug/l	2.57	1.10	Th	
238 U	197	2	0.038	ug/l	10.95	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	6213713	1.47	6939269	89.5	70 - 140	Li	
45 Sc	1	409932	1.16	481965	85.1	70 - 140	Sc	
45 Sc	2	6505633	0.71	7351212	88.5	70 - 140	Sc	
72 Ge	1	240986	0.93	284165	84.8	70 - 140	Ge	
72 Ge	2	1308451	0.47	1476622	88.6	70 - 140	Ge	
115 In	2	8202070	0.54	8960157	91.5	70 - 140	In	
165 Ho	1	5837797	0.54	6560437	89.0	70 - 140	Ho	
165 Ho	2	11047335	0.87	11869500	93.1	70 - 140	Ho	
197 Au	1	1995460	0.54	2238589	89.1	70 - 140	Au	
197 Au	2	2552702	0.82	2712431	94.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\158SMPL.D\158SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\158SMPL.D\158SMPL.D#
Date Acquired: Apr 14 2010 08:00 am
Operator:
Sample Name: LW0V4
Misc Info:
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	42.05 ug/l	0.00	1.93	1000	Li	
9 Be	6		2	1.55 ug/l	0.00	1.96	1000	Be	
11 B	6		2	145.90 ug/l	0.00	2.16	2000	B	
23 Na	45		1	10640.00 ug/l	0.00	1.46	200000	Na	
24 Mg	45		1	7498.00 ug/l	0.00	2.23	200000	Mg	
27 Al	45		1	36640.00 ug/l	0.00	1.92	200000	Al	
28 Si	45		2	12360.00 ug/l	0.00	0.59	200000	Si	
29 Si	45		2	11900.00 ug/l	0.00	0.81	200000	Si	
31 P	45		1	20560.00 ug/l	0.00	1.92	200000	P	
34 S	45		1	1944.00 ug/l	0.00	4.23	200000	S	
34 S	45		2	1786.00 ug/l	0.00	2.86	200000	S	
39 K	45		1	9551.00 ug/l	0.00	1.13	200000	K	
44 Ca	45		2	104900.00 ug/l	0.00	0.74	200000	Ca	
47 Ti	72		2	1215.00 ug/l	0.00	0.41	5000	Ti	
51 V	72		1	66.49 ug/l	0.00	0.60	2000	V	
52 Cr	72		1	275.50 ug/l	0.00	0.74	2000	Cr	
55 Mn	72		1	3746.00 ug/l	0.00	1.25	5000	Mn	
57 Fe	72		1	637600.00 ug/l	0.00	0.81	200000	Fe	>LDR
59 Co	72		1	88.82 ug/l	0.00	0.93	2000	Co	
60 Ni	72		1	239.20 ug/l	0.00	0.22	2000	Ni	
63 Cu	72		1	2445.00 ug/l	0.00	1.62	5000	Cu	
66 Zn	72		1	2867.00 ug/l	0.00	1.26	5000	Zn	
75 As	72		1	65.16 ug/l	0.00	0.37	2000	As	
78 Se	72		1	1.77 ug/l	0.00	7.73	2000	Se	
88 Sr	72		2	593.90 ug/l	0.00	1.22	5000	Sr	
89 Y	72		1	12.40 ug/l	0.00	1.12	2000	Y	
90 Zr	72		1	15.69 ug/l	0.00	0.65	2000	Zr	
93 Nb	72		1	4.37 ug/l	0.00	6.61	2000	Nb	
95 Mo	72		2	18.10 ug/l	0.00	0.68	2000	Mo	
101 Ru	72		1	0.00 ug/l	0.00	101.87	2000	Ru	
103 Rh	72		1	0.18 ug/l	0.00	0.99	2000	Rh	
105 Pd	72		1	0.05 ug/l	0.00	7.26	2000	Pd	
107 Ag	115		2	12.45 ug/l	0.00	1.66	400	Ag	
111 Cd	115		2	4.49 ug/l	0.00	0.79	2000	Cd	
118 Sn	115		2	3296.00 ug/l	0.00	1.47	2000	Sn	>LDR
121 Sb	165		2	46.59 ug/l	0.00	1.15	1000	Sb	
125 Te	165		1	0.16 ug/l	0.00	44.01	2000	Te	
133 Cs	165		1	0.84 ug/l	0.00	1.14	2000	Cs	
137 Ba	165		2	5127.00 ug/l	0.00	0.04	5000	Ba	>LDR
139 La	165		1	23.36 ug/l	0.00	0.45	2000	La	
140 Ce	165		1	46.44 ug/l	0.00	1.44	2000	Ce	
141 Pr	165		1	5.51 ug/l	0.00	1.34	2000	Pr	
146 Nd	165		1	20.88 ug/l	0.00	1.00	2000	Nd	
147 Sm	165		2	3.95 ug/l	0.00	0.33	2000	Sm	
178 Hf	165		1	1.47 ug/l	0.00	6.03	2000	Hf	
181 Ta	165		1	0.15 ug/l	0.00	17.11	2000	Ta	
182 W	197		1	12.82 ug/l	0.00	1.58	2000	W	
195 Pt	197		1	0.02 ug/l	0.00	10.16	2000	Pt	
205 Tl	197		2	0.75 ug/l	0.00	1.72	2000	Tl	
206 (Pb)	197		2	4324.00 ug/l	0.00	0.38	2000	(Pb)	
207 (Pb)	197		2	4076.00 ug/l	0.00	0.89	2000	(Pb)	
208 Pb	197		2	4207.00 ug/l	0.00	0.58	5000	Pb	
209 Bi	197		1	3.47 ug/l	0.00	1.50	2000	Bi	
232 Th	197		2	12.75 ug/l	0.00	4.10	2000	Th	
238 U	197		2	2.84 ug/l	0.00	0.99	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	5756050	0.60	6939269	82.9	70 - 140	Li	
45 Sc	1	401309	1.58	481965	83.3	70 - 140	Sc	
45 Sc	2	6471093	1.04	7351212	88.0	70 - 140	Sc	
72 Ge	1	249274	0.75	284165	87.7	70 - 140	Ge	
72 Ge	2	1320656	1.24	1476622	89.4	70 - 140	Ge	
115 In	2	7494465	0.87	8960157	83.6	70 - 140	In	
165 Ho	1	5512856	0.86	6560437	84.0	70 - 140	Ho	
165 Ho	2	10535023	0.89	11869600	88.8	70 - 140	Ho	
197 Au	1	1624936	0.43	2238589	72.6	70 - 140	Au	
197 Au	2	2130513	0.67	2712431	78.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\1598MPL.D\1598MPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\1598MPL.D\1598MPL.D#
Date Acquired: Apr 14 2010 08:07 am
Operator:
Sample Name: LWOV4V
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 10.00
Total Dil Factor: 10.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	8.43 ug/l	0.00	5.89	1000	Li	
9	Be	6		2	0.31 ug/l	0.00	2.65	1000	Be	
11	B	6		2	24.10 ug/l	0.00	1.13	2000	B	
23	Na	45		1	2275.00 ug/l	0.00	0.32	200000	Na	
24	Mg	45		1	1673.00 ug/l	0.00	0.80	200000	Mg	
27	Al	45		1	8040.00 ug/l	0.00	1.64	200000	Al	
28	Si	45		2	2537.00 ug/l	0.00	1.51	200000	Si	
29	Si	45		2	2555.00 ug/l	0.00	1.00	200000	Si	
31	P	45		1	4713.00 ug/l	0.00	1.58	200000	P	
34	S	45		1	102.20 ug/l	0.00	91.67	200000	S	
34	S	45		2	-0.88 ug/l	0.00	5218.30	200000	S	
39	K	45		1	2074.00 ug/l	0.00	0.74	200000	K	
44	Ca	45		2	22100.00 ug/l	0.00	0.80	200000	Ca	
47	Ti	72		2	261.60 ug/l	0.00	1.06	5000	Ti	
51	V	72		1	14.27 ug/l	0.00	0.12	2000	V	
52	Cr	72		1	61.74 ug/l	0.00	0.24	2000	Cr	
55	Mn	72		1	834.10 ug/l	0.00	1.34	5000	Mn	
57	Fe	72		1	143000.00 ug/l	0.00	1.09	200000	Fe	
59	Co	72		1	20.33 ug/l	0.00	1.16	2000	Co	
60	Ni	72		1	55.72 ug/l	0.00	0.85	2000	Ni	
63	Cu	72		1	579.50 ug/l	0.00	0.63	5000	Cu	
66	Zn	72		1	747.40 ug/l	0.00	0.53	5000	Zn	
75	As	72		1	15.29 ug/l	0.00	0.38	2000	As	
78	Se	72		1	0.38 ug/l	0.00	17.63	2000	Se	
88	Sr	72		2	129.20 ug/l	0.00	0.80	5000	Sr	
89	Y	72		1	2.68 ug/l	0.00	2.71	2000	Y	
90	Zr	72		1	2.67 ug/l	0.00	1.24	2000	Zr	
93	Nb	72		1	0.78 ug/l	0.00	10.92	2000	Nb	
95	Mo	72		2	3.79 ug/l	0.00	1.03	2000	Mo	
101	Ru	72		1	-0.01 ug/l	0.00	17.87	2000	Ru	
103	Rh	72		1	0.03 ug/l	0.00	10.68	2000	Rh	
105	Pd	72		1	0.01 ug/l	0.00	17.47	2000	Pd	
107	Ag	115		2	3.58 ug/l	0.00	2.17	400	Ag	
111	Cd	115		2	0.99 ug/l	0.00	3.11	2000	Cd	
118	Sn	115		2	625.60 ug/l	0.00	0.51	2000	Sn	
121	Sb	165		2	9.46 ug/l	0.00	1.54	1000	Sb	
125	Te	165		1	0.03 ug/l	0.00	91.00	2000	Te	
133	Cs	165		1	0.15 ug/l	0.00	5.00	2000	Cs	
137	Ba	165		2	1055.00 ug/l	0.00	1.66	5000	Ba	
139	La	165		1	4.84 ug/l	0.00	1.03	2000	La	
140	Ce	165		1	9.60 ug/l	0.00	1.31	2000	Ce	
141	Pr	165		1	1.11 ug/l	0.00	0.83	2000	Pr	
146	Nd	165		1	4.28 ug/l	0.00	2.79	2000	Nd	
147	Sm	165		2	0.75 ug/l	0.00	2.37	2000	Sm	
178	Hf	165		1	0.06 ug/l	0.00	12.84	2000	Hf	
181	Ta	165		1	-0.16 ug/l	0.00	8.41	2000	Ta	
182	W	197		1	1.95 ug/l	0.00	2.77	2000	W	
195	Pt	197		1	0.00 ug/l	0.00	124.49	2000	Pt	
205	Tl	197		2	0.17 ug/l	0.00	10.80	2000	Tl	
206	(Pb)	197		2	826.60 ug/l	0.00	1.08	2000	(Pb)	
207	(Pb)	197		2	783.80 ug/l	0.00	0.72	2000	(Pb)	
208	Pb	197		2	806.30 ug/l	0.00	1.14	5000	Pb	
209	Bi	197		1	0.65 ug/l	0.00	0.50	2000	Bi	
232	Th	197		2	1.41 ug/l	0.00	2.52	2000	Th	
238	U	197		2	0.52 ug/l	0.00	2.85	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	6140898	0.34	6939269	88.5	70 - 140	Li	
45	Sc	1	405319	0.84	481965	84.1	70 - 140	Sc	
45	Sc	2	6603085	0.96	7351212	89.8	70 - 140	Sc	
72	Ge	1	243761	0.95	284165	85.8	70 - 140	Ge	
72	Ge	2	1312107	0.63	1476622	88.9	70 - 140	Ge	
115	In	2	8154212	1.78	8960157	91.0	70 - 140	In	
165	Ho	1	5855138	0.70	6560437	89.2	70 - 140	Ho	
165	Ho	2	11152941	1.22	11869500	94.0	70 - 140	Ho	
197	Au	1	1963724	1.09	2238589	87.7	70 - 140	Au	
197	Au	2	2554340	1.36	2712431	94.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\160SMPL.D\160SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\160SMPL.D\160SMPL.D#
Date Acquired: Apr 14 2010 08:14 am
Operator:
Sample Name: LW0V4S
Misc Info:
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	570.30 ug/l	0.00	0.63	1000	Li	
9	Be	6		2	490.60 ug/l	0.00	0.44	1000	Be	
11	B	6		2	661.00 ug/l	0.00	0.44	2000	B	
23	Na	45		1	15580.00 ug/l	0.00	0.63	200000	Na	
24	Mg	45		1	14540.00 ug/l	0.00	1.25	200000	Mg	
27	Al	45		1	47700.00 ug/l	0.00	1.94	200000	Al	
28	Si	45		2	11150.00 ug/l	0.00	0.29	200000	Si	
29	Si	45		2	10890.00 ug/l	0.00	1.46	200000	Si	
31	P	45		1	37830.00 ug/l	0.00	0.52	200000	P	
34	S	45		1	6493.00 ug/l	0.00	2.08	200000	S	
34	S	45		2	7215.00 ug/l	0.00	1.63	200000	S	
39	K	45		1	15640.00 ug/l	0.00	1.92	200000	K	
44	Ca	45		2	140900.00 ug/l	0.00	0.38	200000	Ca	
47	Ti	72		2	1405.00 ug/l	0.00	0.98	5000	Ti	
51	V	72		1	550.10 ug/l	0.00	1.31	2000	V	
52	Cr	72		1	667.30 ug/l	0.00	1.13	2000	Cr	
55	Mn	72		1	2639.00 ug/l	0.00	0.49	5000	Mn	
57	Fe	72		1	233700.00 ug/l	0.00	1.28	200000	Fe	>LDR
59	Co	72		1	513.30 ug/l	0.00	2.05	2000	Co	
60	Ni	72		1	563.40 ug/l	0.00	1.50	2000	Ni	
63	Cu	72		1	2410.00 ug/l	0.00	0.32	5000	Cu	
66	Zn	72		1	3555.00 ug/l	0.00	0.65	5000	Zn	
75	As	72		1	546.20 ug/l	0.00	0.42	2000	As	
78	Se	72		1	437.80 ug/l	0.00	1.10	2000	Se	
88	Sr	72		2	1137.00 ug/l	0.00	0.36	5000	Sr	
89	Y	72		1	18.80 ug/l	0.00	0.69	2000	Y	
90	Zr	72		1	485.30 ug/l	0.00	0.70	2000	Zr	
93	Nb	72		1	111.30 ug/l	0.00	1.22	2000	Nb	
95	Mo	72		2	490.40 ug/l	0.00	0.30	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	114.28	2000	Ru	
103	Rh	72		1	1.21 ug/l	0.00	1.22	2000	Rh	
105	Pd	72		1	0.05 ug/l	0.00	10.18	2000	Pd	
107	Ag	115		2	55.33 ug/l	0.00	2.64	400	Ag	
111	Cd	115		2	470.50 ug/l	0.00	1.28	2000	Cd	
118	Sn	115		2	4598.00 ug/l	0.00	0.80	2000	Sn	>LDR
121	Sb	165		2	261.70 ug/l	0.00	1.43	1000	Sb	
125	Te	165		1	0.30 ug/l	0.00	21.60	2000	Te	
133	Cs	165		1	1.36 ug/l	0.00	0.66	2000	Cs	
137	Ba	165		2	4954.00 ug/l	0.00	1.28	5000	Ba	
139	La	165		1	30.40 ug/l	0.00	1.63	2000	La	
140	Ce	165		1	50.58 ug/l	0.00	0.37	2000	Ce	
141	Pr	165		1	7.14 ug/l	0.00	0.69	2000	Pr	
146	Nd	165		1	27.18 ug/l	0.00	0.38	2000	Nd	
147	Sm	165		2	490.40 ug/l	0.00	0.22	2000	Sm	
178	Hf	165		1	3.16 ug/l	0.00	1.87	2000	Hf	
181	Ta	165		1	0.30 ug/l	0.00	26.00	2000	Ta	
182	W	197		1	491.10 ug/l	0.00	0.64	2000	W	
195	Pt	197		1	0.03 ug/l	0.00	6.82	2000	Pt	
205	Tl	197		2	524.50 ug/l	0.00	1.16	2000	Tl	
206	[Pb]	197		2	27820.00 ug/l	0.00	1.35	2000	(Pb)	
207	[Pb]	197		2	27120.00 ug/l	0.00	0.88	2000	(Pb)	
208	Pb	197		2	27650.00 ug/l	0.00	0.83	5000	Pb	>LDR
209	Bi	197		1	524.10 ug/l	0.00	0.42	2000	Bi	
232	Th	197		2	553.60 ug/l	0.00	0.70	2000	Th	
238	U	197		2	558.10 ug/l	0.00	0.73	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5496379	0.26	6939269	79.2	70 - 140	Li	
45	Sc	1	395926	0.71	481965	82.1	70 - 140	Sc	
45	Sc	2	6382161	1.05	7351212	86.8	70 - 140	Sc	
72	Ge	1	235067	0.95	284165	82.7	70 - 140	Ge	
72	Ge	2	1283647	0.15	1476622	86.9	70 - 140	Ge	
115	In	2	7370472	1.34	8960157	82.3	70 - 140	In	
165	Ho	1	5495020	0.53	6560437	83.8	70 - 140	Ho	
165	Ho	2	10475646	0.64	11869600	88.3	70 - 140	Ho	
197	Au	1	1648013	0.65	2238589	73.6	70 - 140	Au	
197	Au	2	2174911	0.92	2712431	80.2	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures# 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\161SMPL.D\161SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\161SMPL.D\161SMPL.D#
Date Acquired: Apr 14 2010 08:21 am
Operator:
Sample Name: LW0V4D
Misc Info:
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7	Li	6		2	534.00 ug/l	0.00	1.71	1000	Li	
9	Be	6		2	477.40 ug/l	0.00	1.92	1000	Be	
11	B	6		2	593.80 ug/l	0.00	1.11	2000	B	
23	Na	45		1	12200.00 ug/l	0.00	1.50	200000	Na	
24	Mg	45		1	9250.00 ug/l	0.00	1.37	200000	Mg	
27	Al	45		1	37230.00 ug/l	0.00	1.22	200000	Al	
28	Si	45		2	8159.00 ug/l	0.00	0.91	200000	Si	
29	Si	45		2	8016.00 ug/l	0.00	0.98	200000	Si	
31	P	45		1	38950.00 ug/l	0.00	0.30	200000	P	
34	S	45		1	5466.00 ug/l	0.00	4.65	200000	S	
34	S	45		2	6150.00 ug/l	0.00	2.74	200000	S	
39	K	45		1	10430.00 ug/l	0.00	1.34	200000	K	
44	Ca	45		2	128900.00 ug/l	0.00	0.44	200000	Ca	
47	Ti	72		2	1009.00 ug/l	0.00	0.64	5000	Ti	
51	V	72		1	534.90 ug/l	0.00	1.22	2000	V	
52	Cr	72		1	573.40 ug/l	0.00	0.83	2000	Cr	
55	Mn	72		1	1617.00 ug/l	0.00	1.89	5000	Mn	
57	Fe	72		1	146100.00 ug/l	0.00	1.23	200000	Fe	
59	Co	72		1	493.60 ug/l	0.00	1.38	2000	Co	
60	Ni	72		1	525.70 ug/l	0.00	2.59	2000	Ni	
63	Cu	72		1	2995.00 ug/l	0.00	1.45	5000	Cu	
66	Zn	72		1	2868.00 ug/l	0.00	1.05	5000	Zn	
75	As	72		1	584.00 ug/l	0.00	0.92	2000	As	
78	Se	72		1	452.40 ug/l	0.00	0.66	2000	Se	
88	Sr	72		2	950.80 ug/l	0.00	1.00	5000	Sr	
89	Y	72		1	23.44 ug/l	0.00	0.98	2000	Y	
90	Zr	72		1	477.10 ug/l	0.00	0.96	2000	Zr	
93	Nb	72		1	116.80 ug/l	0.00	0.94	2000	Nb	
95	Mo	72		2	495.90 ug/l	0.00	1.60	2000	Mo	
101	Ru	72		1	0.00 ug/l	0.00	72.96	2000	Ru	
103	Rh	72		1	0.16 ug/l	0.00	1.84	2000	Rh	
105	Pd	72		1	0.10 ug/l	0.00	9.69	2000	Pd	
107	Ag	115		2	54.96 ug/l	0.00	0.89	400	Ag	
111	Cd	115		2	459.80 ug/l	0.00	0.13	2000	Cd	
118	Sn	115		2	1654.00 ug/l	0.00	0.41	2000	Sn	
121	Sb	165		2	235.50 ug/l	0.00	0.66	1000	Sb	
125	Te	165		1	0.18 ug/l	0.00	12.32	2000	Te	
133	Cs	165		1	0.68 ug/l	0.00	0.56	2000	Cs	
137	Ba	165		2	3509.00 ug/l	0.00	0.90	5000	Ba	
139	La	165		1	26.09 ug/l	0.00	1.22	2000	La	
140	Ce	165		1	53.63 ug/l	0.00	0.37	2000	Ce	
141	Pr	165		1	6.34 ug/l	0.00	1.34	2000	Pr	
146	Nd	165		1	25.12 ug/l	0.00	0.71	2000	Nd	
147	Sm	165		2	487.28 ug/l	0.00	0.31	2000	Sm	
178	Hf	165		1	1.25 ug/l	0.00	9.01	2000	Hf	
181	Ta	165		1	0.26 ug/l	0.00	24.89	2000	Ta	
182	W	197		1	505.28 ug/l	0.00	0.61	2000	W	
195	Pt	197		1	0.01 ug/l	0.00	3.04	2000	Pt	
205	Tl	197		2	523.40 ug/l	0.00	1.11	2000	Tl	
206	(Pb)	197		2	3587.00 ug/l	0.00	1.58	2000	(Pb)	
207	(Pb)	197		2	3451.00 ug/l	0.00	1.03	2000	(Pb)	
208	Pb	197		2	3525.00 ug/l	0.00	0.74	5000	Pb	
209	Bi	197		1	498.00 ug/l	0.00	0.61	2000	Bi	
232	Th	197		2	542.00 ug/l	0.00	0.95	2000	Th	
238	U	197		2	543.10 ug/l	0.00	0.71	2000	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5447181	0.73	6939269	78.5	70 - 140	Li	
45	Sc	1	388699	0.35	481965	80.6	70 - 140	Sc	
45	Sc	2	6304285	1.20	7351212	85.8	70 - 140	Sc	
72	Ge	1	231082	0.78	284165	81.3	70 - 140	Ge	
72	Ge	2	1261210	0.81	1476622	85.4	70 - 140	Ge	
115	In	2	7565525	0.39	8960157	84.4	70 - 140	In	
165	Ho	1	5626781	1.12	6560437	85.8	70 - 140	Ho	
165	Ho	2	10570803	1.03	11869600	89.1	70 - 140	Ho	
197	Au	1	1699428	0.41	2238589	75.9	70 - 140	Au	
197	Au	2	2222277	0.87	2712431	81.9	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\162SMPL.D\162SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\162SMPL.D\162SMPL.D#
Date Acquired: Apr 14 2010 08:28 am
Operator:
Sample Name: LN0V4A
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element	IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element	Flag
7 Li	6		2	87.78 ug/l	0.00	0.66	1000	Li	
9 Be	6		2	6.12 ug/l	0.00	1.07	1000	Be	
11 B	6		2	585.60 ug/l	0.00	1.05	2000	B	
23 Na	45		1	10800.00 ug/l	0.00	0.57	200000	Na	
24 Mg	45		1	7798.00 ug/l	0.00	0.61	200000	Mg	
27 Al	45		1	36070.00 ug/l	0.00	0.36	200000	Al	
28 Si	45		2	14490.00 ug/l	0.00	1.07	200000	Si	
29 Si	45		2	14180.00 ug/l	0.00	1.27	200000	Si	
31 P	45		1	20570.00 ug/l	0.00	0.47	200000	P	
34 S	45		1	1945.00 ug/l	0.00	6.35	200000	S	
34 S	45		2	1658.00 ug/l	0.00	3.44	200000	S	
39 K	45		1	10370.00 ug/l	0.00	1.95	200000	K	
44 Ca	45		2	103200.00 ug/l	0.00	0.45	200000	Ca	
47 Ti	72		2	1198.00 ug/l	0.00	1.28	5000	Ti	
51 V	72		1	160.90 ug/l	0.00	0.63	2000	V	
52 Cr	72		1	358.20 ug/l	0.00	1.19	2000	Cr	
55 Mn	72		1	3694.00 ug/l	0.00	0.22	5000	Mn	
57 Fe	72		1	626500.00 ug/l	0.00	0.60	200000	Fe	>LDR
59 Co	72		1	103.50 ug/l	0.00	0.48	2000	Co	
60 Ni	72		1	274.20 ug/l	0.00	0.43	2000	Ni	
63 Cu	72		1	2412.00 ug/l	0.00	0.72	5000	Cu	
66 Zn	72		1	2838.00 ug/l	0.00	0.06	5000	Zn	
75 As	72		1	149.30 ug/l	0.00	0.76	2000	As	
78 Se	72		1	41.08 ug/l	0.00	0.87	2000	Se	
88 Sr	72		2	624.00 ug/l	0.00	0.36	5000	Sr	
89 Y	72		1	12.00 ug/l	0.00	0.40	2000	Y	
90 Zr	72		1	63.70 ug/l	0.00	0.15	2000	Zr	
93 Nb	72		1	7.05 ug/l	0.00	4.32	2000	Nb	
95 Mo	72		2	63.00 ug/l	0.00	0.62	2000	Mo	
101 Ru	72		1	-0.01 ug/l	0.00	37.75	2000	Ru	
103 Rh	72		1	0.17 ug/l	0.00	1.04	2000	Rh	
105 Pd	72		1	0.06 ug/l	0.00	6.66	2000	Pd	
107 Ag	115		2	30.23 ug/l	0.00	1.14	400	Ag	
111 Cd	115		2	8.92 ug/l	0.00	1.57	2000	Cd	
118 Sn	115		2	3245.00 ug/l	0.00	0.62	2000	Sn	>LDR
121 Sb	165		2	92.04 ug/l	0.00	0.58	1000	Sb	
125 Te	165		1	0.13 ug/l	0.00	52.84	2000	Te	
133 Cs	165		1	0.80 ug/l	0.00	1.71	2000	Cs	
137 Ba	165		2	5035.00 ug/l	0.00	1.48	5000	Ba	>LDR
139 La	165		1	22.90 ug/l	0.00	2.36	2000	La	
140 Ce	165		1	45.79 ug/l	0.00	1.26	2000	Ce	
141 Pr	165		1	5.37 ug/l	0.00	1.75	2000	Pr	
146 Nd	165		1	20.04 ug/l	0.00	1.44	2000	Nd	
147 Sm	165		2	97.43 ug/l	0.00	2.05	2000	Sm	
178 Hf	165		1	0.58 ug/l	0.00	4.37	2000	Hf	
181 Ta	165		1	0.02 ug/l	0.00	218.78	2000	Ta	
182 W	197		1	71.81 ug/l	0.00	0.16	2000	W	
195 Pt	197		1	0.01 ug/l	0.00	17.74	2000	Pt	
205 Tl	197		2	22.94 ug/l	0.00	0.25	2000	Tl	
206 (Pb)	197		2	4236.00 ug/l	0.00	1.03	2000	(Pb)	
207 (Pb)	197		2	3994.00 ug/l	0.00	2.48	2000	(Pb)	
208 Pb	197		2	4122.00 ug/l	0.00	2.27	5000	Pb	
209 Bi	197		1	3.48 ug/l	0.00	1.27	2000	Bi	
232 Th	197		2	34.48 ug/l	0.00	1.85	2000	Th	
238 U	197		2	13.25 ug/l	0.00	1.38	2000	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	5604121	0.38	6939269	80.8	70 - 140	Li	
45 Sc	1	386485	0.36	481955	80.2	70 - 140	Sc	
45 Sc	2	6299190	1.37	7351212	85.7	70 - 140	Sc	
72 Ge	1	243210	0.05	284165	85.6	70 - 140	Ge	
72 Ge	2	1323775	0.95	1476622	89.6	70 - 140	Ge	
115 In	2	7453843	1.08	8960157	83.2	70 - 140	In	
165 Ho	1	5417672	0.96	6560437	82.6	70 - 140	Ho	
165 Ho	2	10421499	0.84	11869600	87.8	70 - 140	Ho	
197 Au	1	1591710	0.50	2238589	71.1	70 - 140	Au	
197 Au	2	2141587	1.00	2712431	79.0	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\163SMPL.D\163SMPL.D#

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\163SMPL.D\163SMPL.D#
Date Acquired: Apr 14 2010 08:35 am
Operator:
Sample Name: LW3E0
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: SAMPLE
Prep Dil Factor: 2.00
Total Dil Factor: 2.00

QC Elements

Element		IS	Ref	Tune	Conc.	Corr. Conc.	RSD(%)	High Limit	Element Flag
7	Li	6		2	148.60 ug/l	0.00	6.98	1000	Li
9	Be	6		2	5.56 ug/l	0.00	2.35	1000	Be
11	B	6		2	48.86 ug/l	0.00	0.12	2000	B
23	Na	45		1	1630.00 ug/l	0.00	0.53	200000	Na
24	Mg	45		1	37180.00 ug/l	0.00	0.59	200000	Mg
27	Al	45		1	83730.00 ug/l	0.00	0.20	200000	Al
28	Si	45		2	6128.00 ug/l	0.00	0.87	200000	Si
29	Si	45		2	6062.00 ug/l	0.00	2.40	200000	Si
31	P	45		1	2032.00 ug/l	0.00	0.66	200000	P
34	S	45		1	1055.00 ug/l	0.00	23.61	200000	S
34	S	45		2	649.60 ug/l	0.00	4.50	200000	S
39	K	45		1	9537.00 ug/l	0.00	0.20	200000	K
44	Ca	45		2	99190.00 ug/l	0.00	0.35	200000	Ca
47	Ti	72		2	850.60 ug/l	0.00	0.42	5000	Ti
51	V	72		1	170.40 ug/l	0.00	1.44	2000	V
52	Cr	72		1	137.80 ug/l	0.00	0.40	2000	Cr
55	Mn	72		1	2948.00 ug/l	0.00	0.27	5000	Mn
57	Fe	72		1	151700.00 ug/l	0.00	0.59	200000	Fe
59	Co	72		1	62.79 ug/l	0.00	0.89	2000	Co
60	Ni	72		1	161.60 ug/l	0.00	0.38	2000	Ni
63	Cu	72		1	114.90 ug/l	0.00	0.28	5000	Cu
66	Zn	72		1	398.10 ug/l	0.00	0.40	5000	Zn
75	As	72		1	21.76 ug/l	0.00	0.22	2000	As
78	Se	72		1	8.54 ug/l	0.00	2.79	2000	Se
88	Sr	72		2	350.80 ug/l	0.00	0.65	5000	Sr
89	Y	72		1	76.01 ug/l	0.00	0.63	2000	Y
90	Zr	72		1	55.43 ug/l	0.00	0.25	2000	Zr
93	Nb	72		1	3.02 ug/l	0.00	8.50	2000	Nb
95	Mo	72		2	3.24 ug/l	0.00	1.68	2000	Mo
101	Ru	72		1	-0.01 ug/l	0.00	52.37	2000	Ru
103	Rh	72		1	0.00 ug/l	0.00	314.62	2000	Rh
105	Pd	72		1	0.14 ug/l	0.00	16.90	2000	Pd
107	Ag	115		2	0.42 ug/l	0.00	0.74	400	Ag
111	Cd	115		2	0.78 ug/l	0.00	2.38	2000	Cd
118	Sn	115		2	27.63 ug/l	0.00	0.75	2000	Sn
121	Sb	165		2	0.76 ug/l	0.00	1.69	1000	Sb
125	Te	165		1	0.05 ug/l	0.00	86.60	2000	Te
133	Cs	165		1	3.90 ug/l	0.00	2.00	2000	Cs
137	Ba	165		2	1069.00 ug/l	0.00	0.57	5000	Ba
139	La	165		1	81.10 ug/l	0.00	1.13	2000	La
140	Ce	165		1	168.60 ug/l	0.00	1.50	2000	Ce
141	Pr	165		1	23.62 ug/l	0.00	1.93	2000	Pr
146	Nd	165		1	99.95 ug/l	0.00	1.28	2000	Nd
147	Sm	165		2	21.40 ug/l	0.00	0.95	2000	Sm
178	Hf	165		1	1.35 ug/l	0.00	0.69	2000	Hf
181	Ta	165		1	-0.26 ug/l	0.00	11.33	2000	Ta
182	W	197		1	2.90 ug/l	0.00	9.12	2000	W
195	Pt	197		1	0.01 ug/l	0.00	26.11	2000	Pt
205	Tl	197		2	1.76 ug/l	0.00	0.43	2000	Tl
206	(Pb)	197		2	128.10 ug/l	0.00	0.50	2000	(Pb)
207	(Pb)	197		2	119.50 ug/l	0.00	1.02	2000	(Pb)
208	Pb	197		2	123.80 ug/l	0.00	0.24	5000	Pb
209	Bi	197		1	1.00 ug/l	0.00	2.70	2000	Bi
232	Th	197		2	27.15 ug/l	0.00	1.68	2000	Th
238	U	197		2	5.69 ug/l	0.00	1.65	2000	U

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5644918	0.85	6939269	81.3	70 - 140	Li	
45	Sc	1	436044	0.80	481965	90.5	70 - 140	Sc	
45	Sc	2	7192586	0.92	7351212	97.8	70 - 140	Sc	
72	Ge	1	235215	0.46	284165	82.8	70 - 140	Ge	
72	Ge	2	1299501	1.00	1476622	88.0	70 - 140	Ge	
115	In	2	7816268	0.78	8960157	87.2	70 - 140	In	
165	Ho	1	5604438	1.39	6560437	85.4	70 - 140	Ho	
165	Ho	2	10812039	0.35	11869600	91.1	70 - 140	Ho	
197	Au	1	1690900	1.66	2238589	75.5	70 - 140	Au	
197	Au	2	2274284	1.29	2712431	83.8	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\164_CCV.D\164_CCV.D$

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\164_CCV.D\164_CCV.D$
Date Acquired: Apr 14 2010 08:42 am
Operator:
Sample Name: CCV
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Element	Flag
7	Li	6	2	97.68	ug/l	1.48	100	97.7	90 - 110	Li	
9	Be	6	2	96.48	ug/l	0.16	100	96.5	90 - 110	Be	
11	B	6	2	195.30	ug/l	0.94	200	97.7	90 - 110	B	
23	Na	45	1	1236.00	ug/l	0.40	1250	98.9	90 - 110	Na	
24	Mg	45	1	2457.00	ug/l	0.83	2500	98.3	90 - 110	Mg	
27	Al	45	1	1206.00	ug/l	0.90	1250	96.5	90 - 110	Al	
28	Si	45	2	1219.00	ug/l	1.15	1250	97.5	90 - 110	Si	
29	Si	45	2	1185.00	ug/l	1.30	1250	94.8	90 - 110	Si	
31	P	45	1	1205.00	ug/l	0.97	1250	96.4	90 - 110	P	
34	S	45	1	18250.00	ug/l	0.83	20000	91.3	90 - 110	S	
34	S	45	2	19160.00	ug/l	1.81	20000	95.8	90 - 110	S	
39	K	45	1	1250.00	ug/l	1.43	1250	100.0	90 - 110	K	
44	Ca	45	2	2544.00	ug/l	0.56	2500	101.8	90 - 110	Ca	
47	Ti	72	2	96.84	ug/l	1.71	100	96.8	90 - 110	Ti	
51	V	72	1	102.30	ug/l	0.25	100	102.3	90 - 110	V	
52	Cr	72	1	101.00	ug/l	1.09	100	101.0	90 - 110	Cr	
55	Mn	72	1	100.50	ug/l	0.88	100	100.5	90 - 110	Mn	
57	Fe	72	1	2569.00	ug/l	0.57	2500	102.8	90 - 110	Fe	
59	Co	72	1	101.00	ug/l	1.51	100	101.0	90 - 110	Co	
60	Ni	72	1	101.10	ug/l	0.62	100	101.1	90 - 110	Ni	
63	Cu	72	1	103.70	ug/l	0.05	100	103.7	90 - 110	Cu	
66	Zn	72	1	99.42	ug/l	0.39	100	99.4	90 - 110	Zn	
75	As	72	1	101.30	ug/l	0.96	100	101.3	90 - 110	As	
78	Se	72	1	99.50	ug/l	0.27	100	99.5	90 - 110	Se	
88	Sr	72	2	99.92	ug/l	1.66	100	99.9	90 - 110	Sr	
89	Y	72	1	104.10	ug/l	0.47	100	104.1	90 - 110	Y	
90	Zr	72	1	103.70	ug/l	1.48	100	103.7	90 - 110	Zr	
93	Nb	72	1	50.90	ug/l	0.91	50	101.8	90 - 110	Nb	
95	Mo	72	2	97.25	ug/l	1.74	100	97.3	90 - 110	Mo	
101	Ru	72	1	104.40	ug/l	1.28	100	104.4	90 - 110	Ru	
103	Rh	72	1	106.10	ug/l	0.96	100	106.1	90 - 110	Rh	
105	Pd	72	1	10.40	ug/l	1.55	10	104.0	90 - 110	Pd	
107	Ag	115	2	19.60	ug/l	0.42	20	98.0	90 - 110	Ag	
111	Cd	115	2	95.06	ug/l	0.25	100	95.1	90 - 110	Cd	
118	Sn	115	2	102.60	ug/l	1.02	100	102.6	90 - 110	Sn	
121	Sb	165	2	48.66	ug/l	0.82	50	97.3	90 - 110	Sb	
125	Te	165	1	97.61	ug/l	1.00	100	97.6	90 - 110	Te	
133	Cs	165	1	97.61	ug/l	0.83	100	97.6	90 - 110	Cs	
137	Ba	165	2	98.03	ug/l	1.80	100	98.0	90 - 110	Ba	
139	La	165	1	99.46	ug/l	0.38	100	99.5	90 - 110	La	
140	Ce	165	1	99.54	ug/l	0.55	100	99.5	90 - 110	Ce	
141	Pr	165	1	98.99	ug/l	0.74	100	99.0	90 - 110	Pr	
146	Nd	165	1	96.52	ug/l	0.93	100	96.5	90 - 110	Nd	
147	Sm	165	2	95.28	ug/l	1.22	100	95.3	90 - 110	Sm	
178	Hf	165	1	87.76	ug/l	0.81	100	87.8	90 - 110	Hf	Fail
181	Ta	165	1	96.81	ug/l	0.33	100	96.8	90 - 110	Ta	
182	W	197	1	94.18	ug/l	1.53	100	94.2	90 - 110	W	
195	Pt	197	1	9.59	ug/l	0.99	10	95.9	90 - 110	Pt	
205	Tl	197	2	96.71	ug/l	1.53	100	96.7	90 - 110	Tl	
206	(Pb)	197	2	97.91	ug/l	0.66	100	97.9	90 - 110	(Pb)	
207	(Pb)	197	2	95.93	ug/l	1.64	100	95.9	90 - 110	(Pb)	
208	Pb	197	2	97.86	ug/l	0.71	100	97.9	90 - 110	Pb	
209	Bi	197	1	101.20	ug/l	1.02	100	101.2	90 - 110	Bi	
232	Th	197	2	88.66	ug/l	2.10	100	88.7	90 - 110	Th	Fail
238	U	197	2	95.18	ug/l	1.78	100	95.2	90 - 110	U	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6	Li	2	5885768	0.77	6939269	84.8	70 - 140	Li	
45	Sc	1	391216	1.51	481965	81.2	70 - 140	Sc	
45	Sc	2	6431524	0.44	7351212	87.5	70 - 140	Sc	
72	Ge	1	241369	0.39	284165	84.9	70 - 140	Ge	
72	Ge	2	1330431	1.27	1476622	90.1	70 - 140	Ge	
115	In	2	8261333	0.53	8960157	92.2	70 - 140	In	
165	Ho	1	5822809	0.37	6560437	88.8	70 - 140	Ho	
165	Ho	2	11013527	1.36	11869600	92.8	70 - 140	Ho	
197	Au	1	1942258	1.07	2238589	86.8	70 - 140	Au	
197	Au	2	2551813	1.29	2712431	94.1	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D$

2 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

C:\ICPCHEM\1\DATA\041310A2.B\165_CCB.D\165_CCB.D#

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\041310A2.B\165_CCB.D\165_CCB.D#
Date Acquired: Apr 14 2010 08:49 am
Operator:
Sample Name: CCB
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\2010.M
Calibration File: C:\ICPCHEM\1\CALIB\2010.C
Last Cal Update: Apr 14 2010 01:13 am
Sample Type: 6-CCBDOD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Element	Flag
7 Li	6	2	0.114	ug/l	80.01	1.35	Li	
9 Be	6	2	0.016	ug/l	22.62	0.23	Be	
11 B	6	2	6.822	ug/l	1.89	14.94	B	
23 Na	45	1	-0.572	ug/l	16.53	10.60	Na	
24 Mg	45	1	1.148	ug/l	41.59	3.46	Mg	
27 Al	45	1	0.222	ug/l	302.16	8.94	Al	
28 Si	45	2	10.300	ug/l	4.74	35.60	Si	
29 Si	45	2	6.737	ug/l	11.54	35.60	Si	
31 P	45	1	3.099	ug/l	34.24	16.46	P	
34 S	45	1	-621.800	ug/l	4.02	666.00	S	
34 S	45	2	-817.200	ug/l	2.32	666.00	S	FAIL
39 K	45	1	-4.411	ug/l	7.97	16.66	K	
44 Ca	45	2	-1.378	ug/l	21.40	97.40	Ca	
47 Ti	72	2	0.514	ug/l	6.54	1.15	Ti	
51 V	72	1	-0.011	ug/l	11.50	4.74	V	
52 Cr	72	1	0.014	ug/l	39.81	6.52	Cr	
55 Mn	72	1	0.069	ug/l	37.26	0.47	Mn	
57 Fe	72	1	16.720	ug/l	26.80	40.70	Fe	
59 Co	72	1	0.016	ug/l	38.73	0.43	Co	
60 Ni	72	1	0.061	ug/l	21.41	0.46	Ni	
63 Cu	72	1	0.097	ug/l	10.67	0.19	Cu	
66 Zn	72	1	0.189	ug/l	12.12	7.48	Zn	
75 As	72	1	0.127	ug/l	15.74	1.89	As	
78 Se	72	1	0.360	ug/l	32.12	0.62	Se	
88 Sr	72	2	0.013	ug/l	22.52	0.23	Sr	
89 Y	72	1	0.016	ug/l	29.26	0.42	Y	
90 Zr	72	1	0.107	ug/l	8.24	0.50	Zr	
93 Nb	72	1	2.015	ug/l	15.34	4.46	Nb	
95 Mo	72	2	0.282	ug/l	16.64	0.43	Mo	
101 Ru	72	1	0.015	ug/l	86.42	2.00	Ru	
103 Rh	72	1	0.013	ug/l	36.09	1.63	Rh	
105 Pd	72	1	0.003	ug/l	71.81	0.08	Pd	
107 Ag	115	2	0.002	ug/l	124.45	0.08	Ag	
111 Cd	115	2	0.010	ug/l	72.12	0.11	Cd	
118 Sn	115	2	3.475	ug/l	3.73	0.30	Sn	FAIL
121 Sb	165	2	0.010	ug/l	141.14	2.24	Sb	
125 Te	165	1	0.128	ug/l	33.81	1.07	Te	
133 Cs	165	1	0.057	ug/l	3.44	0.11	Cs	
137 Ba	165	2	0.024	ug/l	27.83	0.39	Ba	
139 La	165	1	0.016	ug/l	39.36	0.10	La	
140 Ce	165	1	0.016	ug/l	30.37	1.77	Ce	
141 Pr	165	1	0.013	ug/l	35.08	0.08	Pr	
146 Nd	165	1	0.014	ug/l	29.50	0.21	Nd	
147 Sm	165	2	0.005	ug/l	95.31	0.65	Sm	
178 Hf	165	1	0.138	ug/l	1.93	2.26	Hf	
181 Ta	165	1	-0.014	ug/l	232.90	1.46	Ta	
182 W	197	1	2.278	ug/l	11.78	1.68	W	FAIL
195 Pt	197	1	0.001	ug/l	133.59	0.12	Pt	
205 Tl	197	2	1.238	ug/l	5.02	1.10	Tl	FAIL
206 (Pb)	197	2	0.594	ug/l	3.61	2.00	(Pb)	
207 (Pb)	197	2	0.581	ug/l	2.50	2.00	(Pb)	
208 Pb	197	2	0.586	ug/l	3.91	0.35	Pb	FAIL
209 Bi	197	1	0.025	ug/l	19.87	1.46	Bi	
232 Th	197	2	0.708	ug/l	4.69	1.10	Th	
238 U	197	2	0.041	ug/l	5.35	0.16	U	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Element	Flag
6 Li	2	5971826	0.78	6939269	86.1	70 - 140	Li	
45 Sc	1	392015	0.43	481965	81.3	70 - 140	Sc	
45 Sc	2	6423355	0.77	7351212	87.4	70 - 140	Sc	
72 Ge	1	231340	0.92	284165	81.4	70 - 140	Ge	
72 Ge	2	1284099	0.79	1476622	87.0	70 - 140	Ge	
115 In	2	8114673	0.86	8960157	90.6	70 - 140	In	
165 Ho	1	5716144	0.81	6560437	87.1	70 - 140	Ho	
165 Ho	2	10865688	0.82	11869600	91.5	70 - 140	Ho	
197 Au	1	1930569	0.69	2238589	86.2	70 - 140	Au	
197 Au	2	2562959	0.20	2712431	94.5	70 - 140	Au	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\041310A2.B\098CALB.D\098CALB.D#

5 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Analytical Runlog for Mercury Analysis

Run #: AA0415C

Instrument ID:

Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
1	S0	4/15/2010	17:39:13		1					
2	S0.2	4/15/2010	17:41:40		1					
3	S0.5	4/15/2010	17:44:26		1					
4	S1	4/15/2010	17:47:14		1					
5	S5	4/15/2010	17:49:42		1					
6	S10	4/15/2010	17:52:18		1					
7	ICV	4/15/2010	17:54:53	2.46	1	2.46	ppb	2.5	ppb	98.4%
8	CCB	4/15/2010	17:57:18	0.039	1	0.039	ppb	<0.2	ppb	✓
9	LXXJVB-165	4/15/2010	17:59:51	0.027	1	0.027	ppb			
10	LXXJVC	4/15/2010	18:02:28	0.843	1	0.843	ppb	1		84.3
11	LW0V4	4/15/2010	18:04:56	0.258	1	0.258	ppb			
12	LW0V4V	4/15/2010	18:07:20	0.136	5	0.68	ppb			
13	LW0V4S	4/15/2010	18:09:59	1.22	1	1.22	ppb	1		96.2
14	LW0V4D	4/15/2010	18:12:27	1.38	1	1.38	ppb	1		112.2
15	LW3E0	4/15/2010	18:15:13	0.197	1	0.197	ppb			
16	LXM95	4/15/2010	18:17:58	0.066	1	0.066	ppb			
17	CCV	4/15/2010	18:20:32	4.89	1	4.89	ppb	5	ppb	97.8%
18	CCB	4/15/2010	18:23:07	0.009	1	0.009	ppb	<0.2	ppb	✓
19	LXXJXB-167	4/15/2010	18:25:55	0.037	1	0.037	ppb			
20	LXXJXC	4/15/2010	18:28:32	3.84	10	38.4	ppb	44		87.19
21	LW5N3	4/15/2010	18:31:28	0.094	1	0.094	ppb			
22	LW5N3V	4/15/2010	18:34:36	0.052	5	0.26	ppb			
23	LW5N3S	4/15/2010	18:37:04	1.08	1	1.08	ppb	1		98.6
24	LW5N3D	4/15/2010	18:39:59	1.1	1	1.1	ppb	1		100.6
25	LW5PM	4/15/2010	18:42:24	0.116	1	0.116	ppb			
26	LW5PT	4/15/2010	18:44:51	0.097	1	0.097	ppb			
27	LW5PX	4/15/2010	18:47:18	0.137	1	0.137	ppb			
28	LW5P2	4/15/2010	18:49:46	0.15	1	0.15	ppb			
29	CCV	4/15/2010	18:52:15	4.86	1	4.86	ppb	5	ppb	97.2%
30	CCB	4/15/2010	18:54:42	0.007	1	0.007	ppb	<0.2	ppb	✓
31	LW5P3	4/15/2010	18:57:21	0.062	1	0.062	ppb			
32	LW5P5	4/15/2010	19:00:07	0.084	1	0.084	ppb			
33	LW5P7	4/15/2010	19:02:33	0.154	1	0.154	ppb			
34	LW5P9	4/15/2010	19:05:02	0.139	1	0.139	ppb			
35	LW5QC	4/15/2010	19:07:38	0.128	1	0.128	ppb			
36	LW7EL	4/15/2010	19:10:17	0.119	1	0.119	ppb			
37	LW7ER	4/15/2010	19:13:22	0.095	1	0.095	ppb			
38	LW7EW	4/15/2010	19:16:44	0.104	1	0.104	ppb			
39	LW7EX	4/15/2010	19:19:29	0.155	1	0.155	ppb			
40	LW7E1	4/15/2010	19:21:54	0.145	1	0.145	ppb			
41	CCV	4/15/2010	19:24:29	5.03	1	5.03	ppb	5	ppb	100.6%
42	CCB	4/15/2010	19:27:44	0.047	5	0.047	ppb	<0.2	ppb	✓
43	LW7E2	4/15/2010	19:31:18	0.153	1	0.153	ppb	1		
44	LW7E3	4/15/2010	19:34:25	0.18	1	0.18	ppb	1		
45	LXLT7	4/15/2010	19:37:06	0.173	1	0.173	ppb			
46	LXXJ2B-168	4/15/2010	19:40:06	0.022	1	0.022	ppb			
~~47~~	~~LXXJ2C~~	~~4/15/2010~~	~~19:42:47~~	~~2.12~~	~~10~~	~~21.2~~	~~ppb~~	~~44~~		

mispour CCD repour & rerun 4-16-2010

LOT # FOD0804950

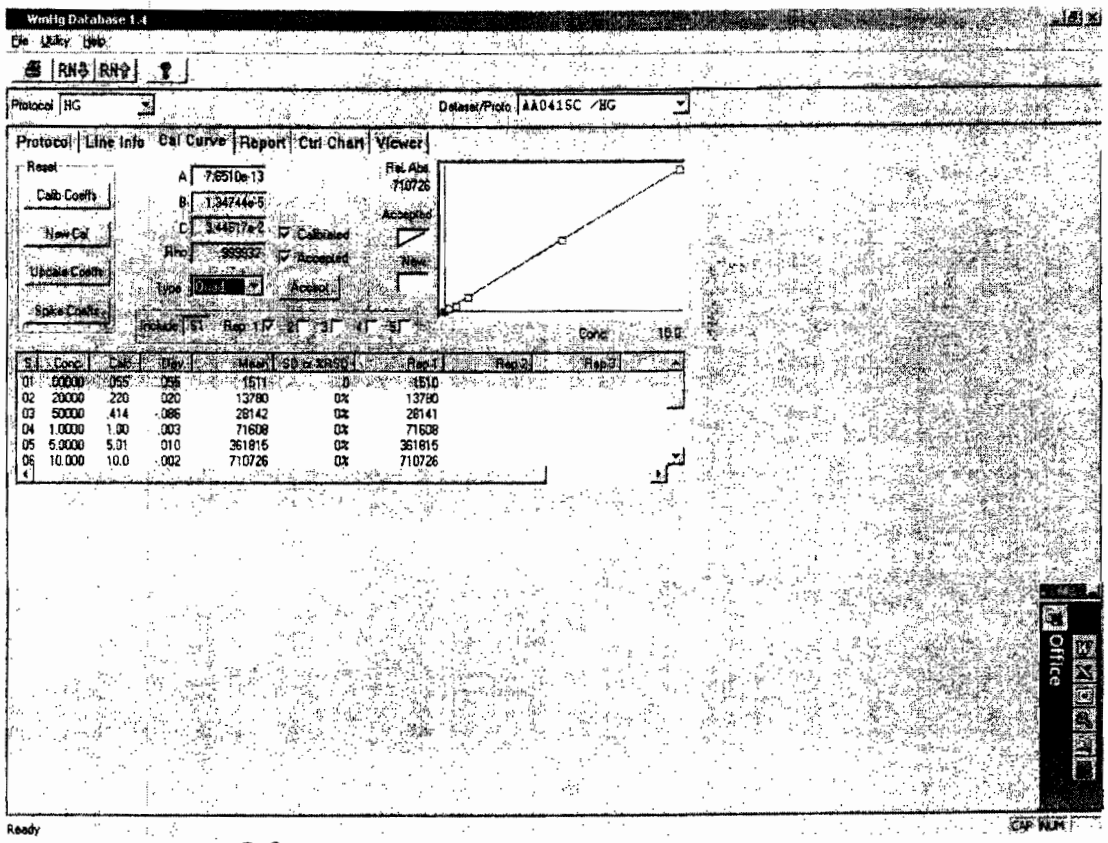
Analyst: [illegible]

Reviewed by: [illegible]

Analytical Runlog for Mercury Analysis										
Run #: AA0415C										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
48	LW5R0	4/15/2010	19:45:15	1.46	1	1.46	ppb			
49	LW5R2	4/15/2010	19:47:46	0.406	1	0.406	ppb			
50	LW5R6	4/15/2010	19:50:25	0.096	1	0.096	ppb			
51	LW5R7	4/15/2010	19:52:51	0.084	1	0.084	ppb			
52	LXKAQ	4/15/2010	19:55:46	0.099	1	0.099	ppb			
53	CCV	4/15/2010	19:58:13	4.88	1	4.88	ppb	5	ppb	97.6%
54	CCB	4/15/2010	20:00:47	-0.004	1	-0.004	ppb	<0.2	ppb	✓
55	LXKAQV	4/15/2010	20:04:24	0.028	1	0.028	ppb			
56	LXKAQS	4/15/2010	20:06:50	1.08	1	1.08	ppb	1		98.1
57	LXKAQD	4/15/2010	20:09:48	1.09	1	1.09	ppb	1		99.1
58	LXKA7	4/15/2010	20:12:15	0.098	1	0.098	ppb			
59	LXKA9	4/15/2010	20:14:51	0.301	1	0.301	ppb			
60	LXKCC	4/15/2010	20:17:15	0.104	1	0.104	ppb			
61	LXKCD	4/15/2010	20:19:39	0.065	1	0.065	ppb			
62	LXKCF	4/15/2010	20:22:04	0.193	1	0.193	ppb			
63	LXKCM	4/15/2010	20:24:59	0.093	1	0.093	ppb			
64	LXKCN	4/15/2010	20:27:28	0.079	1	0.079	ppb			
65	CCV	4/15/2010	20:29:54	4.8	1	4.8	ppb	5	ppb	96.0%
66	CCB	4/15/2010	20:32:30	0.051	1	0.051	ppb	<0.2	ppb	✓
~~67~~	~~LXKCQ~~	~~4/15/2010~~	~~20:34:55~~	~~0.088~~	~~1~~	~~0.088~~	~~ppb~~			
68	LXXKCB-170	4/15/2010	20:38:06	0.055	1	0.055	ppb			
69	LXXKCC	4/15/2010	20:40:32	4.54	10	45.4	ppb			
70	LXAHW	4/15/2010	20:43:19	0.05	1	0.05	ppb			
71	LXAHWV	4/15/2010	20:47:44	0.036	5	0.18	ppb			
~~72~~	~~LXAHWS~~	~~4/15/2010~~	~~20:50:30~~	~~0.064~~	~~1~~	~~0.064~~	~~ppb~~			
73	CCV	4/16/2010	12:23:28	4.32	1	4.32	ppb	5	ppb	86.4%
74	CCB	4/16/2010	12:27:15	0.033	1	0.033	ppb	<0.2	ppb	✓
75	LXKCQ	4/16/2010	12:29:38	0.076	1	0.076	ppb			
76	LXXKCB-170	4/16/2010	12:32:12	0.04	1	0.04	ppb			
77	LXXKCC	4/16/2010	12:35:51	3.86	10	38.6	ppb	44		87.6
78	LXAHW	4/16/2010	12:38:20	0.039	1	0.039	ppb			
79	LXAHWV	4/16/2010	12:40:45	0.036	5	0.18	ppb			
80	LXAHWX	4/16/2010	12:43:09	0.063	1	0.063	ppb			
81	LXAHWS	4/16/2010	12:45:43	0.987	1	0.987	ppb	1		98.7
82	LXAH8	4/16/2010	12:48:22	0.092	1	0.092	ppb			
83	LXAJJ	4/16/2010	12:50:47	0.048	1	0.048	ppb			
84	LXAJL	4/16/2010	12:53:24	0.057	1	0.057	ppb			
85	CCV	4/16/2010	12:56:00	4.63	1	4.63	ppb	5	ppb	92.6%
86	CCB	4/16/2010	12:58:25	0.021	1	0.021	ppb	<0.2	ppb	✓
87	LXAJP	4/16/2010	13:00:53	0.063	1	0.063	ppb			
88	LXLR4	4/16/2010	13:03:39	0.226	1	0.226	ppb			
89	LXNKX	4/16/2010	13:06:05	0.423	1	0.423	ppb			
90	LXNK6	4/16/2010	13:08:35	0.161	1	0.161	ppb			
91	LXNK8	4/16/2010	13:11:11	0.111	1	0.111	ppb			
92	LXNLC	4/16/2010	13:13:58	0.097	1	0.097	ppb			
93	LXNLE	4/16/2010	13:17:08	0.125	1	0.125	ppb			
94	LXNLH	4/16/2010	13:19:32	0.1	1	0.1	ppb			

Instrument stopped rerun ccv/ice and previous 6 samples
LTD 4-16-2010

Analytical Runlog for Mercury Analysis										
Run #: AA0415C										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
95	LXNLK	4/16/2010	13:23:46	0.083	1	0.083	ppb			
96	LX1Q6B-246	4/16/2010	13:26:20	0.046	1	0.046	ppb			
97	CCV	4/16/2010	13:29:20	4.6	1	4.6	ppb	5	ppb	92.0%
98	CCB	4/16/2010	13:32:05	0.014	1	0.014	ppb	<0.2	ppb	✓
99	LX1Q6C	4/16/2010	13:34:50	3.94	10	39.4	ppb	44		89.5
100	LW48H	4/16/2010	13:37:14	0.149	1	0.149	ppb			
101	LW48HV	4/16/2010	13:40:53	0.049	5	0.245	ppb			
102	LW48HX	4/16/2010	13:44:22	0.156	1	0.156	ppb			
103	LW48HS	4/16/2010	13:46:47	1.11	1	1.11	ppb	1		96.1
104	LW48P	4/16/2010	13:49:36	0.217	1	0.217	ppb			
105	LW48R	4/16/2010	13:52:00	0.218	1	0.218	ppb			
106	LW48T	4/16/2010	13:54:35	0.124	1	0.124	ppb			
107	LW48W	4/16/2010	13:57:00	0.149	1	0.149	ppb			
108	LW480	4/16/2010	13:59:24	0.148	1	0.148	ppb			
109	CCV	4/16/2010	14:01:48	4.56	1	4.56	ppb	5	ppb	91.2%
110	CCB	4/16/2010	14:04:15	0.012	1	0.012	ppb	<0.2	ppb	✓
111	LW490	4/16/2010	14:06:59	0.11	1	0.11	ppb			
112	LW5AX	4/16/2010	14:09:27	0.295	1	0.295	ppb			
113	LW5A1	4/16/2010	14:12:23	0.265	1	0.265	ppb			
114	LXC9E	4/16/2010	14:14:47	0.314	1	0.314	ppb			
115	LXC95	4/16/2010	14:17:23	0.297	1	0.297	ppb			
116	LXDCH	4/16/2010	14:20:17	0.114	1	0.114	ppb			
117	LXDCV	4/16/2010	14:23:16	0.187	1	0.187	ppb			
118	LXDC2	4/16/2010	14:25:55	0.127	1	0.127	ppb			
119	LXDC5	4/16/2010	14:28:29	0.066	1	0.066	ppb			
120	LXDDA	4/16/2010	14:31:12	0.171	1	0.171	ppb			
121	CCV	4/16/2010	14:33:47	4.42	1	4.42	ppb	5	ppb	88.4%
122	CCB	4/16/2010	14:36:20	0.026	1	0.026	ppb	<0.2	ppb	✓
123	LXDE6	4/16/2010	14:38:44	0.193	1	0.193	ppb			
124	LXDFN	4/16/2010	14:41:12	0.342	1	0.342	ppb			
125	LXDFR	4/16/2010	14:43:37	0.422	1	0.422	ppb			
126	CCV	4/16/2010	14:46:17	4.53	1	4.53	ppb	5	ppb	90.6%
127	CCB	4/16/2010	14:49:09	0.027	1	0.027	ppb	<0.2	ppb	✓



Rho 0.999932

LDuty
7471B 04-15-10
Hg 041510

Folder: AA0415C Page 1
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       17:39:13 15 Apr 10   HG

Hg     .000    ppb      1510
                                                                        =
*** Standard: 2 Rep: 1              Seq:  2       17:41:40 15 Apr 10   HG

Hg     .200    ppb      13780
                                                                        =
*** Standard: 3 Rep: 1              Seq:  3       17:44:26 15 Apr 10   HG

Hg     .500    ppb      28141
                                                                        =
*** Standard: 4 Rep: 1              Seq:  4       17:47:14 15 Apr 10   HG

Hg     1.00    ppb      71608
                                                                        =
*** Standard: 5 Rep: 1              Seq:  5       17:49:42 15 Apr 10   HG

Hg     5.00    ppb      361815
                                                                        =
*** Standard: 6 Rep: 1              Seq:  6       17:52:18 15 Apr 10   HG

Hg     10.0    ppb      710726
                                                                        =
*** Check Standard: 4  Ck4ICV       Seq:  7       17:54:53 15 Apr 10   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           98.6     2.46   2.50  ppb         .000
                                                                        =
*** Check Standard: 1  Ck1CCB       Seq:  8       17:57:18 15 Apr 10   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg           .039     .200    ppb        .000
                                                                        =
*** Sample ID: LXXJVB-165           Seq:  9       17:59:51 15 Apr 10   HG

Hg     .027    ppb       .000      .027
                                                                        =
=============================================================================
*** Sample ID: LXXJVC                Seq:  10      18:02:28 15 Apr 10   HG

Hg     .843    ppb       .000      .843
                                                                        =
=============================================================================
*** Sample ID: LW0V4                 Seq:  11      18:04:56 15 Apr 10   HG

Hg     .258    ppb       .000      .258
                                                                        =
=============================================================================
```

LQuty
7471B 04-15-10
Hg 041510

Folder: AA0415C Page 2
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW0V4V                Seq:  12     18:07:20 15 Apr 10   HG
                          5X
Hg    .136    ppb       .000      .136
                                                                          =
=============================================================================
*** Sample ID: LW0V4S                Seq:  13     18:09:59 15 Apr 10   HG

Hg    1.22    ppb       .000      1.22
                                                                          =
=============================================================================
*** Sample ID: LW0V4D                Seq:  14     18:12:27 15 Apr 10   HG

Hg    1.38    ppb       .000      1.38
                                                                          =
=============================================================================
*** Sample ID: LW3E0                 Seq:  15     18:15:13 15 Apr 10   HG

Hg    .197    ppb       .000      .197
                                                                          =
=============================================================================
*** Sample ID: LXM95                 Seq:  16     18:17:58 15 Apr 10   HG

Hg    .066    ppb       .000      .066
                                                                          =
*** Check Standard: 2  Ck2CCV        Seq:  17     18:20:32 15 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.9     4.89    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB        Seq:  18     18:23:07 15 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .009     .200     ppb        .000
                                                                          =
*** Sample ID: LXXJXB-167            Seq:  19     18:25:55 15 Apr 10   HG

Hg    .037    ppb       .000      .037
                                                                          =
=============================================================================
*** Sample ID: LXXJXC                Seq:  20     18:28:32 15 Apr 10   HG
                         10X
Hg    3.84    ppb       .000      3.84
                                                                          =
=============================================================================
*** Sample ID: LW5N3                 Seq:  21     18:31:28 15 Apr 10   HG

Hg    .094    ppb       .000      .094
                                                                          =
=============================================================================
```

Folder: AA0415C
Protocol: HG
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LW5N3V Seq: 22 18:34:36 15 Apr 10 HG

			5X	
Hg	.052	ppb	.000	.052

*** Sample ID: LW5N3S Seq: 23 18:37:04 15 Apr 10 HG

Hg	1.08	ppb	.000	1.08

*** Sample ID: LW5N3D Seq: 24 18:39:59 15 Apr 10 HG

Hg	1.10	ppb	.000	1.10

*** Sample ID: LW5PM Seq: 25 18:42:24 15 Apr 10 HG

Hg	.116	ppb	.000	.116

*** Sample ID: LW5PT Seq: 26 18:44:51 15 Apr 10 HG

Hg	.097	ppb	.000	.097

*** Sample ID: LW5PX Seq: 27 18:47:18 15 Apr 10 HG

Hg	.137	ppb	.000	.137

*** Sample ID: LW5P2 Seq: 28 18:49:46 15 Apr 10 HG

Hg	.150	ppb	.000	.150

*** Check Standard: 2 Ck2CCV Seq: 29 18:52:15 15 Apr 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.3	4.86	5.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 30 18:54:42 15 Apr 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.007	.200	ppb	.000

*** Sample ID: LW5P3 Seq: 31 18:57:21 15 Apr 10 HG

Hg	.062	ppb	.000	.062

Folder: AA0415C
Protocol: HG
POST-RUN REPORT


```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW5P5                  Seq:  32     19:00:07 15 Apr 10   HG

Hg    .084    ppb       .000      .084
                                                                          =
=============================================================================
*** Sample ID: LW5P7                  Seq:  33     19:02:33 15 Apr 10   HG

Hg    .154    ppb       .000      .154
                                                                          =
=============================================================================
*** Sample ID: LW5P9                  Seq:  34     19:05:02 15 Apr 10   HG

Hg    .139    ppb       .000      .139
                                                                          =
=============================================================================
*** Sample ID: LW5QC                  Seq:  35     19:07:38 15 Apr 10   HG

Hg    .128    ppb       .000      .128
                                                                          =
=============================================================================
*** Sample ID: LW7EL                  Seq:  36     19:10:17 15 Apr 10   HG

Hg    .119    ppb       .000      .119
                                                                          =
=============================================================================
*** Sample ID: LW7ER                  Seq:  37     19:13:22 15 Apr 10   HG

Hg    .095    ppb       .000      .095
                                                                          =
=============================================================================
*** Sample ID: LW7EW                  Seq:  38     19:16:44 15 Apr 10   HG

Hg    .104    ppb       .000      .104
                                                                          =
=============================================================================
*** Sample ID: LW7EX                  Seq:  39     19:19:29 15 Apr 10   HG

Hg    .155    ppb       .000      .155
                                                                          =
=============================================================================
*** Sample ID: LW7E1                  Seq:  40     19:21:54 15 Apr 10   HG

Hg    .145    ppb       .000      .145
                                                                          =
*** Check Standard: 2  Ck2CCV         Seq:  41     19:24:29 15 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.03    5.00  ppb         .000
                                                                          =
```

Folder: AA0415C Page 5
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 1  Ck1CCB       Seq:  42      19:27:44 15 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .047     .200     ppb        .000
                                                                          =
*** Sample ID: LW7E2                 Seq:  43      19:31:18 15 Apr 10   HG

Hg    .153    ppb       .000      .153
                                                                          =
==============================================================================
*** Sample ID: LW7E3                 Seq:  44      19:34:25 15 Apr 10   HG

Hg    .180    ppb       .000      .180
                                                                          =
==============================================================================
*** Sample ID: LXLT7                 Seq:  45      19:37:06 15 Apr 10   HG

Hg    .173    ppb       .000      .173
                                                                          =
==============================================================================
*** Sample ID: LXXJ2B-168            Seq:  46      19:40:06 15 Apr 10   HG

Hg    .022    ppb       .000      .022
                                                                          =
==============================================================================
*** Sample ID: LXXJ2C                Seq:  47      19:42:47 15 Apr 10   HG
                          10X
Hg    2.12    ppb       .000      2.12
                                                                          =
==============================================================================
*** Sample ID: LW5R0                 Seq:  48      19:45:15 15 Apr 10   HG

Hg    1.46    ppb       .000      1.46
                                                                          =
==============================================================================
*** Sample ID: LW5R2                 Seq:  49      19:47:46 15 Apr 10   HG

Hg    .406    ppb       .000      .406
                                                                          =
==============================================================================
*** Sample ID: LW5R6                 Seq:  50      19:50:25 15 Apr 10   HG

Hg    .096    ppb       .000      .096
                                                                          =
==============================================================================
*** Sample ID: LW5R7                 Seq:  51      19:52:51 15 Apr 10   HG

Hg    .084    ppb       .000      .084
                                                                          =
==============================================================================
```

Folder: AA0415C Page 6
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXKAQ                  Seq:  52     19:55:46 15 Apr 10   HG

Hg     .099    ppb       .000      .099
                                                                          =
*** Check Standard: 2  Ck2CCV         Seq:  53     19:58:13 15 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.6    4.88    5.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB         Seq:  54     20:00:47 15 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.004     .200     ppb        .000
                                                                          =
*** Sample ID: LXKAQV                 Seq:  55     20:04:24 15 Apr 10   HG
                           5X
Hg     .028    ppb       .000      .028
                                                                          =
===========================================================================
*** Sample ID: LXKAQS                 Seq:  56     20:06:50 15 Apr 10   HG

Hg     1.08    ppb       .000      1.08
                                                                          =
===========================================================================
*** Sample ID: LXKAQD                 Seq:  57     20:09:48 15 Apr 10   HG

Hg     1.09    ppb       .000      1.09
                                                                          =
===========================================================================
*** Sample ID: LXKA7                  Seq:  58     20:12:15 15 Apr 10   HG

Hg     .098    ppb       .000      .098
                                                                          =
===========================================================================
*** Sample ID: LXKA9                  Seq:  59     20:14:51 15 Apr 10   HG

Hg     .301    ppb       .000      .301
                                                                          =
===========================================================================
*** Sample ID: LXKCC                  Seq:  60     20:17:15 15 Apr 10   HG

Hg     .104    ppb       .000      .104
                                                                          =
===========================================================================
*** Sample ID: LXKCD                  Seq:  61     20:19:39 15 Apr 10   HG

Hg     .065    ppb       .000      .065
                                                                          =
===========================================================================
```

Folder: AA0415C Page 7
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXKCF                  Seq:  62     20:22:04 15 Apr 10   HG

Hg    .193    ppb       .000      .193
                                                                          *
=============================================================================
*** Sample ID: LXKCM                  Seq:  63     20:24:59 15 Apr 10   HG

Hg    .093    ppb       .000      .093
                                                                          *
=============================================================================
*** Sample ID: LXKCN                  Seq:  64     20:27:28 15 Apr 10   HG

Hg    .079    ppb       .000      .079
                                                                          *
*** Check Standard: 2  Ck2CCV         Seq:  65     20:29:54 15 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.0     4.80   5.00   ppb         .000
                                                                          *
*** Check Standard: 1  Ck1CCB         Seq:  66     20:32:30 15 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .051     .200     ppb        .000
                                                                          *
*** Sample ID: LXKCQ                  Seq:  67     20:34:55 15 Apr 10   HG

Hg    .088    ppb       .000      .088
                                                                          *
=============================================================================
*** Sample ID: LXXKCB-170             Seq:  68     20:38:06 15 Apr 10   HG

Hg    .055    ppb       .000      .055
                                                                          *
=============================================================================
*** Sample ID: LXXKCC                 Seq:  69     20:40:32 15 Apr 10   HG
                          10X
Hg    4.54    ppb       .000      4.54
                                                                          *
=============================================================================
*** Sample ID: LXAHW                  Seq:  70     20:43:19 15 Apr 10   HG

Hg    .050    ppb       .000      .050
                                                                          *
=============================================================================
*** Sample ID: LXAHWV                 Seq:  71     20:47:44 15 Apr 10   HG
                          5X
Hg    .036    ppb       .000      .036
                                                                          *
=============================================================================
```

Folder: AA0415C Page 8
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXAHWS                Seq:  72     20:50:30 15 Apr 10   HG

Hg    .064    ppb       .000      .064
                                                                          =
*** Check Standard: 2  Ck2CCV        Seq:  73     12:23:28 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          86.4     4.32    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB        Seq:  74     12:27:15 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .033     .200     ppb        .000
                                                                          =
*** Sample ID: LXKCQ                 Seq:  75     12:29:38 16 Apr 10   HG

Hg    .076    ppb       .000      .076
                                                                          =
===========================================================================
*** Sample ID: LXXKCB-170            Seq:  76     12:32:12 16 Apr 10   HG

Hg    .040    ppb       .000      .040
                                                                          =
===========================================================================
*** Sample ID: LXXKCC                Seq:  77     12:35:51 16 Apr 10   HG
                          10X
Hg    3.86    ppb       .000      3.86
                                                                          =
===========================================================================
*** Sample ID: LXAHW                 Seq:  78     12:38:20 16 Apr 10   HG

Hg    .039    ppb       .000      .039
                                                                          =
===========================================================================
*** Sample ID: LXAHWV                Seq:  79     12:40:45 16 Apr 10   HG
                           5X
Hg    .036    ppb       .000      .036
                                                                          =
===========================================================================
*** Sample ID: LXAHWX                Seq:  80     12:43:09 16 Apr 10   HG

Hg    .063    ppb       .000      .063
                                                                          =
===========================================================================
*** Sample ID: LXAHWS                Seq:  81     12:45:43 16 Apr 10   HG

Hg    .987    ppb       .000      .987
                                                                          =
===========================================================================
```

Folder: AA0415C Page 9
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXAH8                  Seq:  82     12:48:22 16 Apr 10   HG

Hg    .092    ppb       .000      .092
                                                                          =
=============================================================================
*** Sample ID: LXAJJ                  Seq:  83     12:50:47 16 Apr 10   HG

Hg    .048    ppb       .000      .048
                                                                          =
=============================================================================
*** Sample ID: LXAJL                  Seq:  84     12:53:24 16 Apr 10   HG

Hg    .057    ppb       .000      .057
                                                                          =
*** Check Standard: 2  Ck2CCV         Seq:  85     12:56:00 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          92.6     4.63    5.00   ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB         Seq:  86     12:58:25 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .021     .200     ppb        .000
                                                                          =
*** Sample ID: LXAJP                  Seq:  87     13:00:53 16 Apr 10   HG

Hg    .063    ppb       .000      .063
                                                                          =
=============================================================================
*** Sample ID: LXLR4                  Seq:  88     13:03:39 16 Apr 10   HG

Hg    .226    ppb       .000      .226
                                                                          =
=============================================================================
*** Sample ID: LXNKX                  Seq:  89     13:06:05 16 Apr 10   HG

Hg    .423    ppb       .000      .423
                                                                          =
=============================================================================
*** Sample ID: LXNK6                  Seq:  90     13:08:35 16 Apr 10   HG

Hg    .161    ppb       .000      .161
                                                                          =
=============================================================================
*** Sample ID: LXNK8                  Seq:  91     13:11:11 16 Apr 10   HG

Hg    .111    ppb       .000      .111
                                                                          =
=============================================================================
```

Folder: AA0415C Page 10
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXNLC                  Seq:  92     13:13:58 16 Apr 10   HG

Hg    .097    ppb       .000      .097
                                                                          =
==============================================================================
*** Sample ID: LXNLE                  Seq:  93     13:17:08 16 Apr 10   HG

Hg    .125    ppb       .000      .125
                                                                          =
==============================================================================
*** Sample ID: LXNLH                  Seq:  94     13:19:32 16 Apr 10   HG

Hg    .100    ppb       .000      .100
                                                                          =
==============================================================================
*** Sample ID: LXNLK                  Seq:  95     13:23:46 16 Apr 10   HG

Hg    .083    ppb       .000      .083
                                                                          =
==============================================================================
*** Sample ID: LX1Q6B-246             Seq:  96     13:26:20 16 Apr 10   HG

Hg    .046    ppb       .000      .046
                                                                          =
*** Check Standard: 2  Ck2CCV         Seq:  97     13:29:20 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          92.1     4.60    5.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB         Seq:  98     13:32:05 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .014     .200     ppb        .000
                                                                          =
*** Sample ID: LX1Q6C                 Seq:  99     13:34:50 16 Apr 10   HG
                          10X
Hg    3.94    ppb       .000      3.94
                                                                          =
==============================================================================
*** Sample ID: LW48H                  Seq:  100    13:37:14 16 Apr 10   HG

Hg    .149    ppb       .000      .149
                                                                          =
==============================================================================
*** Sample ID: LW48HV                 Seq:  101    13:40:53 16 Apr 10   HG
                          5X
Hg    .049    ppb       .000      .049
                                                                          =
==============================================================================
```

Folder: AA0415C
Protocol: HG
POST-RUN REPORT


```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW48HX                Seq:  102    13:44:22 16 Apr 10   HG

Hg    .156    ppb       .000      .156
                                                                          =
==============================================================================
*** Sample ID: LW48HS                Seq:  103    13:46:47 16 Apr 10   HG

Hg    1.11    ppb       .000      1.11
                                                                          =
==============================================================================
*** Sample ID: LW48P                 Seq:  104    13:49:36 16 Apr 10   HG

Hg    .217    ppb       .000      .217
                                                                          =
==============================================================================
*** Sample ID: LW48R                 Seq:  105    13:52:00 16 Apr 10   HG

Hg    .218    ppb       .000      .218
                                                                          =
==============================================================================
*** Sample ID: LW48T                 Seq:  106    13:54:35 16 Apr 10   HG

Hg    .124    ppb       .000      .124
                                                                          =
==============================================================================
*** Sample ID: LW48W                 Seq:  107    13:57:00 16 Apr 10   HG

Hg    .149    ppb       .000      .149
                                                                          =
==============================================================================
*** Sample ID: LW480                 Seq:  108    13:59:24 16 Apr 10   HG

Hg    .148    ppb       .000      .148
                                                                          =
*** Check Standard: 2  Ck2CCV        Seq:  109    14:01:48 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          91.3     4.56    5.00   ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB        Seq:  110    14:04:15 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .012     .200     ppb        .000
                                                                          =
*** Sample ID: LW490                 Seq:  111    14:06:59 16 Apr 10   HG

Hg    .110    ppb       .000      .110
                                                                          =
==============================================================================
```

Folder: AA0415C
Protocol: HG
POST-RUN REPORT


```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW5AX                  Seq:  112    14:09:27 16 Apr 10   HG

Hg    .295    ppb       .000      .295
                                                                          =
=============================================================================
*** Sample ID: LW5A1                  Seq:  113    14:12:23 16 Apr 10   HG

Hg    .265    ppb       .000      .265
                                                                          =
=============================================================================
*** Sample ID: LXC9E                  Seq:  114    14:14:47 16 Apr 10   HG

Hg    .314    ppb       .000      .314
                                                                          =
=============================================================================
*** Sample ID: LXC95                  Seq:  115    14:17:23 16 Apr 10   HG

Hg    .297    ppb       .000      .297
                                                                          =
=============================================================================
*** Sample ID: LXDCH                  Seq:  116    14:20:17 16 Apr 10   HG

Hg    .114    ppb       .000      .114
                                                                          =
=============================================================================
*** Sample ID: LXDCV                  Seq:  117    14:23:16 16 Apr 10   HG

Hg    .187    ppb       .000      .187
                                                                          =
=============================================================================
*** Sample ID: LXDC2                  Seq:  118    14:25:55 16 Apr 10   HG

Hg    .127    ppb       .000      .127
                                                                          =
=============================================================================
*** Sample ID: LXDC5                  Seq:  119    14:28:29 16 Apr 10   HG

Hg    .066    ppb       .000      .066
                                                                          =
=============================================================================
*** Sample ID: LXDDA                  Seq:  120    14:31:12 16 Apr 10   HG

Hg    .171    ppb       .000      .171
                                                                          =
*** Check Standard: 2  Ck2CCV         Seq:  121    14:33:47 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units     SD/RSD
Hg          88.4    4.42    5.00  ppb        .000
                                                                          =
```

Folder: AA0415C Page 13
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 1  Ck1CCB       Seq:  122     14:36:20 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .026     .200     ppb        .000
                                                                          =
*** Sample ID: LXDE6                 Seq:  123     14:38:44 16 Apr 10   HG

Hg    .193    ppb       .000       .193
                                                                          =
=============================================================================
*** Sample ID: LXDFN                 Seq:  124     14:41:12 16 Apr 10   HG

Hg    .342    ppb       .000       .342
                                                                          =
=============================================================================
*** Sample ID: LXDFR                 Seq:  125     14:43:37 16 Apr 10   HG

Hg    .422    ppb       .000       .422
                                                                          =
*** Check Standard: 2  Ck2CCV       Seq:  126     14:46:17 16 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.6     4.53    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB       Seq:  127     14:49:09 16 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .027     .200     ppb        .000
                                                                          =
```

METALS MISCELLANEOUS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Metals Prep Report for Batch # 0099059

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Prep Method: SW-846 6020, Soil 2% **SOP Number:** ST-IP-0013

Extraction Code: GK **Extraction:** TOTAL **Matrix:** SOLID **Prep Date:** 4/9/2010

Standard Log Ref#: MET-04/10-SOIL

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location
F0C250548-001	LW48H	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-001S	LW48HS	0.50 g	50 mL	☐		1-34
F0C250548-001X	LW48H	0.50 g	50 mL	☐		1-34
F0C250548-002	LW48P	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-003	LW48R	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-004	LW48T	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-005	LW48W	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-006	LW480	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250548-009	LW490	0.50 g	50 mL	☐	04/20/2010	1-34
F0C250555-001	LW5AX	0.50 g	50 mL	☐	04/20/2010	RAD,1-35
F0C250555-002	LW5A1	0.50 g	50 mL	☐	04/20/2010	RAD,1-35
F0D080495-001	LXNKX	0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D080495-002	LXNK6	0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D080495-002S	LXNK6S	0.50 g	50 mL	☐		2-57/59
F0D080495-003	LXNK8	0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D080495-004	LXNLC	0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D080495-005	LXNLE	0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D080495-006	LXNLH	0.50 g	50 mL	☐	04/16/2010	2-57/59

Target List: AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SE, TL, U, V, ZN

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

F0D080495-007	LXNLK		0.50 g	50 mL	☐	04/16/2010	2-57/59
F0D090000-059B	LXPT9B		0.50 g	50 mL	☐		
F0D090000-059C	LXPT9C		0.50 g	50 mL	☐		

Comments: spk with - Fe

Chemical Lot Information

Chemical	Lot Number
Hydrochloric Acid	H42A18
Hydrogen Peroxide	H47J00
Nitric Acid	H51022

Custody Information

Relinquished By: CS

Review/Received By: KR

Date of Transfer: 4-9-10

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mercury Prep Report for Batch # 0104170

TestAmerica - St. Louis
13715 Rider Trail North
Earth City, MO 63045

Prep Method: SW-846 7471A **SOP Number:** ST-MT-0007

Extraction Code: 70 **Extraction:** TOTAL **Matrix:** SOLID **Prep Date:** 4/15/2010

Time In: 4:45 **Temp In:** 98 C

Time Out: 5:15 **Temp Out:** 98 C **Standard Log Ref#:** hg041510

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location
F0C300511-002	LXAHW	0.60 g	100 mL	☐	04/16/2010	1-92
F0C300511-002S	LXAHWS	0.60 g	100 mL	☐		1-92
F0C300511-002X	LXAHWX	0.60 g	100 mL	☐		1-92
F0C300511-003	LXAH8	0.60 g	100 mL	☐	04/16/2010	1-92
F0C300511-004	LXAJJ	0.60 g	100 mL	☐	04/16/2010	1-92
F0C300511-005	LXAJL	0.60 g	100 mL	☐	04/16/2010	1-92
F0C300511-006	LXAJP	0.60 g	100 mL	☐	04/16/2010	1-92
F0D070439-002	LXLR4	0.60 g	100 mL	☐	04/16/2010	VS7,2-37,RAD
F0D080495-001	LXNKX	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-002	LXNK6	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-003	LXNK8	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-004	LXNLC	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-005	LXNLE	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-006	LXNLH	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D080495-007	LXNLK	0.60 g	100 mL	☐	04/16/2010	2-57/59
F0D140000-170B	LXXKCB	0.60 g	100 mL	☐		
F0D140000-170C	LXXKCC	0.60 g	100 mL	☐		

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

LOT # F0D080495

Comments:

Custody Information	
Relinquished By:	KD
Review/Received By:	KD
Date of Transfer:	4/15/10

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

METALS SAMPLE AND QC SUMMARY RESULTS

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNKX **Client ID:** RE12-10-15444

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.078	0.60	0.49	J	1	ICPMS	4/15/2010	18:29

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK6 **Client ID:** RE12-10-15443

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.077	0.59	0.27	J	1	ICPMS	4/15/2010	18:45

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNK8 **Client ID:** RE12-10-15442

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.36

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.076	0.58	0.29	J	1	ICPMS	4/15/2010	18:59

Comments: Lot #: F0D080495 Sample #: 3

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLC **Client ID:** RE12-10-15448

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 14.85

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.076	0.59	0.22	J	1	ICPMS	4/15/2010	19:02

Comments: Lot #: F0D080495 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLE **Client ID:** RE12-10-15446

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 6.15

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.069	0.53	0.25	J	1	ICPMS	4/15/2010	19:05

Comments: Lot #: F0D080495 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLH **Client ID:** RE12-10-15445

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 13.98

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.076	0.58	0.21	J	1	ICPMS	4/15/2010	19:09

Comments: Lot #: F0D080495 Sample #: 6

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLK **Client ID:** RE12-10-15447

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.31

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.067	0.52	0.094	J	1	ICPMS	4/15/2010	19:12

Comments: Lot #: F0D080495 Sample #: 7

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form I Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041510M2.REP

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/15/2010 5:13 PM														
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Antimony	123	500.0	537.52		107.5												

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041510M2.REP

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/15/2010 5:33 PM			CCV 4/15/2010 6:13 PM			CCV 4/15/2010 6:52 PM			CCV 4/15/2010 7:31 PM					
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Antimony	123	500.0	530.79		**106.2**	537.23		**107.4**	546.52		**109.3**	526.71		**105.3**			

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041510M2.REP

Acceptable Range: 70% - 130%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CRI 4/15/2010 5:20 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Antimony	123	5.0	5.44		**108.9**												

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041510M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/15/2010 5:17 PM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	123	2.5	0.32	U								

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041510M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/15/2010 5:37 PM		CCB 4/15/2010 6:16 PM		CCB 4/15/2010 6:55 PM		CCB 4/15/2010 7:35 PM			
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	123	2.5	1.3	J	1.7	J	1.5	J	1.4	J		

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Blank Results **SDG:** Test

Lab Sample ID: LXWVVB

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	123	0.065	0.50	0.095	J	1	ICPMS	4/15/2010	18:23

Comments: Lot #: F0D080495

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Interference Check Standard A

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041510M2.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	Rpting Limit	True Conc	ICSA 4/15/2010 5:24 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	123	2.5		0.077	U								

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Interference Check Standard AB

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041510M2.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 4/15/2010 5:28 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Antimony	123	50.0	54.7		109.3												

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed

Form 4 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** Test

Spike Sample ID: LXNKXS

Original Sample ID: LXNKX **Client ID:** RE12-10-15444 S

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Antimony	123	0.49	J	51.6		60.292	84.8	1	1	ICPMS	4/15/2010	18:29	4/15/2010	18:39

Comments: Lot #: F0D080495 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** Test

Spike Sample ID: LXNK6S

Original Sample ID: LXNK6 **Client ID:** RE12-10-15443 S

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 15.53

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Antimony	123	0.27	J	10.9		11.839	89.6	1	1	ICPMS	4/15/2010	18:45	4/15/2010	18:49

Comments: Lot #: F0D080495 Sample #: 2

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** Test

Duplicate Sample ID: LXNKXX

Original Sample ID: LXNKX **Client ID:** RE12-10-15444 X

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Antimony	123	0.49	J	0.41	J	18.5	1	1	ICPMS	4/15/2010	18:29	4/15/2010	18:36

U Result is less than the IDL
J Result is between IDL and RL
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** Test

Lab Sample ID: LXWVVC

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Antimony	123	50.0	44.0	88.0		80-120	1	ICPMS	4/15/2010	18:26

Comments: Lot #: F0D080495

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 7 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** Test

Serial Dilution Sample ID: LXNKXV

Original Sample ID: LXNKX **Client ID:** RE12-10-15444 V

Matrix: Soil **Units:** mg/kg **Prep Date:** 4/14/2010 **Prep Batch:** 0103375

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 17.07

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Antimony	123	0.49	J	0.55	J	12.7	1	5	ICPMS	4/15/2010	18:29	4/15/2010	18:33

Comments: 10

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Detection Limits **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Mass	Reporting Limit	MDL	Date of MDL
Antimony	123	2.5	0.32	2/16/2010

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Antimony	123.00	1000	4/15/2010

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Preparation Log **SDG:** Test

Preparation Batch: 0103375 **Instrument:** ICPMS **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
LXWVVB	4/14/2010	0.5	100	NA
LXWVVC	4/14/2010	0.5	100	NA
LXNK6	4/14/2010	0.5	100	15.53
LXNK6S	4/14/2010	0.5	100	15.53
LXNK8	4/14/2010	0.5	100	14.36
LXNKX	4/14/2010	0.5	100	17.07
LXNKXS	4/14/2010	0.5	100	17.07
LXNKXX	4/14/2010	0.5	100	17.07
LXNLC	4/14/2010	0.5	100	14.85
LXNLE	4/14/2010	0.5	100	6.15
LXNLH	4/14/2010	0.5	100	13.98
LXNLK	4/14/2010	0.5	100	3.31

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041510M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Blank		4/15/2010	16:58
Standard 1		4/15/2010	17:02
Standard 2		4/15/2010	17:05
Standard 3		4/15/2010	17:09
ICV		4/15/2010	17:13
ICB		4/15/2010	17:17
CRI		4/15/2010	17:20
ICSA		4/15/2010	17:24
ICSAB		4/15/2010	17:28
CCV		4/15/2010	17:33
CCB		4/15/2010	17:37
ZZZZZZ		4/15/2010	17:41
ZZZZZZ		4/15/2010	17:44
ZZZZZZ		4/15/2010	17:47
ZZZZZZ		4/15/2010	17:50
ZZZZZZ		4/15/2010	17:53
ZZZZZZ		4/15/2010	17:57
ZZZZZZ		4/15/2010	18:00
ZZZZZZ		4/15/2010	18:03
ZZZZZZ		4/15/2010	18:06
ZZZZZZ		4/15/2010	18:09
CCV		4/15/2010	18:13
CCB		4/15/2010	18:16
ZZZZZZ		4/15/2010	18:20
LXWVVB		4/15/2010	18:23
LXWVVC		4/15/2010	18:26
LXNKX	RE12-10-15444	4/15/2010	18:29
LXNKXV	RE12-10-15444 V	4/15/2010	18:33
LXNKXX	RE12-10-15444 X	4/15/2010	18:36
LXNKXS	RE12-10-15444 S	4/15/2010	18:39
ZZZZZZ		4/15/2010	18:42
LXNK6	RE12-10-15443	4/15/2010	18:45
LXNK6S	RE12-10-15443 S	4/15/2010	18:49
CCV		4/15/2010	18:52
CCB		4/15/2010	18:55
LXNK8	RE12-10-15442	4/15/2010	18:59
LXNLC	RE12-10-15448	4/15/2010	19:02
LXNLE	RE12-10-15446	4/15/2010	19:05
LXNLH	RE12-10-15445	4/15/2010	19:09

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041510M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
LXNLK	RE12-10-15447	4/15/2010	19:12
ZZZZZZ		4/15/2010	19:15
ZZZZZZ		4/15/2010	19:18
ZZZZZZ		4/15/2010	19:21
ZZZZZZ		4/15/2010	19:25
ZZZZZZ		4/15/2010	19:28
CCV		4/15/2010	19:31
CCB		4/15/2010	19:35
ZZZZZZ		4/15/2010	19:38
ZZZZZZ		4/15/2010	19:42
ZZZZZZ		4/15/2010	19:45
ZZZZZZ		4/15/2010	19:48
ZZZZZZ		4/15/2010	19:51
ZZZZZZ		4/15/2010	19:54
ZZZZZZ		4/15/2010	19:57
ZZZZZZ		4/15/2010	20:01
ZZZZZZ		4/15/2010	20:04
ZZZZZZ		4/15/2010	20:07
ZZZZZZ		4/15/2010	20:10
ZZZZZZ		4/15/2010	20:14
ZZZZZZ		4/15/2010	20:18
ZZZZZZ		4/15/2010	20:21
ZZZZZZ		4/15/2010	20:24
ZZZZZZ		4/15/2010	20:27
ZZZZZZ		4/15/2010	20:30
ZZZZZZ		4/15/2010	20:33
ZZZZZZ		4/15/2010	20:37
ZZZZZZ		4/15/2010	20:40
ZZZZZZ		4/15/2010	20:43
ZZZZZZ		4/15/2010	20:46
ZZZZZZ		4/15/2010	20:49
ZZZZZZ		4/15/2010	20:53
ZZZZZZ		4/15/2010	20:57
ZZZZZZ		4/15/2010	21:00
ZZZZZZ		4/15/2010	21:03
ZZZZZZ		4/15/2010	21:06
ZZZZZZ		4/15/2010	21:09
ZZZZZZ		4/15/2010	21:13
ZZZZZZ		4/15/2010	21:16

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041510M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/15/2010	21:19
ZZZZZZ		4/15/2010	21:22
ZZZZZZ		4/15/2010	21:25
ZZZZZZ		4/15/2010	21:29
ZZZZZZ		4/15/2010	21:32
ZZZZZZ		4/15/2010	21:36
ZZZZZZ		4/15/2010	21:39
ZZZZZZ		4/15/2010	21:43
ZZZZZZ		4/15/2010	21:47
ZZZZZZ		4/15/2010	21:51
ZZZZZZ		4/15/2010	21:55
ZZZZZZ		4/15/2010	21:59
ZZZZZZ		4/15/2010	22:03
ZZZZZZ		4/15/2010	22:06
ZZZZZZ		4/15/2010	22:10
ZZZZZZ		4/15/2010	22:14
ZZZZZZ		4/15/2010	22:20
ZZZZZZ		4/15/2010	22:24
ZZZZZZ		4/15/2010	22:28
ZZZZZZ		4/15/2010	22:31
ZZZZZZ		4/15/2010	22:34
ZZZZZZ		4/15/2010	22:38
ZZZZZZ		4/15/2010	22:41
ZZZZZZ		4/15/2010	22:44
ZZZZZZ		4/15/2010	22:48
ZZZZZZ		4/15/2010	22:51
ZZZZZZ		4/15/2010	22:54
ZZZZZZ		4/15/2010	22:58
ZZZZZZ		4/15/2010	23:02
ZZZZZZ		4/15/2010	23:06
ZZZZZZ		4/15/2010	23:09
ZZZZZZ		4/15/2010	23:12
ZZZZZZ		4/15/2010	23:16
ZZZZZZ		4/15/2010	23:19
ZZZZZZ		4/15/2010	23:22
ZZZZZZ		4/15/2010	23:26
ZZZZZZ		4/15/2010	23:29
ZZZZZZ		4/15/2010	23:32
ZZZZZZ		4/15/2010	23:36

TESTAMERICA-ST.LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041510M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/15/2010	23:39
ZZZZZZ		4/15/2010	23:43
ZZZZZZ		4/15/2010	23:47
ZZZZZZ		4/15/2010	23:50
ZZZZZZ		4/15/2010	23:53
ZZZZZZ		4/15/2010	23:57
ZZZZZZ		4/16/2010	0:00
ZZZZZZ		4/16/2010	0:03
ZZZZZZ		4/16/2010	0:07
ZZZZZZ		4/16/2010	0:10
ZZZZZZ		4/16/2010	0:13
ZZZZZZ		4/16/2010	0:17
ZZZZZZ		4/16/2010	0:21
ZZZZZZ		4/16/2010	0:24
ZZZZZZ		4/16/2010	0:28
ZZZZZZ		4/16/2010	0:31
ZZZZZZ		4/16/2010	0:34
ZZZZZZ		4/16/2010	0:38
ZZZZZZ		4/16/2010	0:41
ZZZZZZ		4/16/2010	0:44
ZZZZZZ		4/16/2010	0:48
ZZZZZZ		4/16/2010	0:51
ZZZZZZ		4/16/2010	0:54
ZZZZZZ		4/16/2010	0:58
ZZZZZZ		4/16/2010	1:02
ZZZZZZ		4/16/2010	1:06
ZZZZZZ		4/16/2010	1:09
ZZZZZZ		4/16/2010	1:12
ZZZZZZ		4/16/2010	1:16
ZZZZZZ		4/16/2010	1:19
ZZZZZZ		4/16/2010	1:22
ZZZZZZ		4/16/2010	1:26
ZZZZZZ		4/16/2010	1:29
ZZZZZZ		4/16/2010	1:32
ZZZZZZ		4/16/2010	1:36
ZZZZZZ		4/16/2010	1:39
ZZZZZZ		4/16/2010	1:43

METALS RAW DATA

4-16-10
STJ.041210 MS

Sample/Batch Report

User Name: stlmetals
Computer Name: SLICP03
Sample File: D:\Elandata\Sample\SW846 TEMP.sam
Report Date/Time: Thursday, April 15, 2010 16:55:48

fil: 041510M2

	A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
	243	LDR	1PPM							
	244		2PPM	—Sb@ 1ppm						
	242	LLC	TRACE							
	11	0098183	LXNDFB	2						
	12		LXNDFC	2						
	13		LXLR4	2						
	14		LXLR4V	10						
	15		LXLR4X	2						
	16		LXLR4S	2						
	17		LXLR4A	2						
cw	18		LXLR4S LL	2						
	19	0103375	LXWVVB	2						
	20		LXWVVC	2						
	21		LXNKX	2						
	22		LXNKXV	10						
	23		LXNKXX	2						
	24		LXNKXS	2						
	25		LXNKXA	2						
	26		LXNK6	2						
	27		LXNK6S	2						
cw	28		LXNK8	2						
	29		LXNLC	2						
	30		LXNLE	2						
	31		LXNLH	2						
	32		LXNLK	2						
	33	0096343	LXK2DB	2						
	34		LXK2DC	2						
	35		LXAHW	2						
	36		LXAHWV	10						
	37		LXAHWX	2						
cw	38		LXAHWS	2						
	39		LXAHWA	2						
	40		LXAH8	2						
	41		LXAH8S	2						
	42		LXAJJ	2						
	43		LXAJL	2						
	44		LXAJP	2						
	45		LXC9E	2						
	46		LXC95	2						
	47		LXDCH	2						
cw	48		LXDCV	2						
	49		LXDC2	2						
	50		LXDC5	2						
	51		LXDDA	2						
	52		LXDE6	2						
	53		LXDFN	2						
	54		LXDFR	2						
	55	0103437	LXW77B	2						
	56		LXW77C	2						

Init. Quant.: 1CU | Prep. Vol.: 1CB | Aliquot Vol.: LC4 | Diluted Vol.: A | Solids Ratio: AB | CCU | CCB

All

cw ~~57~~		LW7EL	2
58		LW7ELV	10
59		LW7ELS	2
60		LW7ELD	2
61		LW7ER	2
62		LW7ET	2
63		LW7EW	2
64		LW7EX	2
65		LW7E1	2
66		LW7E2	2
67		LW7E3	2
cw ~~228~~		~~CCV~~	
237		~~CCB~~	
243	LDR	1PPM	
244		2PPM	
245		20 PPM	
246		50 PPM	
247		200 PPM	
242	LLC	TRACE	
68	0104298	LXX4AB	
69		LXX4AC	
70		LXCMH	
71		LXCMHV	5
72		LXCMHS	
73		LXCMHD	
74		LXCML	
75		LXCMN	
76		LXCMP	
77		LXCMR	
78		LXCMT	
79	0105275	LX1V4B	2
80		LX1V4C	5
81		LX1V4C	10
82		LW5N3	2
83		LW5N3V	10
84		LW5N3S	2
85		LW5N3D	2
86		LW5PM	2
87		LW5PT	2
88		LW5PX	2
89		LW5P2	2
90		LW5P3	2
91		LW5P5	2
92		LW5P7	2
93		LW5P9	2
94		LW5QC	2
95		LW7EL	2
96		LW7ER	2
97		LW7EW	2
98		LW7EX	2
99		LW7E1	2
100		LW7E2	2
101		LW7E3	2
102	0104124	LXXFAB	2
103		LXXFAC	2
104		LXV46	4
105		LXV46V	20
106		LXV46S	4
107		LXV46D	4
108		LXV46A	4

All

4-16-10
x2

109	LXV48	4

Instrument Tuning Report

File Name: EPA TUNING.tun
File Path: d:\Elandata\Tuning
Sample ID: Sample
Sample Date/Time: Thursday, April 15, 2010 09:35:41

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	585	2085	0.687	
Mg	23.985	24.028	5690	2085	0.678	
Rh	102.905	102.929	24921	2080	0.684	
Ce	139.905	139.879	33908	2112	0.696	
Pb	207.977	207.977	50390	2300	0.708	

Replicates: 4

Meas. Intens. RSD	Mass
0.390	2.000
0.502	3.000
23.976	4.000
4.693	23.000
0.389	24.000
0.966	25.000
4.570	102.000
1.332	103.000
28.442	104.000
8.143	139.000
1.113	140.000
24.808	141.000
1.338	207.000
1.500	208.000
4.198	209.000

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, April 15, 2010 10:24:44
Sample Description:
Method File: d:\Elandata\Method\DAILY EPA.mth
Dataset File: d:\Elandata\Dataset\daily performance epa 3\Sample.072
Tuning File: d:\Elandata\Tuning\EPA TUNING.tun
Optimization File: d:\Elandata\Optimize\EPA2008.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
	Mg	24.0	63452.4	63452.441	320.110	0.5
	Rh	102.9	436490.4	436490.387	3474.219	0.8
	Pb	208.0	248954.0	248954.037	1844.625	0.7
>	Ba	137.9	451922.7	451922.651	4811.350	1.1
	Ba++	69.0	8453.7	0.019	0.000	1.7
>	Ce	139.9	542075.4	542075.360	4613.879	0.9
	CeO	155.9	12046.7	0.022	0.000	0.8
	Bkgd	220.0	33.3	33.278	2.462	7.4

Current Optimization File Data

Current Value	Description
0.90	Nebulizer Gas Flow
6.00	Lens Voltage
1400.00	ICP RF Power
-2109.38	Analog Stage Voltage
1300.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	5.0	5025.6
Mg	24	29	4.5	67587.2
Co	59	29	5.8	207412.2
Rh	103	29	6.5	462006.9
In	115	29	6.5	556892.3
Ba	138	29	6.5	485642.4
Ce	140	29	6.5	598938.7
Pb	208	29	8.8	255207.1

Quantitative Analysis Calibration Report

File Name: 041510M2.cal
File Path: D:\Elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Na	22.990	Linear Thru Zero	0.015765	0.00	0.999976
Mg	23.985	Linear Thru Zero	0.010923	0.00	0.999999
Al	26.982	Linear Thru Zero	0.016178	0.00	0.999999
K	38.964	Linear Thru Zero	0.029380	0.00	0.999989
Ca	43.956	Linear Thru Zero	0.000970	0.00	0.999922
Fe	56.935	Linear Thru Zero	0.001002	0.00	0.999950
In-1	114.904	Linear Thru Zero	0.000000	0.00	0.000000
Sb	122.904	Linear Thru Zero	0.009737	0.00	0.999996

QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank
Sample Date/Time: Thursday, April 15, 2010 16:58:38
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041510M2\Blank.001

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			272634.127	ug/L	
	23	Na			22000.152	ug/L	
	24	Mg			2186.189	ug/L	
	27	Al			4342.370	ug/L	
	39	K			904892.349	ug/L	
	44	Ca			78184.826	ug/L	
	57	Fe			14399.300	ug/L	
>	115	In-1			754233.555	ug/L	
	123	Sb			573.431	ug/L	

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115		
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1
Sample Date/Time: Thursday, April 15, 2010 17:02:18
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041510M2\Standard 1.002

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			290636.078	ug/L	272634.127
	23	Na	50.000000	3.788	279600.364	ug/L	22000.152
	24	Mg	50.000000	3.171	174950.009	ug/L	2186.189
	27	Al	30.000000	3.714	161437.204	ug/L	4342.370
	39	K	100.000000	6.180	1782339.553	ug/L	904892.349
	44	Ca	100.000000	18.624	110845.837	ug/L	78184.826
	57	Fe	50.000000	7.315	31265.668	ug/L	14399.300
>	115	In-1			763294.268	ug/L	754233.555
	123	Sb	5.000000	2.559	39650.523	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115		
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2
Sample Date/Time: Thursday, April 15, 2010 17:05:59
Autosampler Position: 3
Dataset File: D:\Elandata\Dataset\041510M2\Standard 2.003

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			306522.346	ug/L	272634.127
|	23	Na	624.669314	6.335	3139070.658	ug/L	22000.152
|	24	Mg	1249.809869	6.771	4156079.843	ug/L	2186.189
|	27	Al	624.842172	3.004	3110499.031	ug/L	4342.370
|	39	K	625.284469	4.078	6511609.839	ug/L	904892.349
|	44	Ca	1250.606225	9.828	481558.199	ug/L	78184.826
⌊	57	Fe	1249.912976	6.129	418327.252	ug/L	14399.300
⌈>	115	In-1			775948.903	ug/L	754233.555
⌊	123	Sb	49.980767	1.537	382919.950	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45		
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115		
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3
Sample Date/Time: Thursday, April 15, 2010 17:09:40
Autosampler Position: 4
Dataset File: D:\Elandata\Dataset\041510M2\Standard 3.004

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			297125.291	ug/L	272634.127
|	23	**Na**	**3120.705828**	5.434	14626273.992	ug/L	22000.152
|	24	**Mg**	**6251.508593**	3.263	20276857.716	ug/L	2186.189
|	27	**Al**	**3124.605531**	4.645	15006656.943	ug/L	4342.370
|	39	**K**	**3127.946464**	3.392	28275890.361	ug/L	904892.349
|	44	**Ca**	**6234.372913**	6.680	1879422.730	ug/L	78184.826
⌊	57	**Fe**	**6237.504972**	3.051	1871072.966	ug/L	14399.300
⌈>	115	**In-1**			765261.217	ug/L	754233.555
⌊	123	**Sb**	**249.872559**	1.660	1862384.875	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45		
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115		
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1
Sample Date/Time: Thursday, April 15, 2010 17:13:21
Autosampler Position: 7
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 1.005

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			293700.741	ug/L	272634.127
	23	Na	4028.781236	3.905	18652306.980	ug/L	22000.152
	24	Mg	3824.600067	6.882	12246575.638	ug/L	2186.189
	27	Al	3945.602278	6.438	18712138.617	ug/L	4342.370
	39	K	3942.487476	5.595	34925697.237	ug/L	904892.349
	44	Ca	4354.390087	7.030	1322269.185	ug/L	78184.826
	57	Fe	4087.579319	5.347	1216550.352	ug/L	14399.300
>	115	In-1			737635.126	ug/L	754233.555
	123	Sb	537.516341	2.043	3860339.283	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.727	
	Na	23		100.720
	Mg	24		95.615
	Al	27		96.640
	K	39		98.562
	Ca	44		108.860
	Fe	57		102.189
>	In-1	115	97.799	
	Sb	123		107.503

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2
Sample Date/Time: Thursday, April 15, 2010 17:17:02
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 2.006

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			259703.179	ug/L	272634.127
	23	Na	0.850623	54.658	24415.806	ug/L	22000.152
	24	Mg	0.702586	57.759	4061.978	ug/L	2186.189
	27	Al	0.587775	56.717	6590.958	ug/L	4342.370
	39	K	5.063440	73.244	900251.580	ug/L	904892.349
	44	Ca	19.256922	33.165	79307.991	ug/L	78184.826
	57	Fe	1.219226	97.091	14030.764	ug/L	14399.300
>	115	In-1			727464.863	ug/L	754233.555
	123	Sb	0.139277	31.195	1539.145	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.257	
	Na	23		85.062
	Mg	24		70.259
	Al	27		58.777
	K	39		506.344
	Ca	44		1925.692
	Fe	57		121.923
>	In-1	115	96.451	
	Sb	123		13.928

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3
Sample Date/Time: Thursday, April 15, 2010 17:20:42
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 3.007

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			276812.822	ug/L	272634.127
	23	Na	60.762118	7.487	287121.759	ug/L	22000.152
	24	Mg	58.146718	3.756	177884.439	ug/L	2186.189
	27	Al	35.347741	4.454	162577.482	ug/L	4342.370
	39	K	101.075732	5.660	1739823.640	ug/L	904892.349
	44	Ca	115.915772	20.103	110379.053	ug/L	78184.826
	57	Fe	58.292060	7.211	30773.638	ug/L	14399.300
>	115	In-1			755627.562	ug/L	754233.555
	123	Sb	5.443876	0.360	40626.130	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	101.533	
	Na	23		121.524
	Mg	24		118.293
	Al	27		117.826
	K	39		101.076
	Ca	44		115.916
	Fe	57		116.584
>	In-1	115	100.185	
	Sb	123		108.878

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4
Sample Date/Time: Thursday, April 15, 2010 17:24:22
Autosampler Position: 5
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 4.008

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			293593.160	ug/L	272634.127
	23	Na	10196.360241	9.755	47036827.813	ug/L	22000.152
	24	Mg	10101.634105	7.846	32300597.939	ug/L	2186.189
	27	Al	10193.128051	8.817	48267210.067	ug/L	4342.370
	39	K	10227.028449	8.759	88902369.298	ug/L	904892.349
	44	Ca	10169.939982	5.418	2976156.364	ug/L	78184.826
	57	Fe	10492.797120	5.289	3095759.099	ug/L	14399.300
>	115	In-1			731797.617	ug/L	754233.555
	123	Sb	0.077092	7.836	1104.911	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.688	
	Na	23		101.964
	Mg	24		101.016
	Al	27		101.931
	K	39		102.270
	Ca	44		101.699
	Fe	57		104.928
>	In-1	115	97.025	
	Sb	123		7.709

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5
Sample Date/Time: Thursday, April 15, 2010 17:28:04
Autosampler Position: 6
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 5.009

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			285024.071	ug/L	272634.127
	23	Na	10486.271908	6.600	47054666.082	ug/L	22000.152
	24	Mg	10205.925478	5.657	31725839.462	ug/L	2186.189
	27	Al	10168.490276	4.867	46828906.719	ug/L	4342.370
	39	K	10026.395027	6.530	84785414.954	ug/L	904892.349
	44	Ca	10153.542270	4.926	2886670.738	ug/L	78184.826
	57	Fe	10522.856889	3.977	3017161.816	ug/L	14399.300
>	115	In-1			734942.879	ug/L	754233.555
	123	Sb	54.555569	2.771	391602.064	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.545	
	Na	23		104.863
	Mg	24		102.059
	Al	27		101.685
	K	39		100.264
	Ca	44		101.535
	Fe	57		105.229
>	In-1	115	97.442	
	Sb	123		109.333

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 17:33:45
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.010

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			297028.716	ug/L	272634.127
	23	Na	3981.487951	4.829	18645593.654	ug/L	22000.152
	24	Mg	7833.634161	3.721	25398318.208	ug/L	2186.189
	27	Al	3868.905953	3.405	18577746.018	ug/L	4342.370
	39	K	3771.251267	2.452	33874576.013	ug/L	904892.349
	44	Ca	8047.565549	5.607	2400954.263	ug/L	78184.826
	57	Fe	7949.125570	8.690	2375288.723	ug/L	14399.300
>	115	In-1			721158.028	ug/L	754233.555
	123	Sb	530.793840	2.520	3726742.132	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	108.948	
	Na	23		99.537
	Mg	24		97.920
	Al	27		96.723
	K	39		94.281
	Ca	44		100.595
	Fe	57		99.364
>	In-1	115	95.615	
	Sb	123		106.159

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 17:37:27
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.011

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			265145.232	ug/L	272634.127
	23	Na	4.135227	7.714	38694.831	ug/L	22000.152
	24	Mg	6.937957	9.378	22251.015	ug/L	2186.189
	27	Al	4.900112	8.045	25249.640	ug/L	4342.370
	39	K	5.321272	85.921	920835.742	ug/L	904892.349
	44	Ca	23.367360	48.042	81993.454	ug/L	78184.826
	57	Fe	12.488265	9.670	17315.238	ug/L	14399.300
>	115	In-1			728260.681	ug/L	754233.555
	123	Sb	1.284985	14.577	9644.425	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.253	
	Na	23		413.523
	Mg	24		693.796
	Al	27		490.011
	K	39		532.127
	Ca	44		2336.736
	Fe	57		1248.826
>	In-1	115	96.556	
	Sb	123		128.498

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: 1PPM
Sample Date/Time: Thursday, April 15, 2010 17:41:09
Autosampler Position: 243
Dataset File: D:\Elandata\Dataset\041510M2\1PPM.012

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			274463.377	ug/L	272634.127
	23	Na	7.990524	2.510	56702.580	ug/L	22000.152
	24	Mg	7.220662	3.869	23827.760	ug/L	2186.189
	27	Al	12.955041	3.873	61845.544	ug/L	4342.370
	39	K	-3.518297	135.094	881685.939	ug/L	904892.349
	44	Ca	320.350266	4.382	163936.378	ug/L	78184.826
	57	Fe	1.070808	204.170	14777.273	ug/L	14399.300
>	115	In-1			728314.460	ug/L	754233.555
	123	Sb	495.009918	4.951	3509396.510	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.571	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	96.564	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: 2PPM
Sample Date/Time: Thursday, April 15, 2010 17:44:21
Autosampler Position: 244
Dataset File: D:\Elandata\Dataset\041510M2\2PPM.013

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			272294.905	ug/L	272634.127
	23	Na	16.991143	5.719	94832.730	ug/L	22000.152
	24	Mg	27.017764	1.567	82520.182	ug/L	2186.189
	27	Al	20.736406	4.758	95605.201	ug/L	4342.370
	39	K	-5.214455	69.224	861511.657	ug/L	904892.349
	44	Ca	620.727258	8.324	241831.906	ug/L	78184.826
	57	Fe	-4.066442	21.024	13271.163	ug/L	14399.300
>	115	In-1			712656.481	ug/L	754233.555
	123	Sb	1012.989529	2.471	7028180.197	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	99.876	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	94.488	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE
Sample Date/Time: Thursday, April 15, 2010 17:47:33
Autosampler Position: 242
Dataset File: D:\Elandata\Dataset\041510M2\TRACE.014

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			260355.927	ug/L	272634.127
	23	Na	61.200300	4.147	271949.691	ug/L	22000.152
	24	Mg	58.883374	6.120	169278.389	ug/L	2186.189
	27	Al	36.389035	5.661	157251.062	ug/L	4342.370
	39	K	108.140365	7.307	1689795.487	ug/L	904892.349
	44	Ca	135.336029	11.015	108755.489	ug/L	78184.826
	57	Fe	54.980217	2.589	28084.869	ug/L	14399.300
>	115	In-1			732940.150	ug/L	754233.555
	123	Sb	11.676278	6.955	83925.239	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.496	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	97.177	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNDFB
Sample Date/Time: Thursday, April 15, 2010 17:50:44
Autosampler Position: 11
Dataset File: D:\Elandata\Dataset\041510M2\LXNDFB.015

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			278444.313	ug/L	272634.127
	23	Na	82.657817	0.866	385297.251	ug/L	22000.152
	24	Mg	17.896132	2.053	56656.371	ug/L	2186.189
	27	Al	9.305269	3.852	46344.889	ug/L	4342.370
	39	K	17.301759	20.859	1065536.366	ug/L	904892.349
	44	Ca	125.203970	2.342	113672.593	ug/L	78184.826
	57	Fe	11.885988	14.172	18021.479	ug/L	14399.300
[>	115	In-1			769118.246	ug/L	754233.555
	123	Sb	3.773856	18.974	28845.081	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	102.131	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
[>	In-1	115	101.973	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNDFC
Sample Date/Time: Thursday, April 15, 2010 17:53:55
Autosampler Position: 12
Dataset File: D:\Elandata\Dataset\041510M2\LXNDFC.016

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			299092.263	ug/L	272634.127
	23	Na	374.396485	4.148	1789098.981	ug/L	22000.152
	24	Mg	28.076218	2.101	94122.761	ug/L	2186.189
	27	Al	137.826595	1.530	671633.411	ug/L	4342.370
	39	K	88.965353	2.816	1774382.918	ug/L	904892.349
	44	Ca	223.581891	3.183	150649.719	ug/L	78184.826
	57	Fe	183.446154	6.560	70752.499	ug/L	14399.300
>	115	In-1			761644.773	ug/L	754233.555
	123	Sb	210.095162	2.386	1557967.067	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.705	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	100.983	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4
Sample Date/Time: Thursday, April 15, 2010 17:57:05
Autosampler Position: 13
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4.017

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			319507.377	ug/L	272634.127
	23	Na	667.499156	4.342	3385941.261	ug/L	22000.152
	24	Mg	3196.899781	0.216	11159570.141	ug/L	2186.189
	27	Al	7299.239231	3.850	37714681.603	ug/L	4342.370
	39	K	2341.795947	4.131	23028836.074	ug/L	904892.349
	44	Ca	24538.124628	6.838	7690204.447	ug/L	78184.826
[	57	Fe	22902.905469	1.773	7346566.115	ug/L	14399.300
[>	115	In-1			776159.452	ug/L	754233.555
[	123	Sb	1.963661	9.033	15417.502	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	117.193	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	102.907	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4V
Sample Date/Time: Thursday, April 15, 2010 18:00:16
Autosampler Position: 14
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4V.018

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			273718.945	ug/L	272634.127
	23	Na	155.307350	1.941	692165.126	ug/L	22000.152
	24	Mg	779.628078	0.284	2333108.413	ug/L	2186.189
	27	Al	1706.507048	2.964	7562212.828	ug/L	4342.370
	39	K	515.034861	4.302	5049328.456	ug/L	904892.349
	44	Ca	5640.700702	2.631	1576319.982	ug/L	78184.826
	57	Fe	4987.144954	1.213	1382104.030	ug/L	14399.300
>	115	In-1			752891.953	ug/L	754233.555
	123	Sb	0.369691	2.777	3282.002	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.398	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	99.822	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4X
Sample Date/Time: Thursday, April 15, 2010 18:03:27
Autosampler Position: 15
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4X.019

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			307049.687	ug/L	272634.127
	23	Na	759.693046	0.923	3701785.301	ug/L	22000.152
	24	Mg	3162.591283	2.022	10607462.196	ug/L	2186.189
	27	Al	8008.385983	4.144	39775210.434	ug/L	4342.370
	39	K	2708.345115	6.623	25443975.102	ug/L	904892.349
	44	Ca	12782.209562	2.723	3895032.347	ug/L	78184.826
	57	Fe	20677.010613	3.880	6376677.340	ug/L	14399.300
>	115	In-1			785065.608	ug/L	754233.555
	123	Sb	1.615377	3.432	12945.375	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	112.823	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	104.088	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4S
Sample Date/Time: Thursday, April 15, 2010 18:06:38
Autosampler Position: 16
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4S.020

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			351068.280	ug/L	272634.127
	23	Na	735.960060	0.776	4101468.003	ug/L	22000.152
	24	Mg	4251.299083	1.983	16304554.954	ug/L	2186.189
	27	Al	19325.330864	1.858	109764506.404	ug/L	4342.370
	39	K	3112.814763	1.303	33273432.264	ug/L	904892.349
	44	Ca	9964.767904	1.916	3494823.019	ug/L	78184.826
	57	Fe	22878.338816	0.651	8065713.003	ug/L	14399.300
>	115	In-1			771655.891	ug/L	754233.555
	123	Sb	212.236393	3.433	1594938.604	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	128.769	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	102.310	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4A
Sample Date/Time: Thursday, April 15, 2010 18:09:49
Autosampler Position: 17
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4A.021

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			298623.171	ug/L	272634.127
|	23	**Na**	**636.362529**	5.602	3017832.173	ug/L	22000.152
|	24	**Mg**	**3229.316714**	4.685	10527484.683	ug/L	2186.189
|	27	**Al**	**7172.396340**	5.324	34626147.708	ug/L	4342.370
|	39	**K**	**2350.953587**	5.282	21599571.222	ug/L	904892.349
|	44	**Ca**	**25087.923469**	5.328	7353143.933	ug/L	78184.826
⌊	57	**Fe**	**23410.808581**	1.937	7022205.107	ug/L	14399.300
⌈>	115	**In-1**			777341.028	ug/L	754233.555
⌊	123	**Sb**	**49.578658**	1.283	375853.691	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	109.533	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	103.064	
⌊	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 18:13:00
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.022

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			274155.572	ug/L	272634.127
	23	Na	4095.774480	1.661	17719921.803	ug/L	22000.152
	24	Mg	7879.349632	3.146	23587052.304	ug/L	2186.189
	27	Al	3976.855622	4.525	17632143.750	ug/L	4342.370
	39	K	3971.843697	0.711	32900672.834	ug/L	904892.349
	44	Ca	8433.284406	2.164	2321219.734	ug/L	78184.826
	57	Fe	8382.820534	3.589	2315858.802	ug/L	14399.300
>	115	In-1			701416.671	ug/L	754233.555
	123	Sb	537.227160	0.995	3669864.493	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.558	
	Na	23		102.394
	Mg	24		98.492
	Al	27		99.421
	K	39		99.296
	Ca	44		105.416
	Fe	57		104.785
>	In-1	115	92.997	
	Sb	123		107.445

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 18:16:42
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.023

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	**Sc-1**			262947.833	ug/L	272634.127
	23	**Na**	**5.811691**	14.868	45260.198	ug/L	22000.152
	24	**Mg**	**11.324905**	9.895	34590.651	ug/L	2186.189
	27	**Al**	**7.779492**	7.741	37247.274	ug/L	4342.370
	39	**K**	**0.868227**	441.008	879063.720	ug/L	904892.349
	44	**Ca**	**25.272731**	45.437	81817.495	ug/L	78184.826
[	57	**Fe**	**18.751813**	16.373	18816.825	ug/L	14399.300
[>	115	**In-1**			724779.015	ug/L	754233.555
[	123	**Sb**	**1.709635**	9.563	12600.498	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	**Sc-1**	45	**96.447**	
	Na	23		**581.169**
	Mg	24		**1132.490**
	Al	27		**777.949**
	K	39		**86.823**
	Ca	44		**2527.273**
[	**Fe**	57		**1875.181**
[>	**In-1**	115	**96.095**	
[	**Sb**	123		**170.963**

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLR4S LL
Sample Date/Time: Thursday, April 15, 2010 18:20:24
Autosampler Position: 18
Dataset File: D:\Elandata\Dataset\041510M2\LXLR4S LL.024

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			314939.771	ug/L	272634.127
	23	Na	716.027924	5.495	3578011.337	ug/L	22000.152
	24	Mg	3918.269266	3.318	13478160.725	ug/L	2186.189
	27	Al	13590.448463	4.845	69204397.158	ug/L	4342.370
	39	K	2831.298890	1.708	27246400.251	ug/L	904892.349
	44	Ca	12002.188923	3.521	3756352.757	ug/L	78184.826
	57	Fe	23355.271666	4.580	7382134.329	ug/L	14399.300
>	115	In-1			781291.204	ug/L	754233.555
	123	Sb	50.039698	1.105	381218.242	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.517	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	103.587	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXWVVB
Sample Date/Time: Thursday, April 15, 2010 18:23:35
Autosampler Position: 19
Dataset File: D:\Elandata\Dataset\041510M2\LXWVVB.025

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			276657.387	ug/L	272634.127
	23	Na	83.110911	2.804	384757.609	ug/L	22000.152
	24	Mg	18.391165	1.839	57799.990	ug/L	2186.189
	27	Al	10.192155	2.132	50023.618	ug/L	4342.370
	39	K	19.517605	10.101	1076804.945	ug/L	904892.349
	44	Ca	147.157114	3.518	118835.085	ug/L	78184.826
	57	Fe	32.123827	8.672	23512.188	ug/L	14399.300
>	115	In-1			754567.299	ug/L	754233.555
	123	Sb	0.476966	3.111	4077.735	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	101.476	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	100.044	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXWVVC
Sample Date/Time: Thursday, April 15, 2010 18:26:46
Autosampler Position: 20
Dataset File: D:\Elandata\Dataset\041510M2\LXWVVC.026

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			287222.819	ug/L	272634.127
	23	Na	310.410487	7.085	1425666.426	ug/L	22000.152
	24	Mg	20.175219	7.566	65462.081	ug/L	2186.189
	27	Al	131.508413	7.421	614285.135	ug/L	4342.370
	39	K	83.107505	13.205	1651898.999	ug/L	904892.349
	44	Ca	147.220530	10.901	123266.188	ug/L	78184.826
[	57	Fe	21.054543	12.729	21205.572	ug/L	14399.300
[>	115	In-1			753507.014	ug/L	754233.555
[	123	Sb	219.968080	3.727	1613469.141	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	105.351	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	99.904	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNKX
Sample Date/Time: Thursday, April 15, 2010 18:29:58
Autosampler Position: 21
Dataset File: D:\Elandata\Dataset\041510M2\LXNKX.027

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			336494.896	ug/L	272634.127
	23	**Na**	**5010.395670**	3.995	26601844.873	ug/L	22000.152
	24	**Mg**	**6977.813634**	2.533	25646241.054	ug/L	2186.189
	27	**Al**	**23105.757534**	3.853	125767043.253	ug/L	4342.370
	39	**K**	**5047.712248**	4.009	51017988.413	ug/L	904892.349
	44	**Ca**	**17511.253736**	1.416	5813287.183	ug/L	78184.826
	57	**Fe**	**27456.345632**	2.426	9273403.762	ug/L	14399.300
>	115	**In-1**			749401.266	ug/L	754233.555
	123	**Sb**	**2.026840**	2.590	15358.522	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**123.424**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	**In-1**	115	**99.359**	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNKXV
Sample Date/Time: Thursday, April 15, 2010 18:33:09
Autosampler Position: 22
Dataset File: D:\Elandata\Dataset\041510M2\LXNKXV.028

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			275338.782	ug/L	272634.127
|	23	Na	1206.425472	3.470	5256525.837	ug/L	22000.152
|	24	Mg	1730.112814	2.962	5206842.547	ug/L	2186.189
|	27	Al	5722.473052	4.685	25495429.324	ug/L	4342.370
|	39	K	1200.655239	1.557	10627078.616	ug/L	904892.349
|	44	Ca	4094.545074	2.102	1172576.468	ug/L	78184.826
⌊	57	Fe	6513.550545	2.685	1810852.969	ug/L	14399.300
⌈>	115	In-1			724089.660	ug/L	754233.555
⌊	123	Sb	0.456688	3.466	3771.085	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	100.992	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	96.003	
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNKXX
Sample Date/Time: Thursday, April 15, 2010 18:36:20
Autosampler Position: 23
Dataset File: D:\Elandata\Dataset\041510M2\LXNKXX.029

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			319026.098	ug/L	272634.127
	23	Na	5168.811757	2.415	26012990.214	ug/L	22000.152
	24	Mg	6867.929119	0.486	23935014.193	ug/L	2186.189
	27	Al	23470.450208	4.130	121074595.523	ug/L	4342.370
	39	K	4870.065302	1.396	46705096.420	ug/L	904892.349
	44	Ca	16408.997909	3.069	5168608.515	ug/L	78184.826
	57	Fe	27955.021746	3.942	8947813.030	ug/L	14399.300
>	115	In-1			782111.232	ug/L	754233.555
	123	Sb	1.682803	4.735	13395.707	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	117.016	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	103.696	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNKXS
Sample Date/Time: Thursday, April 15, 2010 18:39:30
Autosampler Position: 24
Dataset File: D:\Elandata\Dataset\041510M2\LXNKXS.030

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			477926.041	ug/L	272634.127
|	23	Na	3806.478352	8.695	28674920.166	ug/L	22000.152
|	24	Mg	8252.496699	2.558	43065875.997	ug/L	2186.189
|	27	Al	43133.189659	2.163	333628763.424	ug/L	4342.370
|	39	K	5722.146320	3.403	81887851.779	ug/L	904892.349
|	44	Ca	17785.734215	5.011	8377640.712	ug/L	78184.826
⌊	57	Fe	33257.028412	5.671	15934741.699	ug/L	14399.300
⌈>	115	In-1			793799.843	ug/L	754233.555
⌊	123	Sb	214.025912	3.659	1654397.749	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	175.299	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	105.246	
⌊	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNKXA
Sample Date/Time: Thursday, April 15, 2010 18:42:41
Autosampler Position: 25
Dataset File: D:\Elandata\Dataset\041510M2\LXNKXA.031

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			340951.898	ug/L	272634.127
	23	Na	5375.990363	3.880	28916024.501	ug/L	22000.152
	24	Mg	7355.723842	3.566	27397856.348	ug/L	2186.189
	27	Al	25445.826247	3.706	140318850.318	ug/L	4342.370
	39	K	5181.134265	4.077	53042258.242	ug/L	904892.349
	44	Ca	18014.428610	1.336	6057748.478	ug/L	78184.826
	57	Fe	29839.665705	3.429	10209212.308	ug/L	14399.300
>	115	In-1			802293.457	ug/L	754233.555
	123	Sb	53.945645	2.438	421963.373	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	125.058	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	106.372	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNK6
Sample Date/Time: Thursday, April 15, 2010 18:45:51
Autosampler Position: 26
Dataset File: D:\Elandata\Dataset\041510M2\LXNK6.032

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			322219.515	ug/L	272634.127
	23	Na	1210.154222	4.731	6165561.225	ug/L	22000.152
	24	Mg	5573.394141	6.343	19584869.221	ug/L	2186.189
	27	Al	28368.068539	5.816	147650220.937	ug/L	4342.370
	39	K	5321.393541	5.299	51375907.892	ug/L	904892.349
	44	Ca	8175.150031	2.470	2647000.514	ug/L	78184.826
	57	Fe	33466.571041	5.822	10806201.296	ug/L	14399.300
>	115	In-1			800604.925	ug/L	754233.555
	123	Sb	1.122987	3.691	9354.057	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	118.188	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	106.148	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNK6S
Sample Date/Time: Thursday, April 15, 2010 18:49:02
Autosampler Position: 27
Dataset File: D:\Elandata\Dataset\041510M2\LXNK6S.033

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			330638.969	ug/L	272634.127
	23	**Na**	**1069.062898**	4.516	5595093.289	ug/L	22000.152
	24	**Mg**	**5889.272034**	1.735	21265028.056	ug/L	2186.189
	27	**Al**	**36085.036931**	4.125	192895547.987	ug/L	4342.370
	39	**K**	**5398.154681**	4.389	53492990.291	ug/L	904892.349
	44	**Ca**	**7116.078262**	2.227	2376689.157	ug/L	78184.826
	57	**Fe**	**35683.134111**	2.239	11835336.228	ug/L	14399.300
>	115	**In-1**			776570.831	ug/L	754233.555
	123	**Sb**	**45.907269**	3.553	347519.544	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**121.276**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	**In-1**	115	**102.962**	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 18:52:13
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.034

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			283550.659	ug/L	272634.127
	23	Na	3983.020042	2.449	17823690.653	ug/L	22000.152
	24	Mg	7786.360392	1.797	24119351.146	ug/L	2186.189
	27	Al	3917.014835	1.979	17971773.747	ug/L	4342.370
	39	K	3845.540679	1.797	32975627.160	ug/L	904892.349
	44	Ca	8255.058194	3.531	2351844.777	ug/L	78184.826
	57	Fe	8054.317674	2.031	2302805.111	ug/L	14399.300
>	115	In-1			698590.435	ug/L	754233.555
	123	Sb	546.523628	1.016	3717602.957	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.004	
	Na	23		99.576
	Mg	24		97.330
	Al	27		97.926
	K	39		96.139
	Ca	44		103.188
	Fe	57		100.679
>	In-1	115	92.623	
	Sb	123		109.305

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 18:55:55
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.035

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			261188.070	ug/L	272634.127
|	23	Na	5.918943	14.889	45409.724	ug/L	22000.152
|	24	Mg	11.216283	10.548	34052.061	ug/L	2186.189
|	27	Al	12.327374	11.471	56167.991	ug/L	4342.370
|	39	K	3.403323	106.183	892672.879	ug/L	904892.349
|	44	Ca	26.422311	35.910	81563.674	ug/L	78184.826
⌊	57	Fe	21.300690	19.379	19352.918	ug/L	14399.300
⌈>	115	In-1			715334.913	ug/L	754233.555
⌊	123	Sb	1.468391	6.397	10771.042	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	95.802	
|	Na	23		591.894
|	Mg	24		1121.628
|	Al	27		1232.737
|	K	39		340.332
|	Ca	44		2642.231
⌊	Fe	57		2130.069
⌈>	In-1	115	94.843	
⌊	Sb	123		146.839

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNK8
Sample Date/Time: Thursday, April 15, 2010 18:59:37
Autosampler Position: 28
Dataset File: D:\Elandata\Dataset\041510M2\LXNK8.036

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			310980.976	ug/L	272634.127
	23	Na	**193.397264**	4.603	972635.955	ug/L	22000.152
	24	Mg	**4140.009736**	2.558	14059763.876	ug/L	2186.189
	27	Al	**16166.365256**	2.508	81314070.875	ug/L	4342.370
	39	K	**5090.499531**	6.862	47499411.048	ug/L	904892.349
	44	Ca	**6113.241311**	1.760	1934043.810	ug/L	78184.826
	57	Fe	**33519.802154**	2.143	10457856.040	ug/L	14399.300
>	115	In-1			742858.469	ug/L	754233.555
	123	Sb	**1.258054**	4.243	9659.301	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	**114.065**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	**98.492**	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLC
Sample Date/Time: Thursday, April 15, 2010 19:02:48
Autosampler Position: 29
Dataset File: D:\Elandata\Dataset\041510M2\LXNLC.037

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			298966.501	ug/L	272634.127
	23	Na	194.596608	6.075	940062.717	ug/L	22000.152
	24	Mg	3882.539486	5.388	12663838.642	ug/L	2186.189
	27	Al	13966.563342	2.345	67522761.622	ug/L	4342.370
	39	K	4605.236783	4.739	41407988.742	ug/L	904892.349
	44	Ca	5174.720429	2.518	1586257.023	ug/L	78184.826
	57	Fe	29750.023941	5.919	8913932.569	ug/L	14399.300
>	115	In-1			777244.033	ug/L	754233.555
	123	Sb	0.938476	2.744	7693.889	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.659	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	103.051	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLE
Sample Date/Time: Thursday, April 15, 2010 19:05:59
Autosampler Position: 30
Dataset File: D:\Elandata\Dataset\041510M2\LXNLE.038

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			288844.105	ug/L	272634.127
	23	Na	1531.109625	0.334	6995286.450	ug/L	22000.152
	24	Mg	5500.626563	2.284	17357922.841	ug/L	2186.189
	27	Al	17237.539327	2.592	80549280.295	ug/L	4342.370
	39	K	4500.071168	3.041	39145022.086	ug/L	904892.349
	44	Ca	15002.404766	0.462	4287369.193	ug/L	78184.826
	57	Fe	33099.150157	1.535	9593670.578	ug/L	14399.300
>	115	In-1			754201.988	ug/L	754233.555
	123	Sb	1.186412	2.669	9286.573	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.946	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	99.996	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLH
Sample Date/Time: Thursday, April 15, 2010 19:09:10
Autosampler Position: 31
Dataset File: D:\Elandata\Dataset\041510M2\LXNLH.039

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			299275.234	ug/L	272634.127
|	23	**Na**	**246.308896**	3.606	1185890.114	ug/L	22000.152
|	24	**Mg**	**4389.579005**	3.321	14355240.219	ug/L	2186.189
|	27	**Al**	**16319.134421**	3.364	79014502.625	ug/L	4342.370
|	39	**K**	**4970.671958**	2.820	44700445.509	ug/L	904892.349
|	44	**Ca**	**5630.724090**	0.497	1720828.286	ug/L	78184.826
⌊	57	**Fe**	**33131.330304**	2.959	9947940.604	ug/L	14399.300
⌈>	115	**In-1**			762775.667	ug/L	754233.555
⌊	123	**Sb**	**0.922723**	2.198	7430.557	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	**Sc-1**	45	**109.772**	
|	**Na**	23		
|	**Mg**	24		
|	**Al**	27		
|	**K**	39		
|	**Ca**	44		
⌊	**Fe**	57		
⌈>	**In-1**	115	**101.133**	
⌊	**Sb**	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLK
Sample Date/Time: Thursday, April 15, 2010 19:12:21
Autosampler Position: 32
Dataset File: D:\Elandata\Dataset\041510M2\LXNLK.040

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			289731.371	ug/L	272634.127
	23	Na	1461.773323	6.725	6696471.482	ug/L	22000.152
	24	Mg	1790.256137	2.060	5667892.050	ug/L	2186.189
	27	Al	8166.831125	1.811	38283812.319	ug/L	4342.370
	39	K	1527.521451	1.191	13963355.681	ug/L	904892.349
	44	Ca	3935.587903	0.519	1189423.923	ug/L	78184.826
	57	Fe	16972.407397	2.825	4941105.988	ug/L	14399.300
>	115	In-1			768866.958	ug/L	754233.555
	123	Sb	0.452688	1.073	3973.342	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	106.271	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	101.940	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXK2DB

Sample Date/Time: Thursday, April 15, 2010 19:15:32

Autosampler Position: 33

Dataset File: D:\Elandata\Dataset\041510M2\LXK2DB.041

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			302379.440	ug/L	272634.127
23	Na	97.005477	1.622	486766.578	ug/L	22000.152
24	Mg	17.470706	3.382	60116.553	ug/L	2186.189
27	Al	8.978519	2.233	48744.561	ug/L	4342.370
39	K	9.666223	28.652	1089249.552	ug/L	904892.349
44	Ca	141.465162	3.254	128209.048	ug/L	78184.826
57	Fe	32.827706	6.816	25920.571	ug/L	14399.300
115	In-1			809479.568	ug/L	754233.555
123	Sb	0.229884	8.936	2425.554	ug/L	573.431

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	110.910	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
In-1	115	107.325	
Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXK2DC
Sample Date/Time: Thursday, April 15, 2010 19:18:43
Autosampler Position: 34
Dataset File: D:\Elandata\Dataset\041510M2\LXK2DC.042

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			312659.252	ug/L	272634.127
	23	Na	313.489085	3.383	1569689.455	ug/L	22000.152
	24	Mg	21.397028	3.142	75558.177	ug/L	2186.189
	27	Al	142.096745	5.842	722891.208	ug/L	4342.370
	39	K	84.412921	6.467	1812137.418	ug/L	904892.349
	44	Ca	134.339737	9.667	130339.549	ug/L	78184.826
	57	Fe	43.353403	11.277	30063.654	ug/L	14399.300
>	115	In-1			806404.880	ug/L	754233.555
	123	Sb	202.941933	3.383	1592580.307	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	114.681	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	186.917	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAHW
Sample Date/Time: Thursday, April 15, 2010 19:21:54
Autosampler Position: 35
Dataset File: D:\Elandata\Dataset\041510M2\LXAHW.043

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			313752.603	ug/L	272634.127
	23	Na	288.947286	5.931	1453090.459	ug/L	22000.152
	24	Mg	438.603041	1.827	1506202.406	ug/L	2186.189
	27	Al	2174.041626	0.753	11042045.271	ug/L	4342.370
	39	K	560.165496	2.562	6202348.576	ug/L	904892.349
	44	Ca	2535.203166	3.699	861307.344	ug/L	78184.826
	57	Fe	8329.408829	3.717	2633065.184	ug/L	14399.300
>	115	In-1			795071.051	ug/L	754233.555
	123	Sb	0.488370	4.831	4384.722	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.082	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	105.414	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAHWV
Sample Date/Time: Thursday, April 15, 2010 19:25:04
Autosampler Position: 36
Dataset File: D:\Elandata\Dataset\041510M2\LXAHWV.044

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			282821.037	ug/L	272634.127
	23	**Na**	**68.182193**	4.225	326642.694	ug/L	22000.152
	24	**Mg**	**105.943864**	2.269	329428.309	ug/L	2186.189
	27	**Al**	**478.941524**	2.615	2195207.379	ug/L	4342.370
	39	**K**	**106.001173**	5.381	1818837.341	ug/L	904892.349
	44	**Ca**	**553.141134**	5.182	232773.242	ug/L	78184.826
	57	**Fe**	**1825.194204**	5.885	531663.549	ug/L	14399.300
>	115	**In-1**			768426.680	ug/L	754233.555
	123	**Sb**	**0.107419**	5.954	1388.393	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.736	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	101.882	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAHWX
Sample Date/Time: Thursday, April 15, 2010 19:28:15
Autosampler Position: 37
Dataset File: D:\Elandata\Dataset\041510M2\LXAHWX.045

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			305633.237	ug/L	272634.127
	23	Na	344.142742	2.872	1682463.845	ug/L	22000.152
	24	Mg	671.470254	2.624	2243522.467	ug/L	2186.189
	27	Al	2959.537802	1.847	14637238.805	ug/L	4342.370
	39	K	770.368817	0.932	7932440.757	ug/L	904892.349
	44	Ca	3189.941613	0.804	1033689.814	ug/L	78184.826
	57	Fe	9293.994234	4.982	2861280.224	ug/L	14399.300
>	115	In-1			792160.895	ug/L	754233.555
	123	Sb	0.364235	6.865	3408.779	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	112.104	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	105.029	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 19:31:26
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.046

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			281521.003	ug/L	272634.127
	23	Na	4018.759616	3.718	17851886.625	ug/L	22000.152
	24	Mg	7756.279242	1.199	23856515.648	ug/L	2186.189
	27	Al	3919.777387	3.329	17853959.142	ug/L	4342.370
	39	K	3972.164199	1.731	33782014.967	ug/L	904892.349
	44	Ca	8274.660994	4.368	2339716.246	ug/L	78184.826
	57	Fe	8221.581511	1.400	2333461.351	ug/L	14399.300
>	115	In-1			723794.074	ug/L	754233.555
	123	Sb	526.709870	1.590	3712174.383	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.260	
	Na	23		100.489
	Mg	24		96.953
	Al	27		97.984
	K	39		99.304
	Ca	44		103.433
	Fe	57		102.770
>	In-1	115	95.964	
	Sb	123		105.342

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 19:35:08
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.047

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			273362.512	ug/L	272634.127
	23	Na	5.309653	15.533	44897.074	ug/L	22000.152
	24	Mg	9.461623	4.902	30425.688	ug/L	2186.189
	27	Al	5.950535	8.494	30640.863	ug/L	4342.370
	39	K	-3.600385	148.348	877794.945	ug/L	904892.349
	44	Ca	-4.662387	184.793	77126.093	ug/L	78184.826
	57	Fe	15.447645	19.918	18659.923	ug/L	14399.300
>	115	In-1			752652.307	ug/L	754233.555
	123	Sb	1.398252	7.210	10817.429	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.267	
	Na	23		530.965
	Mg	24		946.162
	Al	27		595.054
	K	39		-360.038
	Ca	44		-466.239
	Fe	57		1544.765
>	In-1	115	99.790	
	Sb	123		139.825

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAHWS
Sample Date/Time: Thursday, April 15, 2010 19:38:49
Autosampler Position: 38
Dataset File: D:\Elandata\Dataset\041510M2\LXAHWS.048

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			368788.321	ug/L	272634.127
	23	Na	908.584851	6.239	5307424.242	ug/L	22000.152
	24	Mg	1204.380090	2.032	4853379.028	ug/L	2186.189
	27	Al	6917.860820	0.590	41283327.753	ug/L	4342.370
	39	K	1773.253191	1.028	20436120.692	ug/L	904892.349
	44	Ca	3135.244884	2.131	1227296.368	ug/L	78184.826
	57	Fe	9046.983522	1.377	3361972.744	ug/L	14399.300
>	115	In-1			789737.493	ug/L	754233.555
	123	Sb	213.666260	1.766	1643508.049	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	135.269	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	104.707	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAHWA
Sample Date/Time: Thursday, April 15, 2010 19:42:00
Autosampler Position: 39
Dataset File: D:\Elandata\Dataset\041510M2\LXAHWA.049

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			318633.371	ug/L	272634.127
	23	Na	**303.674671**	11.198	1545521.962	ug/L	22000.152
	24	Mg	**452.645978**	4.599	1575510.290	ug/L	2186.189
	27	Al	**2112.737090**	8.989	10863605.903	ug/L	4342.370
	39	K	**511.653404**	5.459	5838573.291	ug/L	904892.349
	44	Ca	**2444.784827**	7.121	845548.545	ug/L	78184.826
	57	Fe	**8223.394745**	6.684	2636172.887	ug/L	14399.300
>	115	In-1			799155.850	ug/L	754233.555
	123	Sb	**46.563544**	3.321	362823.430	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	116.872	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	105.956	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAH8
Sample Date/Time: Thursday, April 15, 2010 19:45:11
Autosampler Position: 40
Dataset File: D:\Elandata\Dataset\041510M2\LXAH8.050

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			316266.351	ug/L	272634.127
	23	Na	291.890681	7.030	1477853.879	ug/L	22000.152
	24	Mg	825.685695	5.346	2850643.471	ug/L	2186.189
	27	Al	3606.947186	4.043	18438569.948	ug/L	4342.370
	39	K	737.853568	8.208	7889705.159	ug/L	904892.349
	44	Ca	5551.900239	3.740	1792601.975	ug/L	78184.826
	57	Fe	11042.350884	3.844	3512430.009	ug/L	14399.300
[>	115	In-1			792580.077	ug/L	754233.555
	123	Sb	1.271308	14.037	10409.624	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	116.004	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
[>	In-1	115	105.084	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAH8S
Sample Date/Time: Thursday, April 15, 2010 19:48:21
Autosampler Position: 41
Dataset File: D:\Elandata\Dataset\041510M2\LXAH8S.051

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			357655.242	ug/L	272634.127
	23	Na	252.540055	4.513	1452649.436	ug/L	22000.152
	24	Mg	1169.499697	3.352	4571482.002	ug/L	2186.189
	27	Al	6080.606084	6.227	35184433.535	ug/L	4342.370
	39	K	824.524621	3.117	9851950.598	ug/L	904892.349
	44	Ca	7326.494706	3.848	2644639.172	ug/L	78184.826
	57	Fe	12841.331908	3.365	4619705.176	ug/L	14399.300
>	115	In-1			784662.357	ug/L	754233.555
	123	Sb	44.767464	2.942	342530.151	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	131.185	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	104.034	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAJJ
Sample Date/Time: Thursday, April 15, 2010 19:51:32
Autosampler Position: 42
Dataset File: D:\Elandata\Dataset\041510M2\LXAJJ.052

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			330325.882	ug/L	272634.127
	23	Na	345.688264	2.339	1826353.665	ug/L	22000.152
	24	Mg	460.567655	1.171	1664387.685	ug/L	2186.189
	27	Al	2210.618502	1.090	11820596.716	ug/L	4342.370
	39	K	663.206140	6.688	7536391.724	ug/L	904892.349
	44	Ca	2858.516652	0.932	1010823.844	ug/L	78184.826
[	57	Fe	11420.939331	2.416	3796489.544	ug/L	14399.300
[>	115	In-1			782355.021	ug/L	754233.555
[	123	Sb	2.252885	4.880	17741.040	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	121.161	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	103.728	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAJL
Sample Date/Time: Thursday, April 15, 2010 19:54:43
Autosampler Position: 43
Dataset File: D:\Elandata\Dataset\041510M2\LXAJL.053

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			312727.535	ug/L	272634.127
	23	Na	237.576153	2.776	1196428.360	ug/L	22000.152
	24	Mg	507.055597	5.346	1734211.603	ug/L	2186.189
	27	Al	1648.145789	2.611	8342599.996	ug/L	4342.370
	39	K	485.167956	3.889	5496657.063	ug/L	904892.349
	44	Ca	2690.171808	2.240	906013.256	ug/L	78184.826
[	57	Fe	6928.080179	3.909	2187136.344	ug/L	14399.300
[>	115	In-1			792997.552	ug/L	754233.555
[	123	Sb	0.321311	10.625	3079.148	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	114.706	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	105.140	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXAJP
Sample Date/Time: Thursday, April 15, 2010 19:57:54
Autosampler Position: 44
Dataset File: D:\Elandata\Dataset\041510M2\LXAJP.054

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	**Sc-1**			304486.336	ug/L	272634.127
	23	**Na**	**487.579535**	5.070	2363423.677	ug/L	22000.152
	24	**Mg**	**325.193048**	3.023	1083698.909	ug/L	2186.189
	27	**Al**	**1718.488433**	3.983	8465748.789	ug/L	4342.370
	39	**K**	**735.848938**	3.379	7590347.676	ug/L	904892.349
	44	**Ca**	**2939.633679**	2.342	955642.659	ug/L	78184.826
[	57	**Fe**	**5834.146168**	3.852	1794963.925	ug/L	14399.300
[>	115	**In-1**			801548.802	ug/L	754233.555
[	123	**Sb**	**0.233785**	3.326	2434.253	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	**111.683**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	**106.273**	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXC9E
Sample Date/Time: Thursday, April 15, 2010 20:01:06
Autosampler Position: 45
Dataset File: D:\Elandata\Dataset\041510M2\LXC9E.055

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			311942.146	ug/L	272634.127
|	23	Na	516.348229	3.217	2563411.882	ug/L	22000.152
|	24	Mg	1520.861124	2.123	5183395.896	ug/L	2186.189
|	27	Al	9920.677411	6.215	50046223.666	ug/L	4342.370
|	39	K	1426.608748	3.724	14110010.232	ug/L	904892.349
|	44	Ca	33069.948294	4.484	10094767.099	ug/L	78184.826
⌊	57	Fe	14400.914906	2.448	4516454.379	ug/L	14399.300
⌈>	115	In-1			790660.160	ug/L	754233.555
⌊	123	Sb	2.459628	3.275	19525.170	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	114.418	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	104.830	
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXC95
Sample Date/Time: Thursday, April 15, 2010 20:04:17
Autosampler Position: 46
Dataset File: D:\Elandata\Dataset\041510M2\LXC95.056

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			335366.432	ug/L	272634.127
	23	**Na**	**209.403451**	1.691	1134068.850	ug/L	22000.152
	24	**Mg**	**2352.970663**	1.783	8621205.637	ug/L	2186.189
	27	**Al**	**10484.168733**	2.310	56896126.419	ug/L	4342.370
	39	**K**	**2576.521687**	2.090	26499120.720	ug/L	904892.349
	44	**Ca**	**34345.968260**	3.960	11273241.910	ug/L	78184.826
	57	**Fe**	**21253.507988**	2.067	7158083.421	ug/L	14399.300
>	115	**In-1**			800146.399	ug/L	754233.555
	123	**Sb**	**2.147058**	1.050	17335.105	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**123.010**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	**In-1**	115	**106.087**	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDCH
Sample Date/Time: Thursday, April 15, 2010 20:07:28
Autosampler Position: 47
Dataset File: D:\Elandata\Dataset\041510M2\LXDCH.057

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			313812.329	ug/L	272634.127
	23	Na	210.692379	2.166	1067429.744	ug/L	22000.152
	24	Mg	1324.658439	0.765	4542766.732	ug/L	2186.189
	27	Al	6427.278020	3.466	32621198.931	ug/L	4342.370
	39	K	1317.556302	2.912	13194197.442	ug/L	904892.349
	44	Ca	5716.297216	3.619	1829707.769	ug/L	78184.826
	57	Fe	17812.897745	3.978	5615079.391	ug/L	14399.300
>	115	In-1			808879.133	ug/L	754233.555
	123	Sb	20.818124	1.887	164550.330	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.104	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	107.245	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 20:10:39
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.058

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			285136.829	ug/L	272634.127
	23	Na	3984.943727	2.815	17938584.445	ug/L	22000.152
	24	Mg	7663.617824	2.405	23865836.056	ug/L	2186.189
	27	Al	3933.930499	3.262	18148419.755	ug/L	4342.370
	39	K	3929.113198	3.187	33851184.227	ug/L	904892.349
	44	Ca	8214.343165	1.958	2354021.074	ug/L	78184.826
	57	Fe	8210.091044	0.721	2360608.191	ug/L	14399.300
>	115	In-1			706794.273	ug/L	754233.555
	123	Sb	539.155122	2.388	3709464.292	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.586	
	Na	23		99.624
	Mg	24		95.795
	Al	27		98.348
	K	39		98.228
	Ca	44		102.679
	Fe	57		102.628
>	In-1	115	93.710	
	Sb	123		107.831

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 20:14:21
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.059

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			262261.763	ug/L	272634.127
	23	Na	6.653838	12.900	48574.658	ug/L	22000.152
	24	Mg	12.079178	4.641	36668.055	ug/L	2186.189
	27	Al	8.390662	7.894	39696.171	ug/L	4342.370
	39	K	3.021697	216.836	892289.907	ug/L	904892.349
	44	Ca	10.009905	139.367	77653.255	ug/L	78184.826
	57	Fe	22.200813	15.774	19659.111	ug/L	14399.300
>	115	In-1			720915.534	ug/L	754233.555
	123	Sb	1.515931	8.391	11181.503	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.196	
	Na	23		665.384
	Mg	24		1207.918
	Al	27		839.066
	K	39		302.170
	Ca	44		1000.991
	Fe	57		2220.081
>	In-1	115	95.583	
	Sb	123		151.593

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDCV

Sample Date/Time: Thursday, April 15, 2010 20:18:02

Autosampler Position: 48

Dataset File: D:\Elandata\Dataset\041510M2\LXDCV.060

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			305160.255	ug/L	272634.127
23	Na	652.861327	2.683	3165552.335	ug/L	22000.152
24	Mg	985.735898	1.509	3288233.378	ug/L	2186.189
27	Al	5754.626675	3.775	28412930.289	ug/L	4342.370
39	K	1326.048422	1.977	12902287.445	ug/L	904892.349
44	Ca	4526.227146	1.730	1427642.199	ug/L	78184.826
57	Fe	13850.368579	0.694	4250786.259	ug/L	14399.300
115	In-1			762220.642	ug/L	754233.555
123	Sb	3.896330	3.510	29497.992	ug/L	573.431

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	111.930	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
In-1	115	101.059	
Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDC2
Sample Date/Time: Thursday, April 15, 2010 20:21:12
Autosampler Position: 49
Dataset File: D:\Elandata\Dataset\041510M2\LXDC2.061

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			304722.130	ug/L	272634.127
	23	Na	177.334210	1.660	876599.368	ug/L	22000.152
	24	Mg	2877.621383	2.021	9581689.836	ug/L	2186.189
	27	Al	6478.185774	0.636	31938874.691	ug/L	4342.370
	39	K	1561.571444	2.544	14987626.656	ug/L	904892.349
	44	Ca	8177.360913	4.184	2503863.739	ug/L	78184.826
	57	Fe	21530.589023	2.259	6587965.214	ug/L	14399.300
>	115	In-1			778479.625	ug/L	754233.555
	123	Sb	0.890313	4.494	7340.342	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.770	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	103.215	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDC5
Sample Date/Time: Thursday, April 15, 2010 20:24:23
Autosampler Position: 50
Dataset File: D:\Elandata\Dataset\041510M2\LXDC5.062

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			314969.541	ug/L	272634.127
|	23	**Na**	**173.688579**	3.850	887523.603	ug/L	22000.152
|	24	**Mg**	**2627.903108**	2.847	9040458.936	ug/L	2186.189
|	27	**Al**	**6271.537052**	2.175	31954238.283	ug/L	4342.370
|	39	**K**	**1499.515655**	4.077	14918720.711	ug/L	904892.349
|	44	**Ca**	**8248.141535**	1.535	2611085.582	ug/L	78184.826
⌊	57	**Fe**	**20041.934207**	2.556	6340244.515	ug/L	14399.300
⌈>	115	**In-1**			775475.216	ug/L	754233.555
⌊	123	**Sb**	**0.780655**	3.075	6484.264	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	**Sc-1**	45	**115.528**	
|	**Na**	23		
|	**Mg**	24		
|	**Al**	27		
|	**K**	39		
|	**Ca**	44		
⌊	**Fe**	57		
⌈>	**In-1**	115	**102.816**	
⌊	**Sb**	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDDA
Sample Date/Time: Thursday, April 15, 2010 20:27:34
Autosampler Position: 51
Dataset File: D:\Elandata\Dataset\041510M2\LXDDA.063

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			315904.619	ug/L	272634.127
	23	Na	216.853711	5.811	1104070.084	ug/L	22000.152
	24	Mg	1760.620915	1.279	6078867.015	ug/L	2186.189
	27	Al	6779.913082	2.054	34651452.448	ug/L	4342.370
	39	K	1442.865878	2.350	14447292.905	ug/L	904892.349
	44	Ca	7311.422549	1.296	2331204.150	ug/L	78184.826
	57	Fe	19280.269352	5.922	6111125.245	ug/L	14399.300
>	115	In-1			806621.457	ug/L	754233.555
	123	Sb	10.996525	2.011	86941.385	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.871	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	106.946	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDE6
Sample Date/Time: Thursday, April 15, 2010 20:30:44
Autosampler Position: 52
Dataset File: D:\Elandata\Dataset\041510M2\LXDE6.064

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			314104.322	ug/L	272634.127
	23	Na	821.737873	3.708	4093274.148	ug/L	22000.152
	24	Mg	2168.027059	0.826	7441180.528	ug/L	2186.189
	27	Al	9106.076416	2.407	45270846.827	ug/L	4342.370
	39	K	2764.375876	1.436	26551186.308	ug/L	904892.349
	44	Ca	5254.678944	2.081	1691717.900	ug/L	78184.826
	57	Fe	20093.236842	3.091	6338698.892	ug/L	14399.300
>	115	In-1			807812.641	ug/L	754233.555
	123	Sb	0.442108	4.325	4091.021	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.211	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	107.104	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDFN
Sample Date/Time: Thursday, April 15, 2010 20:33:55
Autosampler Position: 53
Dataset File: D:\Elandata\Dataset\041510M2\LXDFN.065

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			318751.481	ug/L	272634.127
	23	Na	237.011438	0.821	1216671.076	ug/L	22000.152
	24	Mg	2532.524885	6.643	8815225.458	ug/L	2186.189
	27	Al	8996.240164	2.491	46384718.157	ug/L	4342.370
	39	K	3000.085002	4.158	29157987.067	ug/L	904892.349
	44	Ca	8033.359521	4.077	2575235.013	ug/L	78184.826
	57	Fe	19808.275114	1.943	6342216.429	ug/L	14399.300
[>	115	In-1			805992.231	ug/L	754233.555
	123	Sb	0.749084	2.476	6490.253	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	116.915	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
[>	In-1	115	106.862	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXDFR
Sample Date/Time: Thursday, April 15, 2010 20:37:06
Autosampler Position: 54
Dataset File: D:\Elandata\Dataset\041510M2\LXDFR.066

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			322437.305	ug/L	272634.127
	23	Na	245.333377	1.264	1273015.639	ug/L	22000.152
	24	Mg	2601.948950	6.600	9159640.414	ug/L	2186.189
	27	Al	9757.184817	1.876	50891447.170	ug/L	4342.370
	39	K	3160.399915	4.417	30994368.034	ug/L	904892.349
	44	Ca	9759.444213	1.672	3145102.974	ug/L	78184.826
	57	Fe	20718.441965	0.757	6710969.686	ug/L	14399.300
>	115	In-1			808916.377	ug/L	754233.555
	123	Sb	0.792959	3.298	6861.468	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	118.267	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	107.250	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXW77B
Sample Date/Time: Thursday, April 15, 2010 20:40:17
Autosampler Position: 55
Dataset File: D:\Elandata\Dataset\041510M2\LXW77B.067

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			301206.253	ug/L	272634.127
	23	Na	70.492601	8.178	358803.764	ug/L	22000.152
	24	Mg	14.251135	2.219	49295.074	ug/L	2186.189
	27	Al	8.920336	3.028	48264.587	ug/L	4342.370
	39	K	9.433169	6.904	1083185.177	ug/L	904892.349
	44	Ca	146.865052	5.087	129281.976	ug/L	78184.826
	57	Fe	196.362265	2.146	75157.378	ug/L	14399.300
>	115	In-1			792066.361	ug/L	754233.555
	123	Sb	0.367862	3.886	3439.779	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	110.480	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	105.016	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXW77C
Sample Date/Time: Thursday, April 15, 2010 20:43:28
Autosampler Position: 56
Dataset File: D:\Elandata\Dataset\041510M2\LXW77C.068

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			317836.371	ug/L	272634.127
[	23	Na	287.211692	1.326	1464506.088	ug/L	22000.152
[	24	Mg	20.649530	4.750	74199.762	ug/L	2186.189
[	27	Al	119.821738	3.631	620840.281	ug/L	4342.370
[	39	K	64.533918	5.732	1657185.009	ug/L	904892.349
[	44	Ca	139.338261	9.251	134052.697	ug/L	78184.826
[	57	Fe	157.292077	2.805	66871.115	ug/L	14399.300
[>	115	In-1			779384.969	ug/L	754233.555
[	123	Sb	225.148179	3.223	1708555.165	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	116.580	
[	Na	23		
[	Mg	24		
[	Al	27		
[	K	39		
[	Ca	44		
[	Fe	57		
[>	In-1	115	103.335	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EL
Sample Date/Time: Thursday, April 15, 2010 20:46:39
Autosampler Position: 57
Dataset File: D:\Elandata\Dataset\041510M2\LW7EL.069

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			334681.191	ug/L	272634.127
|	23	**Na**	**141.290113**	0.819	772533.336	ug/L	22000.152
|	24	**Mg**	**2897.805715**	2.015	10597979.976	ug/L	2186.189
|	27	**Al**	**14286.147109**	1.308	77351393.773	ug/L	4342.370
|	39	**K**	**516.687108**	3.017	6191446.558	ug/L	904892.349
|	44	**Ca**	**12472.034942**	1.351	4145652.442	ug/L	78184.826
⌊	57	**Fe**	**35553.513458**	4.669	11935614.508	ug/L	14399.300
⌈>	115	**In-1**			780650.510	ug/L	754233.555
⌊	123	**Sb**	**1.422745**	4.395	11394.975	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	122.758	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	103.502	
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 20:49:51
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.070

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			269892.352	ug/L	272634.127
	23	Na	4052.865139	5.010	17235219.813	ug/L	22000.152
	24	Mg	7952.319890	5.907	23399608.548	ug/L	2186.189
	27	Al	4027.550537	5.150	17559293.776	ug/L	4342.370
	39	K	3993.107746	6.180	32490436.243	ug/L	904892.349
	44	Ca	8511.460715	6.514	2301166.426	ug/L	78184.826
	57	Fe	8299.669922	4.301	2256052.515	ug/L	14399.300
>	115	In-1			693888.136	ug/L	754233.555
	123	Sb	529.253715	1.668	3575739.819	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.994	
	Na	23		101.322
	Mg	24		99.404
	Al	27		100.689
	K	39		99.828
	Ca	44		106.393
	Fe	57		103.746
>	In-1	115	91.999	
	Sb	123		105.851

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 20:53:33
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.071

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			263746.595	ug/L	272634.127
|	23	Na	5.068980	6.346	42368.577	ug/L	22000.152
|	24	Mg	10.550553	4.173	32521.374	ug/L	2186.189
|	27	Al	7.842037	3.019	37673.718	ug/L	4342.370
|	39	K	-2.293999	53.582	857615.137	ug/L	904892.349
|	44	Ca	-0.983511	128.682	75380.469	ug/L	78184.826
⌊	57	Fe	19.810306	5.791	19164.303	ug/L	14399.300
⌈>	115	In-1			721399.215	ug/L	754233.555
⌊	123	Sb	1.453166	9.062	10730.855	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	96.740	
|	Na	23		506.898
|	Mg	24		1055.055
|	Al	27		784.204
|	K	39		-229.400
|	Ca	44		-98.351
⌊	Fe	57		1981.031
⌈>	In-1	115	95.847	
⌊	Sb	123		145.317

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ELV
Sample Date/Time: Thursday, April 15, 2010 20:57:15
Autosampler Position: 58
Dataset File: D:\Elandata\Dataset\041510M2\LW7ELV.072

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			283735.599	ug/L	272634.127
	23	Na	31.885789	5.826	165306.125	ug/L	22000.152
	24	Mg	673.145081	3.433	2086612.755	ug/L	2186.189
	27	Al	3227.892533	2.705	14811346.572	ug/L	4342.370
	39	K	103.731244	9.011	1804699.450	ug/L	904892.349
	44	Ca	2626.495419	3.863	803716.884	ug/L	78184.826
	57	Fe	7541.863965	5.959	2155495.282	ug/L	14399.300
>	115	In-1			737557.673	ug/L	754233.555
	123	Sb	0.471898	5.180	3949.274	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.072	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	97.789	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ELS
Sample Date/Time: Thursday, April 15, 2010 21:00:26
Autosampler Position: 59
Dataset File: D:\Elandata\Dataset\041510M2\LW7ELS.073

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			393364.973	ug/L	272634.127
	23	Na	149.865682	6.988	958938.068	ug/L	22000.152
	24	Mg	3063.127556	3.589	13149341.270	ug/L	2186.189
	27	Al	26424.678017	3.618	168017147.637	ug/L	4342.370
	39	K	709.545276	3.049	9501156.339	ug/L	904892.349
	44	Ca	7549.472418	5.053	2989592.282	ug/L	78184.826
[	57	Fe	36782.833829	6.782	14491372.374	ug/L	14399.300
[>	115	In-1			761764.958	ug/L	754233.555
[	123	Sb	209.583322	1.894	1554737.261	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	144.283	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	100.999	
[	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ELD
Sample Date/Time: Thursday, April 15, 2010 21:03:36
Autosampler Position: 60
Dataset File: D:\Elandata\Dataset\041510M2\LW7ELD.074

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			376777.437	ug/L	272634.127
	23	Na	154.803027	4.249	949422.789	ug/L	22000.152
	24	Mg	3079.968798	2.455	12677314.398	ug/L	2186.189
	27	Al	25936.735476	2.886	158030812.731	ug/L	4342.370
	39	K	728.484563	2.924	9311506.805	ug/L	904892.349
	44	Ca	8817.836337	3.838	3330997.344	ug/L	78184.826
	57	Fe	41906.364678	5.214	15826142.116	ug/L	14399.300
>	115	In-1			754165.348	ug/L	754233.555
	123	Sb	214.738567	1.104	1577179.164	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	138.199	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	99.991	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ER
Sample Date/Time: Thursday, April 15, 2010 21:06:47
Autosampler Position: 61
Dataset File: D:\Elandata\Dataset\041510M2\LW7ER.075

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			315667.418	ug/L	272634.127
	23	Na	152.520031	2.847	784363.078	ug/L	22000.152
	24	Mg	3924.015987	2.519	13534057.281	ug/L	2186.189
	27	Al	15501.661459	5.480	79152097.148	ug/L	4342.370
	39	K	509.296635	1.167	5771247.234	ug/L	904892.349
	44	Ca	24280.318314	2.838	7526419.000	ug/L	78184.826
	57	Fe	33886.923611	2.752	10733232.190	ug/L	14399.300
[>	115	In-1			763936.665	ug/L	754233.555
	123	Sb	1.245700	3.463	9846.334	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	115.784	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
[>	In-1	115	101.288	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ET
Sample Date/Time: Thursday, April 15, 2010 21:09:57
Autosampler Position: 62
Dataset File: D:\Elandata\Dataset\041510M2\LW7ET.076

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			318080.354	ug/L	272634.127
|	23	Na	163.317827	1.802	844488.741	ug/L	22000.152
|	24	Mg	5986.895676	1.910	20799629.030	ug/L	2186.189
|	27	Al	16023.893101	0.887	82458658.491	ug/L	4342.370
|	39	K	531.259638	4.190	6019250.471	ug/L	904892.349
|	44	Ca	25742.719770	3.343	8034409.330	ug/L	78184.826
[	57	Fe	36946.468003	3.064	11792722.175	ug/L	14399.300
[>	115	In-1			765887.806	ug/L	754233.555
[	123	Sb	1.134224	4.632	9035.840	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	116.669	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
[	Fe	57		
[>	In-1	115	101.545	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EW
Sample Date/Time: Thursday, April 15, 2010 21:13:08
Autosampler Position: 63
Dataset File: D:\Elandata\Dataset\041510M2\LW7EW.077

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			336525.351	ug/L	272634.127
	23	Na	164.497821	8.573	898406.103	ug/L	22000.152
	24	Mg	4449.188109	2.327	16346522.679	ug/L	2186.189
	27	Al	16607.535843	3.883	90332273.540	ug/L	4342.370
	39	K	513.227675	4.082	6186993.786	ug/L	904892.349
	44	Ca	14545.510160	6.277	4838362.505	ug/L	78184.826
[	57	Fe	38505.405567	5.735	12980427.974	ug/L	14399.300
[>	115	In-1			771799.679	ug/L	754233.555
[	123	Sb	1.224879	1.321	9791.621	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	123.435	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	102.329	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EX
Sample Date/Time: Thursday, April 15, 2010 21:16:18
Autosampler Position: 64
Dataset File: D:\Elandata\Dataset\041510M2\LW7EX.078

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			307316.453	ug/L	272634.127
	23	Na	137.404406	1.451	690290.344	ug/L	22000.152
	24	Mg	2546.377976	0.859	8549732.996	ug/L	2186.189
	27	Al	13115.991987	3.490	65168291.123	ug/L	4342.370
	39	K	837.187264	5.010	8574976.020	ug/L	904892.349
	44	Ca	11612.526467	2.622	3549701.100	ug/L	78184.826
	57	Fe	29770.949637	4.011	9179377.670	ug/L	14399.300
>	115	In-1			769903.456	ug/L	754233.555
	123	Sb	0.943846	1.286	7660.384	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	112.721	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	102.078	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E1
Sample Date/Time: Thursday, April 15, 2010 21:19:29
Autosampler Position: 65
Dataset File: D:\Elandata\Dataset\041510M2\LW7E1.079

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			304590.060	ug/L	272634.127
	23	Na	182.346359	5.689	899651.198	ug/L	22000.152
	24	Mg	2819.668071	1.271	9382233.110	ug/L	2186.189
	27	Al	13166.120860	2.454	64867571.400	ug/L	4342.370
	39	K	556.444928	5.403	5988293.297	ug/L	904892.349
	44	Ca	13955.628798	3.403	4210639.643	ug/L	78184.826
	57	Fe	31765.239837	3.629	9710305.767	ug/L	14399.300
>	115	In-1			780355.307	ug/L	754233.555
	123	Sb	1.001556	3.291	8201.504	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.721	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	103.463	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E2
Sample Date/Time: Thursday, April 15, 2010 21:22:40
Autosampler Position: 66
Dataset File: D:\Elandata\Dataset\041510M2\LW7E2.080

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			330279.695	ug/L	272634.127
	23	Na	134.241158	4.288	724834.898	ug/L	22000.152
	24	Mg	2528.315383	1.632	9123633.866	ug/L	2186.189
	27	Al	11865.446735	6.229	63304325.897	ug/L	4342.370
	39	K	1061.484952	0.959	11396397.988	ug/L	904892.349
	44	Ca	12258.804432	5.895	4017267.017	ug/L	78184.826
[	57	Fe	36260.946520	3.003	12014044.803	ug/L	14399.300
[>	115	In-1			792946.396	ug/L	754233.555
[	123	Sb	1.257247	4.406	10296.303	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	121.144	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
[	Fe	57		
[>	In-1	115	105.133	
[	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E3
Sample Date/Time: Thursday, April 15, 2010 21:25:51
Autosampler Position: 67
Dataset File: D:\Elandata\Dataset\041510M2\LW7E3.081

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			322602.781	ug/L	272634.127
	23	Na	198.351377	5.603	1034618.162	ug/L	22000.152
	24	Mg	2660.300700	2.741	9373637.623	ug/L	2186.189
	27	Al	12957.348498	2.236	67651318.738	ug/L	4342.370
	39	K	821.910362	4.573	8858538.544	ug/L	904892.349
	44	Ca	11617.365311	3.272	3729694.126	ug/L	78184.826
	57	Fe	30294.781389	0.879	9808781.050	ug/L	14399.300
>	115	In-1			794791.941	ug/L	754233.555
	123	Sb	0.908121	1.575	7631.855	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	118.328	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	105.377	
	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Thursday, April 15, 2010 21:29:03
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 6.082

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			278271.644	ug/L	272634.127
	23	Na	3879.729823	0.888	17040341.328	ug/L	22000.152
	24	Mg	7610.696292	1.786	23129109.604	ug/L	2186.189
	27	Al	3885.684627	5.274	17484802.241	ug/L	4342.370
	39	K	3933.740420	1.716	33077997.664	ug/L	904892.349
	44	Ca	8258.528583	2.209	2310314.114	ug/L	78184.826
	57	Fe	8246.056517	2.717	2313268.928	ug/L	14399.300
>	115	In-1			705205.374	ug/L	754233.555
	123	Sb	522.227945	2.995	3583838.157	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.068	
	Na	23		96.993
	Mg	24		95.134
	Al	27		97.142
	K	39		98.344
	Ca	44		103.232
	Fe	57		103.076
>	In-1	115	93.500	
	Sb	123		104.446

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Thursday, April 15, 2010 21:32:45
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\QC Std 10.083

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			254720.010	ug/L	272634.127
	23	**Na**	**3.405622**	24.008	34157.235	ug/L	22000.152
	24	**Mg**	**6.277234**	11.478	19468.834	ug/L	2186.189
	27	**Al**	**5.201159**	10.808	25441.609	ug/L	4342.370
	39	**K**	**3.986713**	140.767	874328.651	ug/L	904892.349
	44	**Ca**	**9.842059**	98.321	75430.726	ug/L	78184.826
	57	**Fe**	**16.723946**	23.547	17702.159	ug/L	14399.300
>	115	**In-1**			732459.789	ug/L	754233.555
	123	**Sb**	**1.104150**	8.596	8428.997	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**93.429**	
	Na	23		**340.562**
	Mg	24		**627.723**
	Al	27		**520.116**
	K	39		**398.671**
	Ca	44		**984.206**
	Fe	57		**1672.395**
>	**In-1**	115	**97.113**	
	Sb	123		**110.415**

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV
Sample Date/Time: Thursday, April 15, 2010 21:36:27
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041510M2\CCV.084

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			263665.315	ug/L	272634.127
	23	Na	3997.097423	3.793	16635815.441	ug/L	22000.152
	24	Mg	7928.579516	3.739	22823607.350	ug/L	2186.189
	27	Al	3957.621211	1.437	16882473.175	ug/L	4342.370
	39	K	3937.882723	1.384	31384482.659	ug/L	904892.349
	44	Ca	8472.487929	1.270	2243428.184	ug/L	78184.826
	57	Fe	8395.800316	1.403	2232281.525	ug/L	14399.300
>	115	In-1			686660.415	ug/L	754233.555
	123	Sb	526.474637	1.029	3520091.690	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.710	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
>	In-1	115	91.041	
	Sb	123		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB
Sample Date/Time: Thursday, April 15, 2010 21:39:39
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041510M2\CCB.085

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			256554.906	ug/L	272634.127
	23	Na	4.998989	29.204	40859.747	ug/L	22000.152
	24	Mg	8.720271	19.810	26455.212	ug/L	2186.189
	27	Al	5.359337	18.540	26290.761	ug/L	4342.370
	39	K	-1.082941	398.731	842836.491	ug/L	904892.349
	44	Ca	4.961302	224.255	74757.208	ug/L	78184.826
⌊	57	Fe	14.863842	39.254	17339.654	ug/L	14399.300
⌈>	115	In-1			693917.321	ug/L	754233.555
⌊	123	Sb	1.411411	3.734	10066.067	ug/L	573.431

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	94.102	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
⌊	Fe	57		
⌈>	In-1	115	92.003	
⌊	Sb	123		

QC Out Of Limits

Analyte Mass Out of Limits Message

METALS MISCELLANEOUS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Metals Prep Report for Batch # 0103375

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Prep Method: SW-846 6020, Soil 2% **SOP Number:** ST-IP-0002

Extraction Code: NI **Extraction:** **Matrix:** SOLID **Prep Date:** 4/14/2010

Standard Log Ref#: MET-4/10-SOIL

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location	Target List
F0D080495-001	LXNKX	0.50 g	50 mL	☐	04/16/2010	2-57/59	SB
F0D080495-001S	LXNKXS	0.50 g	50 mL	☐		2-57/59	
F0D080495-001X	LXNKXX	0.50 g	50 mL	☐		2-57/59	
F0D080495-002	LXNK6	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D080495-002S	LXNK6S	0.50 g	50 mL	☐		2-57/59	
F0D080495-003	LXNK8	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D080495-004	LXNLC	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D080495-005	LXNLE	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D080495-006	LXNLH	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D080495-007	LXNLK	0.50 g	50 mL	☐	04/16/2010	2-57/59	
F0D130000-375B	LXWVVB	0.50 g	50 mL	☐			
F0D130000-375C	LXWVVC	0.50 g	50 mL	☐			

Comments:

Chemical Lot Information

Chemical	Lot Number
Hydrochloric Acid	H42A18
Nitric Acid	H51022

Custody Information

Relinquished By: KD
Review/Received By:
Date of Transfer: 4/14/10

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

PrepSheet Generator 1.27, updated 3/24/2009

METALS SAMPLE AND QC SUMMARY RESULTS

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLM **Client ID:** RE12-10-15449

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	**27**	**9.9**	**30.0**	**21.8**	**J**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Antimony	123	1.1	5.0	1.1	U	1	ICPMS	4/13/2010	1:45
Arsenic	75	1.6	10.0	1.6	U	1	ICPMS	4/13/2010	1:45
Barium	135	0.52	2.0	0.52	U	1	ICPMS	4/13/2010	1:45
Beryllium	9	0.13	0.50	0.13	U	1	ICPMS	4/13/2010	1:45
Cadmium	111	0.16	0.50	0.16	U	1	ICPMS	4/13/2010	1:45
Calcium	44	48.7	100	48.7	U	1	ICPMS	4/13/2010	23:50
Chromium	52	3.3	10.0	3.3	U	1	ICPMS	4/13/2010	1:45
Cobalt	59	0.24	2.0	0.24	U	1	ICPMS	4/13/2010	1:45
Copper	**65**	**0.47**	**1.0**	**1.6**		**1**	**ICPMS**	**4/13/2010**	**1:45**
Iron	57	20.4	50.0	20.4	U	1	ICPMS	4/13/2010	1:45
Lead	208	0.49	3.0	0.49	U	1	ICPMS	4/13/2010	1:45
Magnesium	**24**	**3.1**	**50.0**	**9.6**	**J**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Manganese	55	0.60	2.0	0.60	U	1	ICPMS	4/13/2010	1:45
Nickel	60	0.49	5.0	0.49	U	1	ICPMS	4/13/2010	1:45
Potassium	**39**	**11.6**	**100**	**265**	**E**	**1**	**ICPMS**	**4/13/2010**	**1:45**
Selenium	82	0.48	5.0	0.48	U	1	ICPMS	4/13/2010	1:45
Silver	107	0.20	2.0	0.20	U	1	ICPMS	4/13/2010	1:45
Sodium	**23**	**6.9**	**50.0**	**177**		**1**	**ICPMS**	**4/13/2010**	**1:45**
Thallium	**205**	**0.60**	**2.0**	**0.88**	**J**	**1**	**ICPMS**	**4/13/2010**	**23:50**
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	4/13/2010	1:45
Vanadium	51	3.0	10.0	3.0	U	1	ICPMS	4/13/2010	1:45
Zinc	66	3.7	10.0	3.7	U*	1	ICPMS	4/13/2010	23:50

Comments: Lot #: F0D080495 Sample #: 8

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Results **SDG:** Test

Lab Sample ID: LXNLM **Client ID:** RE12-10-15449

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.12	J	1	CVAA	4/14/2010	18:51

Comments: Lot #: F0D080495 Sample #: 8

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 1 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: CVAA

Units: ug/L

Chart Number: AA0414F.PRN

Acceptable Range: 90% - 110%

Standard Source: Leeman

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/14/2010 5:55 PM														
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Mercury	253.7	2.5	2.52		100.8												

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041210M1.REP

Acceptable Range: 90% - 110%

Standard Source: INORGANIC VENTURES

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/12/2010 11:35 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	4000.0	3837.48		**95.9**												
Antimony	123	500.0	525.22		**105.0**												
Arsenic	75	1000.0	949.86		**95.0**												
Barium	135	1000.0	986.34		**98.6**												
Beryllium	9	1000.0	965.27		**96.5**												
Cadmium	111	1000.0	1008.64		**100.9**												
Chromium	52	1000.0	972.32		**97.2**												
Cobalt	59	1000.0	1007.30		**100.7**												
Copper	65	1000.0	978.81		**97.9**												
Iron	57	4000.0	4067.89		**101.7**												
Lead	208	1000.0	984.94		**98.5**												
Magnesium	24	4000.0	3916.07		**97.9**												
Manganese	55	1000.0	979.84		**98.0**												
Nickel	60	1000.0	948.67		**94.9**												
Potassium	39	4000.0	3910.82		**97.8**												
Selenium	82	1000.0	965.55		**96.6**												
Silver	107	200.0	196.67		**98.3**												
Sodium	23	4000.0	3816.37		**95.4**												
Uranium	238	1000.0	1017.72		**101.8**												
Vanadium	51	1000.0	953.35		**95.3**												

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310M1.REP

Acceptable Range: 90% - 110%

Standard Source: INORGANIC VENTURES

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 4/13/2010 8:57 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Calcium	44	4000.0	4212.27		**105.3**												
Thallium	205	1000.0	1052.50		**105.3**												
Zinc	66	1000.0	987.03		**98.7**												

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: CVAA

Units: ug/L

Chart Number: AA0414F.PRN

Acceptable Range: 80% - 120%

Standard Source: Leeman

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/14/2010 6:27 PM			CCV 4/14/2010 6:56 PM											
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Mercury	253.7	5.0	5.17		103.4	5.18		103.6									

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041210M1.REP

Acceptable Range: 90% - 110%

Standard Source: INORGANIC VENTURES

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/13/2010 12:02 AM			CCV 4/13/2010 12:26 AM			CCV 4/13/2010 1:21 AM			CCV 4/13/2010 2:16 AM					
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	4000.0	3942.79		**98.6**	3955.94		**98.9**	3975.82		**99.4**	3844.83		**96.1**			
Antimony	123	500.0	509.39		**101.9**	529.09		**105.8**	511.17		**102.2**	502.83		**100.6**			
Arsenic	75	1000.0	958.16		**95.8**	977.65		**97.8**	975.60		**97.6**	963.63		**96.4**			
Barium	135	1000.0	991.45		**99.1**	1001.75		**100.2**	1018.80		**101.9**	973.77		**97.4**			
Beryllium	9	1000.0	996.68		**99.7**	1002.03		**100.2**	1034.69		**103.5**	1017.85		**101.8**			
Cadmium	111	1000.0	1000.06		**100.0**	1025.75		**102.6**	998.55		**99.9**	976.02		**97.6**			
Chromium	52	1000.0	957.78		**95.8**	975.96		**97.6**	980.66		**98.1**	935.02		**93.5**			
Cobalt	59	1000.0	969.25		**96.9**	980.85		**98.1**	1008.66		**100.9**	939.12		**93.9**			
Copper	65	1000.0	976.31		**97.6**	986.67		**98.7**	973.17		**97.3**	953.76		**95.4**			
Iron	57	8000.0	7942.71		**99.3**	7989.62		**99.9**	7999.15		**100.0**	7703.89		**96.3**			
Lead	208	1000.0	995.06		**99.5**	1014.27		**101.4**	989.90		**99.0**	1022.77		**102.3**			
Magnesium	24	8000.0	7809.08		**97.6**	7890.07		**98.6**	7853.97		**98.2**	7606.27		**95.1**			
Manganese	55	1000.0	972.88		**97.3**	979.20		**97.9**	997.29		**99.7**	939.95		**94.0**			
Nickel	60	1000.0	959.95		**96.0**	963.81		**96.4**	975.17		**97.5**	923.93		**92.4**			
Potassium	39	4000.0	3876.09		**96.9**	3964.63		**99.1**	4018.19		**100.5**	3866.52		**96.7**			
Selenium	82	1000.0	980.67		**98.1**	1011.76		**101.2**	1001.13		**100.1**	987.45		**98.7**			
Silver	107	200.0	191.10		**95.6**	195.48		**97.7**	195.34		**97.7**	189.24		**94.6**			
Sodium	23	4000.0	3858.10		**96.5**	3838.16		**96.0**	3914.14		**97.9**	3710.54		**92.8**			
Uranium	238	1000.0	1008.80		**100.9**	1012.14		**101.2**	1008.61		**100.9**	1014.67		**101.5**			
Vanadium	51	1000.0	950.09		**95.0**	977.44		**97.7**	964.13		**96.4**	939.69		**94.0**			

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310M1.REP

Acceptable Range: 90% - 110%

Standard Source: INORGANIC VENTURES

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 4/13/2010 9:21 PM			CCV 4/13/2010 10:00 PM			CCV 4/13/2010 10:47 PM			CCV 4/13/2010 11:33 PM			CCV 4/14/2010 12:20 AM		
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Calcium	44	8000.0	7967.19		**99.6**	8064.30		**100.8**	7850.58		**98.1**	8106.15		**101.3**	7919.45		**99.0**
Thallium	205	1000.0	1009.38		**100.9**	987.86		**98.8**	1021.67		**102.2**	1033.66		**103.4**	1043.22		**104.3**
Zinc	66	1000.0	991.85		**99.2**	961.71		**96.2**	974.42		**97.4**	990.36		**99.0**	978.49		**97.8**

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041210M1.REP

Acceptable Range: 70% - 130%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CRI 4/12/2010 11:45 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	30.0	35.12		**117.1**												
Antimony	123	5.0	4.34		**86.8**												
Arsenic	75	10.0	10.67		**106.7**												
Barium	135	2.0	2.11		**105.7**												
Beryllium	9	0.5	0.47		**94.1**												
Cadmium	111	0.5	0.48		**95.7**												
Chromium	52	10.0	10.68		**106.8**												
Cobalt	59	2.0	2.30		**114.9**												
Copper	65	1.0	1.06		**105.5**												
Iron	57	50.0	52.63		**105.3**												
Lead	208	3.0	3.15		**105.0**												
Magnesium	24	50.0	59.05		**118.1**												
Manganese	55	2.0	2.27		**113.4**												
Nickel	60	5.0	5.53		**110.7**												
Potassium	39	100.0	111.58		**111.6**												
Selenium	82	5.0	4.47		**89.3**												
Silver	107	2.0	2.10		**105.1**												
Sodium	23	50.0	59.34		**118.7**												
Uranium	238	1.0	1.01		**101.1**												
Vanadium	51	10.0	11.01		**110.1**												

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310M1.REP

Acceptable Range: 70% - 130%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	CRI 4/13/2010 9:06 PM														
			Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Calcium	44	100.0	109.16		**109.2**												
Thallium	205	2.0	2.17		**108.5**												
Zinc	66	5.0	6.20		**124.0**												

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: CVAA **Units:** ug/L

Chart Number: AA0414F.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/14/2010 5:58 PM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U								

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041210M1.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/12/2010 11:40 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	30	9.9	U								
Antimony	123	5	1.1	U								
Arsenic	75	10	1.6	U								
Barium	135	2	0.52	U								
Beryllium	9	0.5	**0.3**	**J**								
Cadmium	111	0.5	**0.31**	**J**								
Chromium	52	10	3.3	U								
Cobalt	59	2	**0.33**	**J**								
Copper	65	1	0.47	U								
Iron	57	50	20.4	U								
Lead	208	3	0.49	U								
Magnesium	24	50	3.1	U								
Manganese	55	2	0.6	U								
Nickel	60	5	0.49	U								
Potassium	39	100	11.6	U								
Selenium	82	5	0.48	U								
Silver	107	2	0.2	U								
Sodium	23	50	6.9	U								
Uranium	238	1	**0.38**	**J**								
Vanadium	51	10	3	U								

U Result is less than the IDL
J Result is between IDL and RL

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310M1.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 4/13/2010 9:01 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Calcium	44	100	48.7	U								
Thallium	205	2	**1.7**	**J**								
Zinc	66	10	3.7	U								

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: CVAA **Units:** ug/L

Chart Number: AA0414F.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/14/2010 6:29 PM		CCB 4/14/2010 6:59 PM							
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U						

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041210M1.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/13/2010 12:07 AM		CCB 4/13/2010 12:31 AM		CCB 4/13/2010 1:26 AM		CCB 4/13/2010 2:21 AM			
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	30	9.9	U	9.9	U	9.9	U	9.9	U		
Antimony	123	5	**2.1**	**J**	**3.7**	**J**	**2.5**	**J**	**2.2**	**J**		
Arsenic	75	10	1.6	U	1.6	U	1.6	U	1.6	U		
Barium	135	2	0.52	U	0.52	U	0.52	U	0.52	U		
Beryllium	9	0.5	**0.34**	**J**	**0.4**	**J**	**0.54**		**0.38**	**J**		
Cadmium	111	0.5	**0.32**	**J**	**0.45**	**J**	**0.49**	**J**	**0.32**	**J**		
Chromium	52	10	3.3	U	3.3	U	3.3	U	3.3	U		
Cobalt	59	2	**0.35**	**J**	**0.44**	**J**	**0.51**	**J**	**0.32**	**J**		
Copper	65	1	0.47	U	0.47	U	**0.51**	**J**	0.47	U		
Iron	57	50	20.4	U	20.4	U	20.4	U	20.4	U		
Lead	208	3	0.49	U	**0.52**	**J**	**0.54**	**J**	0.49	U		
Magnesium	24	50	**4.2**	**J**	3.1	U	**4.7**	**J**	**4**	**J**		
Manganese	55	2	0.6	U	0.6	U	0.6	U	0.6	U		
Nickel	60	5	0.49	U	0.49	U	0.49	U	0.49	U		
Potassium	39	100	11.6	U	11.6	U	11.6	U	**15.5**	**J**		
Selenium	82	5	**0.49**	**J**	**0.62**	**J**	**0.96**	**J**	0.48	U		
Silver	107	2	0.2	U	0.2	U	0.2	U	0.2	U		
Sodium	23	50	6.9	U	6.9	U	6.9	U	6.9	U		
Uranium	238	1	**0.39**	**J**	**0.52**	**J**	**0.57**	**J**	**0.4**	**J**		
Vanadium	51	10	3	U	3	U	3	U	3	U		

U Result is less than the IDL

J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Chart Number: 041310M1.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 4/13/2010 9:25 PM		CCB 4/13/2010 10:04 PM		CCB 4/13/2010 10:51 PM		CCB 4/13/2010 11:38 PM		CCB 4/14/2010 12:24 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Calcium	44	100	48.7	U	48.7	U	48.7	U	48.7	U	48.7	U
Thallium	205	2	**1.9**	**J**	**1.8**	**J**	**2.4**		**2.2**		**2.8**	
Zinc	66	10	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U

U Result is less than the IDL
J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Preparation Blank Results **SDG:** Test

Lab Sample ID: LXRAEB

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	9.9	30.0	9.9	U	1	ICPMS	4/13/2010	0:54
Antimony	123	1.1	5.0	1.1	U	1	ICPMS	4/13/2010	0:54
Arsenic	75	1.6	10.0	1.6	U	1	ICPMS	4/13/2010	0:54
Barium	135	0.52	2.0	0.52	U	1	ICPMS	4/13/2010	0:54
Beryllium	9	0.13	0.50	-0.13	J	1	ICPMS	4/13/2010	0:54
Cadmium	111	0.16	0.50	0.16	U	1	ICPMS	4/13/2010	0:54
Calcium	44	48.7	100	48.7	U	1	ICPMS	4/13/2010	23:07
Chromium	52	3.3	10.0	3.3	U	1	ICPMS	4/13/2010	0:54
Cobalt	59	0.24	2.0	0.24	U	1	ICPMS	4/13/2010	0:54
Copper	65	0.47	1.0	0.47	U	1	ICPMS	4/13/2010	0:54
Iron	**57**	**20.4**	**50.0**	**20.5**	**J**	**1**	**ICPMS**	**4/13/2010**	**0:54**
Lead	208	0.49	3.0	0.49	U	1	ICPMS	4/13/2010	0:54
Magnesium	24	3.1	50.0	3.1	U	1	ICPMS	4/13/2010	0:54
Manganese	55	0.60	2.0	0.60	U	1	ICPMS	4/13/2010	0:54
Nickel	60	0.49	5.0	0.49	U	1	ICPMS	4/13/2010	0:54
Potassium	39	11.6	100	11.6	U	1	ICPMS	4/13/2010	0:54
Selenium	82	0.48	5.0	0.48	U	1	ICPMS	4/13/2010	0:54
Silver	107	0.20	2.0	0.20	U	1	ICPMS	4/13/2010	0:54
Sodium	**23**	**6.9**	**50.0**	**22.6**	**J**	**1**	**ICPMS**	**4/13/2010**	**0:54**
Thallium	**205**	**0.60**	**2.0**	**2.0**	**J**	**1**	**ICPMS**	**4/13/2010**	**23:07**
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	4/13/2010	0:54
Vanadium	51	3.0	10.0	3.0	U	1	ICPMS	4/13/2010	0:54
Zinc	66	3.7	10.0	3.7	U	1	ICPMS	4/13/2010	23:07

Comments: Lot #: F0D030451

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Preparation Blank Results **SDG:** Test

Lab Sample ID: LXTVRB

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	4/14/2010	18:10

Comments: Lot #: F0C230560

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 3 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard A

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041210M1.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	Rpting Limit	True Conc	ICSA 4/12/2010 11:50 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27		10000	10400									
Antimony	123	5		-0.380	U								
Arsenic	75	10		0.620	U								
Barium	135	2		-0.066	U								
Beryllium	9	0.5		-0.100	U								
Cadmium	111	0.5		0.170	J								
Chromium	52	10		-0.170	U								
Cobalt	59	2		-0.096	U								
Copper	65	1		0.180	U								
Iron	57		10000	10300									
Lead	208	3		-0.110	U								
Magnesium	24		10000	10200									
Manganese	55	2		-0.079	U								
Nickel	60	5		0.220	U								
Potassium	39		10000	10300									
Selenium	82	5		0.079	U								
Silver	107	2		-0.010	U								
Sodium	23		10000	10100									
Uranium	238	1		-0.130	U								
Vanadium	51	10		0.180	U								

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard A

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310M1.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	Rpting Limit	True Conc	ICSA 4/13/2010 9:10 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Calcium	44		10000	9350									
Thallium	205	2		-0.150	U								
Zinc	66	10		1	U								

U Result is less than the IDL

J Result is between IDL and RL

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard AB

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041210M1.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 4/12/2010 11:55 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Aluminum	27	10000.0	10467.5		**104.7**												
Antimony	123	50.0	51.9		**103.7**												
Arsenic	75	100.0	104.2		**104.2**												
Barium	135	100.0	104.7		**104.7**												
Beryllium	9	100.0	103.8		**103.8**												
Cadmium	111	100.0	102.8		**102.8**												
Chromium	52	100.0	108.0		**108.0**												
Cobalt	59	100.0	109.8		**109.8**												
Copper	65	100.0	101.8		**101.8**												
Iron	57	10000.0	10556.3		**105.6**												
Lead	208	100.0	102.3		**102.3**												
Magnesium	24	10000.0	10522.9		**105.2**												
Manganese	55	100.0	110.1		**110.1**												
Nickel	60	100.0	106.8		**106.8**												
Potassium	39	10000.0	10217.5		**102.2**												
Selenium	82	100.0	102.7		**102.7**												
Silver	107	20.0	20.0		**100.0**												
Sodium	23	10000.0	10500.4		**105.0**												
Uranium	238	100.0	101.7		**101.7**												
Vanadium	51	100.0	113.1		**113.1**												

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard AB

SDG: Test

Instrument: ICPMS

Units: ug/L

Chart Number: 041310M1.REP

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 4/13/2010 9:14 PM Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec	Found	Q	% Rec
Calcium	44	10000.0	9806.6		**98.1**												
Thallium	205	100.0	99.0		**99.0**												
Zinc	66	100.0	101.6		**101.6**												

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed

Form 4 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** Test

Spike Sample ID: LXHVES

Original Sample ID: LXHVE **Client ID:** WST16-10-13308 S

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	27	9.9	U	9520		10000	95.2	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Antimony	123	1.1	U	504		500	100.9	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Arsenic	75	1.6	U	915		1000	91.5	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Barium	135	0.52	U	997		1000	99.7	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Beryllium	9	0.13	U	947		1000	94.7	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Cadmium	111	0.16	U	979		1000	97.9	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Calcium	44	52.9	J	9590		10000	95.4	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:26
Chromium	52	3.3	U	954		1000	95.4	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Cobalt	59	0.24	U	974		1000	97.4	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Copper	65	7.6		938		1000	93.1	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Iron	57	20.4	U	9840		10000	98.4	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Lead	208	0.49	U	1020		1000	102.4	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Magnesium	24	3.7	J	9470		10000	94.7	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Manganese	55	0.60	U	949		1000	94.9	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Nickel	60	0.49	U	926		1000	92.6	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Potassium	39	168		9940		10000	97.8	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Selenium	82	0.95	J	886		1000	88.5	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Silver	107	0.20	U	101		100	101.0	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Sodium	23	116		9450		10000	93.3	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Thallium	205	1.8	J	1110		1000	110.8	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:26
Uranium	238	0.21	U	1070		1000	107.0	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Vanadium	51	3.0	U	966		1000	96.6	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:16
Zinc	66	11.1		876		1000	86.5	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:26

Comments: Lot #: F0D030450 Sample #: 1

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** Test

Spike Sample ID: LXHVLS

Original Sample ID: LXHVL **Client ID:** RE16-10-14034 S

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Antimony	123	1.1	U	101		100	100.6	1	1	ICPMS	4/13/2010	1:36	4/13/2010	1:40
Arsenic	75	1.6	U	40.2		40	100.4	1	1	ICPMS	4/13/2010	1:36	4/13/2010	1:40
Cadmium	111	0.16	U	4.9		5	97.6	1	1	ICPMS	4/13/2010	1:36	4/13/2010	1:40
Lead	208	0.49	U	22.0		20	109.8	1	1	ICPMS	4/13/2010	1:36	4/13/2010	1:40
Selenium	82	0.71	J	9.0		10	82.6	1	1	ICPMS	4/13/2010	1:36	4/13/2010	1:40
Thallium	205	0.71	J	54.2		50	106.9	1	1	ICPMS	4/13/2010	23:42	4/13/2010	23:46

Comments: Lot #: F0D030451 Sample #: 4

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** Test

Spike Sample ID: LW10XS

Original Sample ID: LW10X **Client ID:** RE46-10-13067 S

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.11	J	1.2		1	107.6	1	1	CVAA	4/14/2010	18:15	4/14/2010	18:24

Comments: Lot #: F0C230560 Sample #: 5

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** Test

Duplicate Sample ID: LXHVEX

Original Sample ID: LXHVE **Client ID:** WST16-10-13308 X

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Aluminum	27	9.9	U	9.9	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Antimony	123	1.1	U	1.1	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Arsenic	75	1.6	U	1.6	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Barium	135	0.52	U	0.52	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Beryllium	9	0.13	U	0.13	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Cadmium	111	0.16	U	0.16	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Calcium	44	52.9	J	48.7	U	200.0	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:22
Chromium	52	3.3	U	3.3	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Cobalt	59	0.24	U	0.24	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Copper	65	7.6		7.1		6.3	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Iron	57	20.4	U	20.4	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Lead	208	0.49	U	0.49	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Magnesium	24	3.7	J	3.1	U	200.0	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Manganese	55	0.60	U	0.60	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Nickel	60	0.49	U	0.49	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Potassium	39	168	E	149		11.6	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Selenium	82	0.95	J	0.48	U	200.0	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Silver	107	0.20	U	0.20	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Sodium	23	116		108		6.7	1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Thallium	205	1.8	J	0.60	U	200.0	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:22
Uranium	238	0.21	U	0.21	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Vanadium	51	3.0	U	3.0	U		1	1	ICPMS	4/13/2010	1:03	4/13/2010	1:12
Zinc	66	11.1		7.6	J*	37.3	1	1	ICPMS	4/13/2010	23:14	4/13/2010	23:22

U Result is less than the IDL
J Result is between IDL and RL
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** Test

Duplicate Sample ID: LW10XX

Original Sample ID: LW10X **Client ID:** RE46-10-13067 X

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Mercury	253.7	0.11	J	0.098	J	15.1	1	1	CVAA	4/14/2010	18:15	4/14/2010	18:21

U Result is less than the IDL
J Result is between IDL and RL
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** Test

Lab Sample ID: LXRAEC

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	27	10000	9490	94.9		80-120	1	ICPMS	4/13/2010	0:58
Antimony	123	500	476	95.1		80-120	1	ICPMS	4/13/2010	0:58
Arsenic	75	1000	870	87.0		80-120	1	ICPMS	4/13/2010	0:58
Barium	135	1000	922	92.2		80-120	1	ICPMS	4/13/2010	0:58
Beryllium	9	1000	907	90.7		80-120	1	ICPMS	4/13/2010	0:58
Cadmium	111	1000	904	90.4		80-120	1	ICPMS	4/13/2010	0:58
Calcium	44	10000	9980	99.8		80-120	1	ICPMS	4/13/2010	23:11
Chromium	52	1000	926	92.6		80-120	1	ICPMS	4/13/2010	0:58
Cobalt	59	1000	961	96.1		80-120	1	ICPMS	4/13/2010	0:58
Copper	65	1000	880	88.0		80-120	1	ICPMS	4/13/2010	0:58
Iron	57	10000	9730	97.3		80-120	1	ICPMS	4/13/2010	0:58
Lead	208	1000	936	93.6		80-120	1	ICPMS	4/13/2010	0:58
Magnesium	24	10000	9430	94.3		80-120	1	ICPMS	4/13/2010	0:58
Manganese	55	1000	939	93.9		80-120	1	ICPMS	4/13/2010	0:58
Nickel	60	1000	928	92.8		80-120	1	ICPMS	4/13/2010	0:58
Potassium	39	10000	9750	97.5		80-120	1	ICPMS	4/13/2010	0:58
Selenium	82	1000	863	86.3		80-120	1	ICPMS	4/13/2010	0:58
Silver	107	100	95.0	95.0		80-120	1	ICPMS	4/13/2010	0:58
Sodium	23	10000	9360	93.6		80-120	1	ICPMS	4/13/2010	0:58
Thallium	205	1000	1060	105.8		80-120	1	ICPMS	4/13/2010	23:11
Uranium	238	1000	971	97.1		80-120	1	ICPMS	4/13/2010	0:58
Vanadium	51	1000	929	92.9		80-120	1	ICPMS	4/13/2010	0:58
Zinc	66	1000	885	88.5		80-120	1	ICPMS	4/13/2010	23:11

Comments: Lot #: F0D030451

U Result is less than the IDL

J Result is between IDL and RL

Form 7 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** Test

Lab Sample ID: LXTVRC

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	1.0	1.1	112.0		80-120	1	CVAA	4/14/2010	18:13

Comments: Lot #: F0C230560

5.24.0

U Result is less than the IDL

J Result is between IDL and RL

Form 7 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** Test

Serial Dilution Sample ID: LXHVEV

Original Sample ID: LXHVE **Client ID:** WST16-10-13308 V

Matrix: Water **Units:** ug/L **Prep Date:** 4/9/2010 **Prep Batch:** 0099286

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	27	9.9	U	49.5	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Antimony	123	1.1	U	5.6	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Arsenic	75	1.6	U	7.8	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Barium	135	0.52	U	2.6	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Beryllium	9	0.13	U	0.64	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Cadmium	111	0.16	U	0.78	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Calcium	44	52.9	J	244	U		1	5	ICPMS	4/13/2010	23:14	4/13/2010	23:18
Chromium	52	3.3	U	16.3	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Cobalt	59	0.24	U	1.2	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Copper	65	7.6		7.1		5.7	1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Iron	57	20.4	U	102	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Lead	208	0.49	U	2.5	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Magnesium	24	3.7	J	15.3	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Manganese	55	0.60	U	3.0	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Nickel	60	0.49	U	2.4	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Potassium	39	168		191	JE	14.2	1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Selenium	82	0.95	J	2.4	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Silver	107	0.20	U	1.0	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Sodium	23	116		126	J	8.9	1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Thallium	205	1.8	J	3.0	U		1	5	ICPMS	4/13/2010	23:14	4/13/2010	23:18
Uranium	238	0.21	U	1.0	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Vanadium	51	3.0	U	15.0	U		1	5	ICPMS	4/13/2010	1:03	4/13/2010	1:07
Zinc	66	11.1		18.7	U		1	5	ICPMS	4/13/2010	23:14	4/13/2010	23:18

Comments: 5

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** Test

Serial Dilution Sample ID: LW10XV

Original Sample ID: LW10X **Client ID:** RE46-10-13067 V

Matrix: Water **Units:** ug/L **Prep Date:** 4/14/2010 **Prep Batch:** 0102136

Weight: 30 **Volume:** 30 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Mercury	253.7	0.11	J	0.46	U		1	5	CVAA	4/14/2010	18:15	4/14/2010	18:19

Comments:

5.24.0

U Result is less than the IDL
J Result is between IDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Detection Limits **SDG:** Test

Instrument: CVAA **Units:** ug/L

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Mercury	253.700	0.2	0.093	12/11/2009

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Detection Limits **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Mass	Reporting Limit	MDL	Date of MDL
Aluminum	27	30.0	9.9	2/17/2010
Antimony	123	5.0	1.1	2/17/2010
Arsenic	75	10.0	1.6	2/17/2010
Barium	135	2.0	0.52	2/17/2010
Beryllium	9	0.5	0.13	2/17/2010
Cadmium	111	0.5	0.16	2/17/2010
Calcium	44	100.0	48.7	2/17/2010
Chromium	52	10.0	3.3	2/17/2010
Cobalt	59	2.0	0.24	2/17/2010
Copper	65	1.0	0.47	2/17/2010
Iron	57	50.0	20.4	2/17/2010
Lead	208	3.0	0.49	2/17/2010
Magnesium	24	50.0	3.1	2/17/2010
Manganese	55	2.0	0.60	2/17/2010
Nickel	60	5.0	0.49	2/17/2010
Potassium	39	100.0	11.6	2/17/2010
Selenium	82	5.0	0.48	2/17/2010
Silver	107	2.0	0.20	2/17/2010
Sodium	23	50.0	6.9	2/17/2010
Thallium	205	2.0	0.60	2/17/2010
Uranium	238	1.0	0.21	2/17/2010
Vanadium	51	10.0	3.0	2/17/2010
Zinc	66	10.0	3.7	2/17/2010

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** Test

Instrument: CVAA **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	3/9/2010

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** Test

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	50000	4/12/2010
Antimony	123.00	1000	4/12/2010
Arsenic	75.00	2000	4/12/2010
Barium	135.00	2000	4/12/2010
Beryllium	9.00	2000	4/12/2010
Cadmium	111.00	2000	4/12/2010
Calcium	44.00	200000	4/13/2010
Chromium	52.00	2000	4/12/2010
Cobalt	59.00	2000	4/12/2010
Copper	65.00	2000	4/12/2010
Iron	57.00	200000	4/12/2010
Lead	208.00	2000	4/12/2010
Magnesium	24.00	200000	4/12/2010
Manganese	55.00	2000	4/12/2010
Nickel	60.00	2000	4/12/2010
Potassium	39.00	50000	4/12/2010
Selenium	82.00	2000	4/12/2010
Silver	107.00	4000	4/12/2010
Sodium	23.00	50000	4/12/2010
Thallium	205.00	2000	4/13/2010
Uranium	238.00	2000	4/12/2010
Vanadium	51.00	2000	4/12/2010
Zinc	66.00	2000	4/13/2010

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Preparation Log

SDG: Test

Preparation Batch: 0099286 **Instrument:** ICPMS **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
LXRAEB	4/9/2010	50	50	NA
LXRAEC	4/9/2010	50	50	NA
LXHVE	4/9/2010	50	50	NA
LXHVES	4/9/2010	50	50	NA
LXHVEX	4/9/2010	50	50	NA
LXHVL	4/9/2010	50	50	NA
LXHVLS	4/9/2010	50	50	NA
LXNLM	4/9/2010	50	50	NA

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Preparation Log **SDG:** Test

Preparation Batch: 0102136 **Instrument:** CVAA **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
LXTVRB	4/14/2010	30	30	NA
LXTVRC	4/14/2010	30	30	NA
LW10X	4/14/2010	30	30	NA
LW10XS	4/14/2010	30	30	NA
LW10XX	4/14/2010	30	30	NA
LXNLM	4/14/2010	30	30	NA

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: CVAA **Chart Number:** AA0414F.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std01Rep1		4/14/2010	17:40
Std02Rep1		4/14/2010	17:43
Std03Rep1		4/14/2010	17:45
Std04Rep1		4/14/2010	17:48
Std05Rep1		4/14/2010	17:50
Std06Rep1		4/14/2010	17:53
ICV		4/14/2010	17:55
ICB		4/14/2010	17:58
ZZZZZZ		4/14/2010	18:01
ZZZZZZ		4/14/2010	18:03
ZZZZZZ		4/14/2010	18:06
ZZZZZZ		4/14/2010	18:08
LXTVRB		4/14/2010	18:10
LXTVRC		4/14/2010	18:13
LW10X	RE46-10-13067	4/14/2010	18:15
LW10XV	RE46-10-13067 V	4/14/2010	18:19
LW10XX	RE46-10-13067 X	4/14/2010	18:21
LW10XS	RE46-10-13067 S	4/14/2010	18:24
CCV		4/14/2010	18:27
CCB		4/14/2010	18:29
ZZZZZZ		4/14/2010	18:32
ZZZZZZ		4/14/2010	18:34
ZZZZZZ		4/14/2010	18:37
ZZZZZZ		4/14/2010	18:39
ZZZZZZ		4/14/2010	18:42
ZZZZZZ		4/14/2010	18:44
ZZZZZZ		4/14/2010	18:47
ZZZZZZ		4/14/2010	18:49
LXNLM	RE12-10-15449	4/14/2010	18:51
ZZZZZZ		4/14/2010	18:54
CCV		4/14/2010	18:56
CCB		4/14/2010	18:59
ZZZZZZ		4/14/2010	19:01
ZZZZZZ		4/14/2010	19:04
ZZZZZZ		4/14/2010	19:06
ZZZZZZ		4/14/2010	19:09
ZZZZZZ		4/14/2010	19:11
ZZZZZZ		4/14/2010	19:14
ZZZZZZ		4/14/2010	19:16

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: CVAA **Chart Number:** AA0414F.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	19:19
ZZZZZZ		4/14/2010	19:21
ZZZZZZ		4/14/2010	19:24
ZZZZZZ		4/14/2010	19:26
ZZZZZZ		4/14/2010	19:29
ZZZZZZ		4/14/2010	19:32
ZZZZZZ		4/14/2010	19:34
ZZZZZZ		4/14/2010	19:37
ZZZZZZ		4/14/2010	19:39
ZZZZZZ		4/14/2010	19:42
ZZZZZZ		4/14/2010	19:44
ZZZZZZ		4/14/2010	19:48
ZZZZZZ		4/14/2010	19:50
ZZZZZZ		4/14/2010	19:53
ZZZZZZ		4/14/2010	19:55
ZZZZZZ		4/14/2010	19:58
ZZZZZZ		4/14/2010	20:00
ZZZZZZ		4/14/2010	20:03
ZZZZZZ		4/14/2010	20:05
ZZZZZZ		4/14/2010	20:08
ZZZZZZ		4/14/2010	20:11
ZZZZZZ		4/14/2010	20:13
ZZZZZZ		4/14/2010	20:16
ZZZZZZ		4/14/2010	20:18
ZZZZZZ		4/14/2010	20:21
ZZZZZZ		4/14/2010	20:23
ZZZZZZ		4/14/2010	20:26
ZZZZZZ		4/14/2010	20:28
ZZZZZZ		4/14/2010	20:31
ZZZZZZ		4/14/2010	20:33
ZZZZZZ		4/14/2010	20:36
ZZZZZZ		4/14/2010	20:38
ZZZZZZ		4/14/2010	20:41
ZZZZZZ		4/14/2010	20:43
ZZZZZZ		4/14/2010	20:46
ZZZZZZ		4/14/2010	20:48
ZZZZZZ		4/14/2010	20:51
ZZZZZZ		4/14/2010	20:53
ZZZZZZ		4/14/2010	20:56

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

SDG: Test

Instrument: CVAA

Chart Number: AA0414F.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	20:58
ZZZZZZ		4/14/2010	21:01
ZZZZZZ		4/14/2010	21:04
ZZZZZZ		4/14/2010	21:06
ZZZZZZ		4/14/2010	21:09
ZZZZZZ		4/14/2010	21:11
ZZZZZZ		4/14/2010	21:14

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/12/2010	17:00
ZZZZZZ		4/12/2010	17:05
ZZZZZZ		4/12/2010	17:09
ZZZZZZ		4/12/2010	17:13
ZZZZZZ		4/12/2010	17:18
ZZZZZZ		4/12/2010	17:22
ZZZZZZ		4/12/2010	17:26
ZZZZZZ		4/12/2010	17:31
ZZZZZZ		4/12/2010	17:35
ZZZZZZ		4/12/2010	17:41
ZZZZZZ		4/12/2010	17:45
ZZZZZZ		4/12/2010	17:50
ZZZZZZ		4/12/2010	17:54
ZZZZZZ		4/12/2010	17:57
ZZZZZZ		4/12/2010	18:01
ZZZZZZ		4/12/2010	18:05
ZZZZZZ		4/12/2010	18:14
ZZZZZZ		4/12/2010	18:18
ZZZZZZ		4/12/2010	18:21
ZZZZZZ		4/12/2010	18:25
ZZZZZZ		4/12/2010	18:29
ZZZZZZ		4/12/2010	18:33
ZZZZZZ		4/12/2010	18:37
ZZZZZZ		4/12/2010	18:41
ZZZZZZ		4/12/2010	18:44
ZZZZZZ		4/12/2010	18:48
ZZZZZZ		4/12/2010	18:52
ZZZZZZ		4/12/2010	18:56
ZZZZZZ		4/12/2010	19:01
ZZZZZZ		4/12/2010	19:04
ZZZZZZ		4/12/2010	19:08
ZZZZZZ		4/12/2010	19:12
ZZZZZZ		4/12/2010	19:16
ZZZZZZ		4/12/2010	19:20
ZZZZZZ		4/12/2010	19:23
ZZZZZZ		4/12/2010	19:27
ZZZZZZ		4/12/2010	19:31
ZZZZZZ		4/12/2010	19:35
ZZZZZZ		4/12/2010	19:39

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/12/2010	19:43
ZZZZZZ		4/12/2010	19:47
ZZZZZZ		4/12/2010	19:51
ZZZZZZ		4/12/2010	19:55
ZZZZZZ		4/12/2010	19:59
ZZZZZZ		4/12/2010	20:03
ZZZZZZ		4/12/2010	20:06
ZZZZZZ		4/12/2010	20:10
ZZZZZZ		4/12/2010	20:14
ZZZZZZ		4/12/2010	20:18
ZZZZZZ		4/12/2010	20:22
ZZZZZZ		4/12/2010	20:25
ZZZZZZ		4/12/2010	20:30
ZZZZZZ		4/12/2010	20:34
ZZZZZZ		4/12/2010	20:38
ZZZZZZ		4/12/2010	20:42
ZZZZZZ		4/12/2010	20:45
ZZZZZZ		4/12/2010	20:49
ZZZZZZ		4/12/2010	20:53
ZZZZZZ		4/12/2010	20:57
ZZZZZZ		4/12/2010	21:01
ZZZZZZ		4/12/2010	21:04
ZZZZZZ		4/12/2010	21:08
ZZZZZZ		4/12/2010	21:12
ZZZZZZ		4/12/2010	21:16
ZZZZZZ		4/12/2010	21:21
ZZZZZZ		4/12/2010	21:24
ZZZZZZ		4/12/2010	21:28
ZZZZZZ		4/12/2010	21:32
ZZZZZZ		4/12/2010	21:37
ZZZZZZ		4/12/2010	21:41
ZZZZZZ		4/12/2010	21:45
ZZZZZZ		4/12/2010	21:49
ZZZZZZ		4/12/2010	21:52
ZZZZZZ		4/12/2010	21:56
ZZZZZZ		4/12/2010	22:00
ZZZZZZ		4/12/2010	22:04
ZZZZZZ		4/12/2010	22:08
ZZZZZZ		4/12/2010	22:14

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/12/2010	22:18
ZZZZZZ		4/12/2010	22:22
ZZZZZZ		4/12/2010	22:25
ZZZZZZ		4/12/2010	22:29
ZZZZZZ		4/12/2010	22:32
ZZZZZZ		4/12/2010	22:35
ZZZZZZ		4/12/2010	22:39
ZZZZZZ		4/12/2010	22:42
ZZZZZZ		4/12/2010	22:46
ZZZZZZ		4/12/2010	22:50
ZZZZZZ		4/12/2010	22:53
ZZZZZZ		4/12/2010	22:57
ZZZZZZ		4/12/2010	23:00
ZZZZZZ		4/12/2010	23:03
ZZZZZZ		4/12/2010	23:07
ZZZZZZ		4/12/2010	23:10
Blank		4/12/2010	23:15
Standard 1		4/12/2010	23:20
Standard 2		4/12/2010	23:25
Standard 3		4/12/2010	23:30
ICV		4/12/2010	23:35
ICB		4/12/2010	23:40
CRI		4/12/2010	23:45
ICSA		4/12/2010	23:50
ICSAB		4/12/2010	23:55
CCV		4/13/2010	0:02
CCB		4/13/2010	0:07
ZZZZZZ		4/13/2010	0:12
ZZZZZZ		4/13/2010	0:17
ZZZZZZ		4/13/2010	0:21
CCV		4/13/2010	0:26
CCB		4/13/2010	0:31
ZZZZZZ		4/13/2010	0:36
ZZZZZZ		4/13/2010	0:40
ZZZZZZ		4/13/2010	0:45
ZZZZZZ		4/13/2010	0:49
LXRAEB		4/13/2010	0:54
LXRAEC		4/13/2010	0:58
LXHVE	WST16-10-13308	4/13/2010	1:03

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
LXHVEV	WST16-10-13308 V	4/13/2010	1:07
LXHVEX	WST16-10-13308 X	4/13/2010	1:12
LXHVES	WST16-10-13308 S	4/13/2010	1:16
CCV		4/13/2010	1:21
CCB		4/13/2010	1:26
ZZZZZZ		4/13/2010	1:31
LXHVL	RE16-10-14034	4/13/2010	1:36
LXHVLS	RE16-10-14034 S	4/13/2010	1:40
LXNLM	RE12-10-15449	4/13/2010	1:45
ZZZZZZ		4/13/2010	1:49
ZZZZZZ		4/13/2010	1:54
ZZZZZZ		4/13/2010	1:58
ZZZZZZ		4/13/2010	2:03
ZZZZZZ		4/13/2010	2:07
ZZZZZZ		4/13/2010	2:12
CCV		4/13/2010	2:16
CCB		4/13/2010	2:21
ZZZZZZ		4/13/2010	2:26
ZZZZZZ		4/13/2010	2:31
ZZZZZZ		4/13/2010	2:35
ZZZZZZ		4/13/2010	2:40
ZZZZZZ		4/13/2010	2:45
ZZZZZZ		4/13/2010	2:49
ZZZZZZ		4/13/2010	2:54
ZZZZZZ		4/13/2010	2:58
ZZZZZZ		4/13/2010	3:03
ZZZZZZ		4/13/2010	3:07
ZZZZZZ		4/13/2010	3:12
ZZZZZZ		4/13/2010	3:17
ZZZZZZ		4/13/2010	3:22
ZZZZZZ		4/13/2010	3:26
ZZZZZZ		4/13/2010	3:31
ZZZZZZ		4/13/2010	3:35
ZZZZZZ		4/13/2010	3:40
ZZZZZZ		4/13/2010	3:44
ZZZZZZ		4/13/2010	3:49
ZZZZZZ		4/13/2010	3:53
ZZZZZZ		4/13/2010	3:58
ZZZZZZ		4/13/2010	4:02

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	4:07
ZZZZZZ		4/13/2010	4:12
ZZZZZZ		4/13/2010	4:17
ZZZZZZ		4/13/2010	4:22
ZZZZZZ		4/13/2010	4:26
ZZZZZZ		4/13/2010	4:31
ZZZZZZ		4/13/2010	4:35
ZZZZZZ		4/13/2010	4:40
ZZZZZZ		4/13/2010	4:44
ZZZZZZ		4/13/2010	4:49
ZZZZZZ		4/13/2010	4:53
ZZZZZZ		4/13/2010	4:58
ZZZZZZ		4/13/2010	5:02
ZZZZZZ		4/13/2010	5:07
ZZZZZZ		4/13/2010	5:12
ZZZZZZ		4/13/2010	5:17
ZZZZZZ		4/13/2010	5:21
ZZZZZZ		4/13/2010	5:26
ZZZZZZ		4/13/2010	5:31
ZZZZZZ		4/13/2010	5:35
ZZZZZZ		4/13/2010	5:40
ZZZZZZ		4/13/2010	5:44
ZZZZZZ		4/13/2010	5:49
ZZZZZZ		4/13/2010	5:53
ZZZZZZ		4/13/2010	5:58
ZZZZZZ		4/13/2010	6:03
ZZZZZZ		4/13/2010	6:08
ZZZZZZ		4/13/2010	6:12
ZZZZZZ		4/13/2010	6:17
ZZZZZZ		4/13/2010	6:21
ZZZZZZ		4/13/2010	6:26
ZZZZZZ		4/13/2010	6:30
ZZZZZZ		4/13/2010	6:35
ZZZZZZ		4/13/2010	6:39
ZZZZZZ		4/13/2010	6:44
ZZZZZZ		4/13/2010	6:49
ZZZZZZ		4/13/2010	6:53
ZZZZZZ		4/13/2010	6:58
ZZZZZZ		4/13/2010	7:03

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041210M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	7:08
ZZZZZZ		4/13/2010	7:12
ZZZZZZ		4/13/2010	7:17
ZZZZZZ		4/13/2010	7:21
ZZZZZZ		4/13/2010	7:26
ZZZZZZ		4/13/2010	7:30
ZZZZZZ		4/13/2010	7:35
ZZZZZZ		4/13/2010	7:39
ZZZZZZ		4/13/2010	7:44
ZZZZZZ		4/13/2010	7:48
ZZZZZZ		4/13/2010	7:53
ZZZZZZ		4/13/2010	7:58
ZZZZZZ		4/13/2010	8:03
ZZZZZZ		4/13/2010	8:08
ZZZZZZ		4/13/2010	8:12
ZZZZZZ		4/13/2010	8:17

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	11:29
ZZZZZZ		4/13/2010	11:34
ZZZZZZ		4/13/2010	11:38
ZZZZZZ		4/13/2010	11:42
ZZZZZZ		4/13/2010	11:48
ZZZZZZ		4/13/2010	11:52
ZZZZZZ		4/13/2010	11:56
ZZZZZZ		4/13/2010	12:00
ZZZZZZ		4/13/2010	12:05
ZZZZZZ		4/13/2010	12:09
ZZZZZZ		4/13/2010	12:13
ZZZZZZ		4/13/2010	12:18
ZZZZZZ		4/13/2010	12:22
ZZZZZZ		4/13/2010	12:28
ZZZZZZ		4/13/2010	12:33
ZZZZZZ		4/13/2010	12:37
ZZZZZZ		4/13/2010	12:41
ZZZZZZ		4/13/2010	12:45
ZZZZZZ		4/13/2010	12:49
ZZZZZZ		4/13/2010	12:52
ZZZZZZ		4/13/2010	12:58
ZZZZZZ		4/13/2010	13:02
ZZZZZZ		4/13/2010	13:07
ZZZZZZ		4/13/2010	13:11
ZZZZZZ		4/13/2010	13:15
ZZZZZZ		4/13/2010	13:20
ZZZZZZ		4/13/2010	13:24
ZZZZZZ		4/13/2010	13:28
ZZZZZZ		4/13/2010	13:33
ZZZZZZ		4/13/2010	13:39
ZZZZZZ		4/13/2010	13:43
ZZZZZZ		4/13/2010	13:48
ZZZZZZ		4/13/2010	13:51
ZZZZZZ		4/13/2010	13:55
ZZZZZZ		4/13/2010	14:00
ZZZZZZ		4/13/2010	14:04
ZZZZZZ		4/13/2010	14:08
ZZZZZZ		4/13/2010	14:12
ZZZZZZ		4/13/2010	14:18

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	14:22
ZZZZZZ		4/13/2010	14:27
ZZZZZZ		4/13/2010	14:31
ZZZZZZ		4/13/2010	14:35
ZZZZZZ		4/13/2010	14:40
ZZZZZZ		4/13/2010	14:44
ZZZZZZ		4/13/2010	14:48
ZZZZZZ		4/13/2010	14:52
ZZZZZZ		4/13/2010	14:59
ZZZZZZ		4/13/2010	15:03
ZZZZZZ		4/13/2010	15:07
ZZZZZZ		4/13/2010	15:11
ZZZZZZ		4/13/2010	15:15
ZZZZZZ		4/13/2010	15:19
ZZZZZZ		4/13/2010	15:23
ZZZZZZ		4/13/2010	15:27
ZZZZZZ		4/13/2010	15:30
ZZZZZZ		4/13/2010	15:34
ZZZZZZ		4/13/2010	15:39
ZZZZZZ		4/13/2010	16:02
ZZZZZZ		4/13/2010	16:06
ZZZZZZ		4/13/2010	16:10
ZZZZZZ		4/13/2010	16:14
ZZZZZZ		4/13/2010	16:17
ZZZZZZ		4/13/2010	16:21
ZZZZZZ		4/13/2010	16:25
ZZZZZZ		4/13/2010	16:29
ZZZZZZ		4/13/2010	16:33
ZZZZZZ		4/13/2010	16:37
ZZZZZZ		4/13/2010	16:40
ZZZZZZ		4/13/2010	16:45
ZZZZZZ		4/13/2010	16:49
ZZZZZZ		4/13/2010	16:53
ZZZZZZ		4/13/2010	16:57
ZZZZZZ		4/13/2010	17:00
ZZZZZZ		4/13/2010	17:04
ZZZZZZ		4/13/2010	17:08
ZZZZZZ		4/13/2010	17:12
ZZZZZZ		4/13/2010	17:16

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Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	17:19
ZZZZZZ		4/13/2010	17:23
ZZZZZZ		4/13/2010	17:27
ZZZZZZ		4/13/2010	17:32
ZZZZZZ		4/13/2010	17:36
ZZZZZZ		4/13/2010	17:40
ZZZZZZ		4/13/2010	17:43
ZZZZZZ		4/13/2010	17:47
ZZZZZZ		4/13/2010	17:51
ZZZZZZ		4/13/2010	17:55
ZZZZZZ		4/13/2010	17:59
ZZZZZZ		4/13/2010	18:02
ZZZZZZ		4/13/2010	18:06
ZZZZZZ		4/13/2010	18:10
ZZZZZZ		4/13/2010	18:14
ZZZZZZ		4/13/2010	18:18
ZZZZZZ		4/13/2010	18:23
ZZZZZZ		4/13/2010	18:26
ZZZZZZ		4/13/2010	18:30
ZZZZZZ		4/13/2010	18:34
ZZZZZZ		4/13/2010	18:38
ZZZZZZ		4/13/2010	18:42
ZZZZZZ		4/13/2010	18:45
ZZZZZZ		4/13/2010	18:49
ZZZZZZ		4/13/2010	18:53
ZZZZZZ		4/13/2010	18:57
ZZZZZZ		4/13/2010	19:01
ZZZZZZ		4/13/2010	19:05
ZZZZZZ		4/13/2010	19:09
ZZZZZZ		4/13/2010	19:13
ZZZZZZ		4/13/2010	19:17
ZZZZZZ		4/13/2010	19:21
ZZZZZZ		4/13/2010	19:25
ZZZZZZ		4/13/2010	19:28
ZZZZZZ		4/13/2010	19:32
ZZZZZZ		4/13/2010	19:36
ZZZZZZ		4/13/2010	19:40
ZZZZZZ		4/13/2010	19:44
ZZZZZZ		4/13/2010	19:47

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	19:52
ZZZZZZ		4/13/2010	19:56
ZZZZZZ		4/13/2010	20:00
ZZZZZZ		4/13/2010	20:04
ZZZZZZ		4/13/2010	20:08
ZZZZZZ		4/13/2010	20:11
ZZZZZZ		4/13/2010	20:15
ZZZZZZ		4/13/2010	20:19
ZZZZZZ		4/13/2010	20:31
ZZZZZZ		4/13/2010	20:35
Blank		4/13/2010	20:40
Standard 1		4/13/2010	20:44
Standard 2		4/13/2010	20:48
Standard 3		4/13/2010	20:53
ICV		4/13/2010	20:57
ICB		4/13/2010	21:01
CRI		4/13/2010	21:06
ICSA		4/13/2010	21:10
ICSAB		4/13/2010	21:14
CCV		4/13/2010	21:21
CCB		4/13/2010	21:25
ZZZZZZ		4/13/2010	21:29
ZZZZZZ		4/13/2010	21:33
ZZZZZZ		4/13/2010	21:37
ZZZZZZ		4/13/2010	21:41
ZZZZZZ		4/13/2010	21:45
ZZZZZZ		4/13/2010	21:48
ZZZZZZ		4/13/2010	21:52
ZZZZZZ		4/13/2010	21:56
CCV		4/13/2010	22:00
CCB		4/13/2010	22:04
ZZZZZZ		4/13/2010	22:09
ZZZZZZ		4/13/2010	22:12
ZZZZZZ		4/13/2010	22:16
ZZZZZZ		4/13/2010	22:20
ZZZZZZ		4/13/2010	22:24
ZZZZZZ		4/13/2010	22:28
ZZZZZZ		4/13/2010	22:31
ZZZZZZ		4/13/2010	22:35

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Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/13/2010	22:39
ZZZZZZ		4/13/2010	22:43
CCV		4/13/2010	22:47
CCB		4/13/2010	22:51
ZZZZZZ		4/13/2010	22:55
ZZZZZZ		4/13/2010	22:59
ZZZZZZ		4/13/2010	23:03
LXRAEB		4/13/2010	23:07
LXRAEC		4/13/2010	23:11
LXHVE	WST16-10-13308	4/13/2010	23:14
LXHVEV	WST16-10-13308 V	4/13/2010	23:18
LXHVEX	WST16-10-13308 X	4/13/2010	23:22
LXHVES	WST16-10-13308 S	4/13/2010	23:26
ZZZZZZ		4/13/2010	23:30
CCV		4/13/2010	23:33
CCB		4/13/2010	23:38
LXHVL	RE16-10-14034	4/13/2010	23:42
LXHVLS	RE16-10-14034 S	4/13/2010	23:46
LXNLM	RE12-10-15449	4/13/2010	23:50
ZZZZZZ		4/13/2010	23:53
ZZZZZZ		4/13/2010	23:57
ZZZZZZ		4/14/2010	0:01
ZZZZZZ		4/14/2010	0:05
ZZZZZZ		4/14/2010	0:09
ZZZZZZ		4/14/2010	0:12
ZZZZZZ		4/14/2010	0:16
CCV		4/14/2010	0:20
CCB		4/14/2010	0:24
ZZZZZZ		4/14/2010	0:29
ZZZZZZ		4/14/2010	0:33
ZZZZZZ		4/14/2010	0:36
ZZZZZZ		4/14/2010	0:40
ZZZZZZ		4/14/2010	0:44
ZZZZZZ		4/14/2010	0:48
ZZZZZZ		4/14/2010	0:52
ZZZZZZ		4/14/2010	0:55
ZZZZZZ		4/14/2010	0:59
ZZZZZZ		4/14/2010	1:03
ZZZZZZ		4/14/2010	1:07

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	1:11
ZZZZZZ		4/14/2010	1:15
ZZZZZZ		4/14/2010	1:19
ZZZZZZ		4/14/2010	1:23
ZZZZZZ		4/14/2010	1:27
ZZZZZZ		4/14/2010	1:31
ZZZZZZ		4/14/2010	1:35
ZZZZZZ		4/14/2010	1:38
ZZZZZZ		4/14/2010	1:42
ZZZZZZ		4/14/2010	1:46
ZZZZZZ		4/14/2010	1:50
ZZZZZZ		4/14/2010	1:54
ZZZZZZ		4/14/2010	1:58
ZZZZZZ		4/14/2010	2:02
ZZZZZZ		4/14/2010	2:06
ZZZZZZ		4/14/2010	2:10
ZZZZZZ		4/14/2010	2:14
ZZZZZZ		4/14/2010	2:17
ZZZZZZ		4/14/2010	2:21
ZZZZZZ		4/14/2010	2:25
ZZZZZZ		4/14/2010	2:29
ZZZZZZ		4/14/2010	2:34
ZZZZZZ		4/14/2010	2:37
ZZZZZZ		4/14/2010	2:41
ZZZZZZ		4/14/2010	2:45
ZZZZZZ		4/14/2010	2:48
ZZZZZZ		4/14/2010	2:52
ZZZZZZ		4/14/2010	2:56
ZZZZZZ		4/14/2010	2:59
ZZZZZZ		4/14/2010	3:03
ZZZZZZ		4/14/2010	3:09
ZZZZZZ		4/14/2010	3:13
ZZZZZZ		4/14/2010	3:16
ZZZZZZ		4/14/2010	3:19
ZZZZZZ		4/14/2010	3:23
ZZZZZZ		4/14/2010	3:26
ZZZZZZ		4/14/2010	3:30
ZZZZZZ		4/14/2010	3:33
ZZZZZZ		4/14/2010	3:36

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

SDG: Test

Instrument: ICPMS

Chart Number: 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	3:40
ZZZZZZ		4/14/2010	3:43
ZZZZZZ		4/14/2010	3:46
ZZZZZZ		4/14/2010	3:49
ZZZZZZ		4/14/2010	3:52
ZZZZZZ		4/14/2010	3:55
ZZZZZZ		4/14/2010	3:59
ZZZZZZ		4/14/2010	4:02
ZZZZZZ		4/14/2010	4:06
ZZZZZZ		4/14/2010	4:09
ZZZZZZ		4/14/2010	4:12
ZZZZZZ		4/14/2010	4:16
ZZZZZZ		4/14/2010	4:19
ZZZZZZ		4/14/2010	4:22
ZZZZZZ		4/14/2010	4:25
ZZZZZZ		4/14/2010	4:28
ZZZZZZ		4/14/2010	4:32
ZZZZZZ		4/14/2010	4:35
ZZZZZZ		4/14/2010	4:38
ZZZZZZ		4/14/2010	4:41
ZZZZZZ		4/14/2010	4:45
ZZZZZZ		4/14/2010	4:48
ZZZZZZ		4/14/2010	4:52
ZZZZZZ		4/14/2010	4:55
ZZZZZZ		4/14/2010	4:58
ZZZZZZ		4/14/2010	5:01
ZZZZZZ		4/14/2010	5:04
ZZZZZZ		4/14/2010	5:08
ZZZZZZ		4/14/2010	5:11
ZZZZZZ		4/14/2010	5:14
ZZZZZZ		4/14/2010	5:17
ZZZZZZ		4/14/2010	5:20
ZZZZZZ		4/14/2010	5:24
ZZZZZZ		4/14/2010	5:28
ZZZZZZ		4/14/2010	5:31
ZZZZZZ		4/14/2010	5:34
ZZZZZZ		4/14/2010	5:37
ZZZZZZ		4/14/2010	5:40
ZZZZZZ		4/14/2010	5:44

TESTAMERICA-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog **SDG:** Test

Instrument: ICPMS **Chart Number:** 041310M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		4/14/2010	5:47
ZZZZZZ		4/14/2010	5:50
ZZZZZZ		4/14/2010	5:53
ZZZZZZ		4/14/2010	5:56
ZZZZZZ		4/14/2010	6:00
ZZZZZZ		4/14/2010	6:03
ZZZZZZ		4/14/2010	6:07
ZZZZZZ		4/14/2010	6:10
ZZZZZZ		4/14/2010	6:13
ZZZZZZ		4/14/2010	6:16
ZZZZZZ		4/14/2010	6:20
ZZZZZZ		4/14/2010	6:23
ZZZZZZ		4/14/2010	6:26
ZZZZZZ		4/14/2010	6:29
ZZZZZZ		4/14/2010	6:32
ZZZZZZ		4/14/2010	6:36
ZZZZZZ		4/14/2010	6:39
ZZZZZZ		4/14/2010	6:42
ZZZZZZ		4/14/2010	6:46
ZZZZZZ		4/14/2010	6:49
ZZZZZZ		4/14/2010	6:53
ZZZZZZ		4/14/2010	6:56
ZZZZZZ		4/14/2010	6:59
ZZZZZZ		4/14/2010	7:02
ZZZZZZ		4/14/2010	7:05
ZZZZZZ		4/14/2010	7:08
ZZZZZZ		4/14/2010	7:12
ZZZZZZ		4/14/2010	7:15

METALS RAW DATA

4-13-10
NS
Stg: 041210

Sample/Batch Report

User Name: stlmetals
Computer Name: SLICP03
Sample File: D:\Elandata\Sample\SW846 TEMP.sam
Report Date/Time: Monday, April 12, 2010 18:10:19

file: 041210M1

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
242	LLC	TRACE							
243	LDR	1PPM							
244		2PPM							
11	0083360	LW10T	2						
12		LW104	2						
11		LW10T	2						
228		CCV							
237		CCB							
13	0098195	LXNG4B							
14		LXNG4C							
15		LXKEE							
16		LXKEEV	5						
17		LXKEES							
18		LXKEED							
19		LXMEQ							
20		LXME1							
21	0097226	LXLXKB							
22	0096088	LXJ3DB	2						
23		LXJ3DC	5						
24		LXHT4	50						
25		LXHT4V	250						
26		LXHT4S	50						
27		LXHT4D	50						
28		LXHVD	20						
29	0098076	LXM0QB	2						
30		LXM0QC	2						
31		LXLQH	4						
32		LXLQHV	20						
33		LXLQHS	4						
34		LXLQHD	4						
35		LXLQHA	4						
36		LXLQL	4						
37		LXLQM	4						
38		LXLQN	4						
39		LXLQP	4						
40		LXLQQ	4						
41		LXLQR	4						
42		LXLQT	4						
43		LXLQV	4						
44		LXLQW	4						
45		LXLQX	4						
46		LXLQ0	4						
47		LXLQ1	4						
48		LXLQ2	4						
49		LXLQ5	4						
50		LXLQ6	4						
51		LXLQ7	4						
228		CCV							
237		CCB							

242	LLC	TRACE		
243	LDR	1PPM		
244		2PPM		
191		TRACE ZN	10	
22	0096088	LXJ3DB	2	
23		LXJ3DC	5	
24		LXHT4	50	
25		LXHT4V	250	
26		LXHT4S	50	
27		LXHT4D	50	
28		LXHVD	20	
228		CCV		
237		CCB		
242	LLC	TRACE		
243	LDR	1PPM		
244		2PPM		All trace Sb@1ppm Be@4ppm Ag@.4ppm
245		20 PPM		
246		50 PPM		K, Na, Al
247		200 PPM		Mg, Ca, Fe
191		TRACE ZN	10	
52	0099286	LXRAEB		
53		LXRAEC		
54		LXHVE		
55		LXHVEV	5	
56		LXHVEX		
57		LXHVES		
58		LXHVEA		
59		LXHVL		
60		LXHVLS		
61		LXNLM		
62	0099287	LXRAGB		
63		LXRAGC		
64		LW2XV		
65		LW2XVV	5	
66		LW2XVS		
67		LW2XVD		
68	0099249	LXPT5B	2	
69		LXPT5C	5	
70		LXPT5C	10	
71		LXNH3	2	
72		LXNH3V	10	
73	Sc1↑	LXNH3S	2	
74	Sc1↑	LXNH3D	2	
75		LXNH3A	2	
76		LXPA8	2	Ag↑ noAg
77	Sc1↑	LXPA8S	2	
78	Sc1↑	LXPA9	2	Ag↑ noAg
79		LXPCA	2	
80	Sc1↑	LXPCC	2	
81	Sc1↑	LXPCD	2	Ag↑ noAg
82		LXPCE	2	
83		LXNH3	10	
84		LXNH3V	50	
85		LXNH3S	10	
86		LXNH3D	10	
87		LXNH3A	10	
88		LXPA8	10	Ag
89		LXPA8S	10	
90		LXPA9	10	Ag
91		LXPCA	10	

recal
ICV | ICB | LLC Ca↑ Zn↑ | A | ATB | CCV | CCB

CW 244, CW 245, CW 57, CCB Be↑, CW 67, CW 68, CCB ↑Tl, CW 77, CW 78, CW 87, CW 88

All except Zn, Tl, Ca

All except Be, Cr

All

All except Be, Cr

All

Be, Cr

92		LXPCC	10	
93		LXPCD	10	Ag — Be, Cr
94		LXPCE	10	
95	0097230	LXLXTB		
96		LXLXTC		
cw 97		LW7EE		
98		LW7EEV	5	All except Cu, Zn, Ca
99		LW7EES		
100		LW7EED		
101		LW7EG		
102		LW7EH		
103		LW7EK		
104	0097081	LXLFVB	2	
105		LXLFVC	5 ↑Pb	
106		~~LXLFVC~~	~~10 ↑Pb~~	
107		LXLFVC	2	U
cw 108		LW5N3	2	All except Zn, Be, Ca, Pb
CCB Be↑ 109		LW5N3V	10	
110	Sc1↑	LW5N3S	2	
111	Sc1↑	LW5N3D	2	
112		LW5PM	2	
113	Sc1↑	LW5PT	2	All except Na, Mg, Al, Ca, Be, Fe, V, Cr, Pb, Mn, Co, Ni
114	Sc1↑	LW5PX	2	
115		LW5P2	2	
116	Sc1↑	LW5P3	2	
117		LW5P5	2	
cw 118	Sc1↑	LW5P7	2	
119		LW5P9	2	
120		LW5QC	2	
121	Sc1↑	LW7EL	2	
122	Sc1↑	LW7ER	2	
123	Sc1↑	LW7EW	2	
124		LW7EX	2	
125	Sc1↑	LW7E1	2	
126		LW7E2	2	
127		LW7E3	2 Mn↑	NO Mn
cw 128	0091194	LXEKKB		
129		LXEKKC		
130		LXCPA	50	
131		LXCPAV	250	
132		LXCPAS	50	
133		LXCPAD	50	
134		LXCPA	5	
135		LXCPAV	25	
136		LXCPAS	5	
137		LXCPAD	5	

* 0097081 *
reextract
Pb ↑ LCS

04-14-10
TC

Instrument Tuning Report

File Name: EPA TUNING.tun
File Path: d:\Elandata\Tuning
Sample ID: Sample
Sample Date/Time: Monday, April 12, 2010 15:40:03

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	579	2085	0.681	
Mg	23.985	23.979	5688	2085	0.676	
Rh	102.905	102.928	24920	2080	0.689	
Ce	139.905	139.879	33931	2112	0.704	
Pb	207.977	208.026	50407	2300	0.713	

Replicates: 4

Meas. Intens. RSD	Mass
0.793	2.000
1.124	3.000
39.960	4.000
6.797	23.000
1.262	24.000
3.176	25.000
22.886	102.000
0.765	103.000
22.527	104.000
6.399	139.000
2.029	140.000
16.220	141.000
1.856	207.000
1.090	208.000
6.827	209.000

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, April 12, 2010 16:16:39
Sample Description:
Method File: d:\Elandata\Method\DAILY EPA.mth
Dataset File: d:\Elandata\Dataset\daily performance epa 3\Sample.069
Tuning File: d:\Elandata\Tuning\EPA TUNING.tun
Optimization File: d:\Elandata\Optimize\EPA2008.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
	Mg	24.0	49177.1	49177.057	360.499	0.7
	Rh	102.9	360088.5	360088.464	2405.759	0.7
	Pb	208.0	204686.7	204686.697	1654.587	0.8
⌈>	Ba	137.9	383641.5	383641.508	4007.842	1.0
⌊	Ba++	69.0	7370.5	0.019	0.000	1.5
⌈>	Ce	139.9	466278.2	466278.244	4501.595	1.0
⌊	CeO	155.9	11278.7	0.024	0.000	1.5
	Bkgd	220.0	21.1	21.056	2.507	11.9

Current Optimization File Data

Current Value	Description
0.90	Nebulizer Gas Flow
6.00	Lens Voltage
1400.00	ICP RF Power
-2062.50	Analog Stage Voltage
1250.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	5.0	4577.7
Mg	24	29	4.5	53601.7
Co	59	29	5.3	163844.9
Rh	103	29	6.0	390011.8
In	115	29	6.0	475342.5
Ba	138	29	6.3	431020.3
Ce	140	29	6.3	526713.9
Pb	208	29	8.5	235898.1

Quantitative Analysis Calibration Report

File Name: 041210M1B.cal
File Path: D:\Elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Na	22.990	Linear Thru Zero	0.015316	0.00	0.999972
Mg	23.985	Linear Thru Zero	0.010150	0.00	0.999991
Al	26.982	Linear Thru Zero	0.015198	0.00	0.999971
K	38.964	Linear Thru Zero	0.027152	0.00	0.999982
Ca	43.956	Linear Thru Zero	0.000970	0.00	0.999772
Fe	56.935	Linear Thru Zero	0.000993	0.00	0.999895
Be	9.012	Linear Thru Zero	0.001486	0.00	0.999995
V	50.944	Linear Thru Zero	0.033183	0.00	0.999847
Cr	51.941	Linear Thru Zero	0.030477	0.00	0.999917
Mn	54.938	Linear Thru Zero	0.047198	0.00	0.999827
Co	58.933	Linear Thru Zero	0.037941	0.00	0.999894
Ni	59.933	Linear Thru Zero	0.008798	0.00	0.999946
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
Cu	64.928	Linear Thru Zero	0.007393	0.00	0.999942
Zn	65.926	Linear Thru Zero	0.004193	0.00	0.999890
As	74.922	Linear Thru Zero	0.005031	0.00	0.999977
Se	81.917	Linear Thru Zero	0.000553	0.00	1.000000
In-1	114.904	Linear Thru Zero	0.000000	0.00	0.000000
Mo	96.906	Linear Thru Zero	0.003424	0.00	0.999962
Ag	106.905	Linear Thru Zero	0.015890	0.00	0.999900
Cd	110.904	Linear Thru Zero	0.003596	0.00	0.999951
Sb	122.904	Linear Thru Zero	0.009519	0.00	0.999984
Ba	134.906	Linear Thru Zero	0.003289	0.00	0.999928
Au-1	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.022199	0.00	0.999987
Pb	207.977	Linear Thru Zero	0.031206	0.00	0.999996
U	238.050	Linear Thru Zero	0.030093	0.00	0.999999
In-2	114.904	Linear Thru Zero	0.000000	0.00	0.000000
Ba	136.905	Linear Thru Zero	0.005543	0.00	0.999897
Au-2	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Pb	205.975	Linear Thru Zero	0.007750	0.00	0.999992
Pb	206.976	Linear Thru Zero	0.006882	0.00	0.999991

QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank
Sample Date/Time: Monday, April 12, 2010 23:15:09
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041210M1\Blank.095

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			219065.440	ug/L	
	23	Na			11860.377	ug/L	
	24	Mg			3830.886	ug/L	
	27	Al			6628.604	ug/L	
	39	K			716897.807	ug/L	
	44	Ca			91324.351	ug/L	
	57	Fe			12818.592	ug/L	
	9	Be			48.334	ug/L	
	51	V			-30646.865	ug/L	
	52	Cr			30184.830	ug/L	
	55	Mn			4011.938	ug/L	
	59	Co			1537.098	ug/L	
	60	Ni			860.035	ug/L	
>	72	Ge-1			321356.208	ug/L	
	65	Cu			1104.721	ug/L	
	66	Zn			5408.412	ug/L	
	75	As			-1011.066	ug/L	
	82	Se			39.252	ug/L	
>	115	In-1			628564.297	ug/L	
	97	Mo			1099.053	ug/L	
	107	Ag			756.028	ug/L	
	111	Cd			402.343	ug/L	
	123	Sb			5839.772	ug/L	
	135	Ba			418.010	ug/L	
>	197	Au-1			871438.669	ug/L	
	205	Tl			12873.293	ug/L	
	208	Pb			5892.860	ug/L	
	238	U			4539.435	ug/L	
>	115	In-2			628564.297	ug/L	
	137	Ba			677.690	ug/L	
>	197	Au-2			871438.669	ug/L	
	206	Pb			1442.421	ug/L	
	207	Pb			1401.083	ug/L	

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115		
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197		

	Tl	205
	Pb	208
	U	238
>	In-2	115
	Ba	137
>	Au-2	197
	Pb	208
	Pb	207

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1
Sample Date/Time: Monday, April 12, 2010 23:20:10
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041210M1\Standard 1.096

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			225257.767	ug/L	219065.440
	23	Na	50.000000	2.976	217292.395	ug/L	11860.377
	24	Mg	50.000000	1.366	135527.877	ug/L	3830.886
	27	Al	30.000000	2.616	123075.861	ug/L	6628.604
	39	K	100.000000	4.214	1374674.798	ug/L	716897.807
	44	Ca	100.000000	11.349	118978.594	ug/L	91324.351
	57	Fe	50.000000	7.574	25262.307	ug/L	12818.592
	9	Be	0.500000	6.684	199.337	ug/L	48.334
	51	V	10.000000	9.763	48536.550	ug/L	-30646.865
	52	Cr	10.000000	3.412	107083.962	ug/L	30184.830
	55	Mn	2.000000	2.925	27624.633	ug/L	4011.938
	59	Co	2.000000	1.838	20526.943	ug/L	1537.098
	60	Ni	5.000000	3.616	11618.506	ug/L	860.035
>	72	Ge-1			326377.505	ug/L	321356.208
	65	Cu	1.000000	3.486	3671.842	ug/L	1104.721
	66	Zn	5.000000	4.298	14547.218	ug/L	5408.412
	75	As	10.000000	6.621	16007.988	ug/L	-1011.066
	82	Se	5.000000	2.338	895.952	ug/L	39.252
>	115	In-1			640924.199	ug/L	628564.297
	97	Mo	5.000000	2.274	11719.923	ug/L	1099.053
	107	Ag	2.000000	4.431	21908.350	ug/L	756.028
	111	Cd	0.500000	4.845	1465.423	ug/L	402.343
	123	Sb	5.000000	3.826	32273.355	ug/L	5839.772
	135	Ba	2.000000	2.627	4755.506	ug/L	419.010
>	197	Au-1			880864.784	ug/L	871438.669
	205	Tl	2.000000	8.959	44319.573	ug/L	12873.293
	208	Pb	3.000000	1.047	93344.549	ug/L	5892.860
	238	U	1.000000	0.307	30662.848	ug/L	4539.435
>	115	In-2			640924.199	ug/L	628564.297
	137	Ba	2.000000	1.396	8353.860	ug/L	677.690
>	197	Au-2			880864.784	ug/L	871438.669
	206	Pb	3.000000	0.392	22976.693	ug/L	1442.421
	207	Pb	3.000000	2.043	20881.127	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115		
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		

|	Tl	205
|	Pb	208
|	U	238
⌈>	In-2	115
|	Ba	137
⌈>	Au-2	197
|	Pb	206
|	Pb	207

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2
Sample Date/Time: Monday, April 12, 2010 23:25:11
Autosampler Position: 3
Dataset File: D:\Elandata\Dataset\041210M1\Standard 2.097

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			222721.461	ug/L	219065.440
	23	Na	624.405830	6.768	2213119.386	ug/L	11860.377
	24	Mg	1249.744007	3.850	2884142.792	ug/L	3830.886
	27	Al	624.869065	3.651	2199690.287	ug/L	6628.604
	39	K	624.791085	4.516	4613466.203	ug/L	716897.807
	44	Ca	1249.686330	4.188	391070.506	ug/L	91324.351
	57	Fe	1249.984414	5.082	309110.113	ug/L	12818.592
	9	Be	100.000297	4.849	33612.168	ug/L	48.334
	51	V	100.015862	5.760	770984.059	ug/L	-30646.865
	52	Cr	99.958386	3.961	751675.138	ug/L	30184.830
	55	Mn	99.999549	6.718	1150728.426	ug/L	4011.938
	59	Co	99.998660	2.676	907555.393	ug/L	1537.098
	60	Ni	99.992367	2.681	206771.585	ug/L	860.035
>	72	Ge-1			311006.729	ug/L	321356.208
	65	Cu	99.999969	1.599	243387.312	ug/L	1104.721
	66	Zn	99.941578	0.400	145079.118	ug/L	5408.412
	75	As	99.995609	1.117	160736.860	ug/L	-1011.066
	82	Se	100.011971	2.571	17179.974	ug/L	39.252
>	115	In-1			605840.728	ug/L	628564.297
	97	Mo	100.018451	1.368	217514.756	ug/L	1099.053
	107	Ag	20.006032	2.268	206860.074	ug/L	756.028
	111	Cd	100.000317	3.133	228877.179	ug/L	402.343
	123	Sb	50.078176	6.864	300746.720	ug/L	5839.772
	135	Ba	100.001256	3.943	211493.330	ug/L	419.010
>	197	Au-1			864716.313	ug/L	871438.669
	205	Tl	100.007149	2.285	1884164.372	ug/L	12873.293
	208	Pb	99.995969	1.084	2742535.995	ug/L	5892.860
	238	U	100.000083	1.494	2585064.770	ug/L	4539.435
>	115	In-2			605840.728	ug/L	628564.297
	137	Ba	99.999746	1.650	360405.686	ug/L	677.690
>	197	Au-2			864716.313	ug/L	871438.669
	206	Pb	99.997323	0.972	685189.899	ug/L	1442.421
	207	Pb	99.995653	2.276	608849.279	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115		
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197		

	Tl	205
	Pb	208
	U	238
>	In-2	115
	Ba	137
>	Au-2	197
	Pb	206
	Pb	207

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3
Sample Date/Time: Monday, April 12, 2010 23:30:12
Autosampler Position: 4
Dataset File: D:\Elandata\Dataset\041210M1\Standard 3.098

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			220060.404	ug/L	219065.440
	23	Na	3120.524932	2.724	10525262.882	ug/L	11860.377
	24	Mg	6244.824904	0.697	13950811.684	ug/L	3830.886
	27	Al	3120.248501	2.566	10438529.232	ug/L	6628.604
	39	K	3121.220049	0.813	19367491.025	ug/L	716897.807
	44	Ca	6223.259363	2.790	1419144.259	ug/L	91324.351
	57	Fe	6231.870294	4.303	1374262.223	ug/L	12818.592
	9	Be	499.686383	1.287	163414.765	ug/L	48.334
	51	V	498.244153	0.641	3607248.056	ug/L	-30646.865
	52	Cr	498.709701	1.286	3375282.935	ug/L	30184.830
	55	Mn	498.137166	4.470	5174361.109	ug/L	4011.938
	59	Co	498.544727	2.866	4162301.020	ug/L	1537.098
	60	Ni	498.963810	1.373	966857.055	ug/L	860.035
>	72	Ge-1			306067.244	ug/L	321356.208
	65	Cu	498.919722	3.833	1130010.872	ug/L	1104.721
	66	Zn	498.533382	1.528	644813.720	ug/L	5408.412
	75	As	499.321217	2.642	767802.417	ug/L	-1011.066
	82	Se	500.080904	2.167	84737.910	ug/L	39.252
>	115	In-1			597666.489	ug/L	628564.297
	97	Mo	499.131862	1.336	1022255.232	ug/L	1099.053
	107	Ag	99.715471	2.103	947713.458	ug/L	756.028
	111	Cd	499.013278	0.968	1072750.163	ug/L	402.343
	123	Sb	249.767542	0.841	1426453.930	ug/L	5839.772
	135	Ba	498.802399	3.149	980757.980	ug/L	419.010
>	197	Au-1			830675.897	ug/L	871438.669
	205	Tl	500.500321	1.806	9241055.080	ug/L	12873.293
	208	Pb	499.713350	1.827	12957251.069	ug/L	5892.860
	238	U	500.162725	2.527	12504054.474	ug/L	4539.435
>	115	In-2			597666.489	ug/L	628564.297
	137	Ba	498.566339	2.216	1652084.106	ug/L	677.690
>	197	Au-2			830675.897	ug/L	871438.669
	206	Pb	499.591407	0.935	3217582.794	ug/L	1442.421
	207	Pb	499.577042	2.785	2856426.013	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115		
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197		

|	Tl	205
|	Pb	208
|	U	238
⌈>	In-2	115
⌊	Ba	137
⌈>	Au-2	197
|	Pb	206
⌊	Pb	207

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1
Sample Date/Time: Monday, April 12, 2010 23:35:14
Autosampler Position: 7
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 1.099

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			222364.386	ug/L	219065.440
	23	Na	3816.365500	3.282	13005182.709	ug/L	11860.377
	24	Mg	3916.069489	3.734	8839082.350	ug/L	3830.886
	27	Al	3837.477557	2.794	12971972.957	ug/L	6628.604
	39	K	3910.818774	2.702	24333301.013	ug/L	716897.807
	44	Ca	4118.199632	2.853	980406.100	ug/L	91324.351
	57	Fe	4067.887983	2.383	911320.553	ug/L	12818.592
	9	Be	965.271819	0.494	318973.554	ug/L	48.334
	51	V	953.346565	1.631	7004386.918	ug/L	-30646.865
	52	Cr	972.321844	1.172	6620703.484	ug/L	30184.830
	55	Mn	979.838804	2.529	10284945.173	ug/L	4011.938
	59	Co	1007.298199	2.644	8498550.029	ug/L	1537.098
	60	Ni	948.666951	2.226	1856425.544	ug/L	860.035
>	72	Ge-1			306285.015	ug/L	321356.208
	65	Cu	978.809958	2.521	2216621.018	ug/L	1104.721
	66	Zn	967.589566	1.101	1247484.186	ug/L	5408.412
	75	As	949.862208	1.157	1462489.173	ug/L	-1011.066
	82	Se	965.548678	1.892	163655.495	ug/L	39.252
>	115	In-1			580152.401	ug/L	628564.297
	97	Mo	972.425447	2.380	1931737.326	ug/L	1099.053
	107	Ag	196.667059	4.291	1812515.608	ug/L	756.028
	111	Cd	1008.638868	1.751	2103899.613	ug/L	402.343
	123	Sb	525.223858	2.459	2904709.157	ug/L	5839.772
	135	Ba	986.341321	1.776	1882096.567	ug/L	419.010
>	197	Au-1			837494.259	ug/L	871438.669
	205	Tl	1011.987748	3.147	18818251.170	ug/L	12873.293
	208	Pb	984.936275	3.415	25733699.079	ug/L	5892.860
	238	U	1017.716027	5.010	25633743.098	ug/L	4539.435
>	115	In-2			580152.401	ug/L	628564.297
	137	Ba	1032.414979	4.287	3318838.940	ug/L	677.690
>	197	Au-2			837494.259	ug/L	871438.669
	206	Pb	1004.098989	2.539	6515957.363	ug/L	1442.421
	207	Pb	962.591383	3.359	5546483.659	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	101.506	
	Na	23		95.409
	Mg	24		97.902
	Al	27		95.937
	K	39		97.770
	Ca	44		102.955
	Fe	57		101.697
	Be	9		96.527
	V	51		95.335
	Cr	52		97.232
	Mn	55		97.984
	Co	59		100.730
	Ni	60		94.867
>	Ge-1	72	95.310	
	Cu	65		97.881
	Zn	66		96.759
	As	75		94.988
	Se	82		96.555
>	In-1	115	92.298	
	Mo	97		97.243
	Ag	107		98.334
	Cd	111		100.864
	Sb	123		105.045
	Ba	135		98.834
>	Au-1	197	96.105	

|	Tl	205		101.199
|	Pb	208		98.494
L	U	238		101.772
⌈>	In-2	115	92.298	
L	Ba	137		103.241
⌈>	Au-2	197	96.105	
|	Pb	206		100.410
L	Pb	207		96.259

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2
Sample Date/Time: Monday, April 12, 2010 23:40:15
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 2.100

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			207280.472	ug/L	219065.440
	23	Na	1.732450	27.416	16730.688	ug/L	11860.377
	24	Mg	1.400283	30.107	6575.266	ug/L	3830.886
	27	Al	1.265707	29.455	10263.824	ug/L	6628.604
	39	K	5.630592	25.268	709972.593	ug/L	716897.807
	44	Ca	49.581348	10.006	96389.248	ug/L	91324.351
	57	Fe	3.122661	29.654	12770.600	ug/L	12818.592
	9	Be	0.300226	18.828	138.335	ug/L	48.334
	51	V	-1.572590	96.896	-39813.618	ug/L	-30646.865
	52	Cr	0.312495	47.805	30538.610	ug/L	30184.830
	55	Mn	0.321140	19.053	6940.431	ug/L	4011.938
	59	Co	0.329547	26.666	4049.293	ug/L	1537.098
	60	Ni	0.264297	22.248	1296.072	ug/L	860.035
>	72	Ge-1			305276.001	ug/L	321356.208
	65	Cu	0.305822	30.466	1738.124	ug/L	1104.721
	66	Zn	0.541466	33.715	5829.248	ug/L	5408.412
	75	As	0.610367	54.264	-24.718	ug/L	-1011.066
	82	Se	0.453243	36.287	113.620	ug/L	39.252
>	115	In-1			595381.648	ug/L	628564.297
	97	Mo	0.977152	36.184	3031.364	ug/L	1099.053
	107	Ag	0.069584	24.797	1374.080	ug/L	756.028
	111	Cd	0.306098	26.792	1036.049	ug/L	402.343
	123	Sb	-0.042694	261.759	5288.693	ug/L	5839.772
	135	Ba	0.277346	31.796	939.708	ug/L	419.010
>	197	Au-1			830169.808	ug/L	871438.669
	205	Tl	1.206473	39.690	34505.793	ug/L	12873.293
	208	Pb	0.352318	29.418	14743.564	ug/L	5892.860
	238	U	0.380362	28.857	13829.673	ug/L	4539.435
>	115	In-2			595381.648	ug/L	628564.297
	137	Ba	0.292836	28.469	1607.775	ug/L	677.690
>	197	Au-2			830169.808	ug/L	871438.669
	206	Pb	0.352210	26.614	3640.842	ug/L	1442.421
	207	Pb	0.323854	31.196	3185.395	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	94.620	
	Na	23		173.245
	Mg	24		140.028
	Al	27		126.571
	K	39		563.059
	Ca	44		4958.135
	Fe	57		312.266
	Be	9		30.023
	V	51		-157.259
	Cr	52		31.250
	Mn	55		32.114
	Co	59		32.955
	Ni	60		26.430
>	Ge-1	72	94.998	
	Cu	65		30.582
	Zn	66		54.147
	As	75		61.037
	Se	82		45.324
>	In-1	115	94.721	
	Mo	97		97.715
	Ag	107		6.958
	Cd	111		30.610
	Sb	123		-4.269
	Ba	135		27.735
>	Au-1	197	[illegible]	

	Tl	205		120.647
	Pb	208		35.232
	U	238		38.036
>	In-2	115	94.721	
	Ba	137		29.284
>	Au-2	197	95.264	
	Pb	206		35.221
	Pb	207		32.385

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3
Sample Date/Time: Monday, April 12, 2010 23:45:16
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 3.101

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			219021.135	ug/L	219065.440
23	Na	59.335853	0.626	210887.470	ug/L	11860.377
24	Mg	59.045017	2.078	135046.055	ug/L	3830.886
27	Al	35.122814	2.353	123497.785	ug/L	6628.604
39	K	111.576409	6.208	1379554.200	ug/L	716897.807
44	Ca	136.009675	11.027	120135.221	ug/L	91324.351
57	Fe	52.631568	4.411	24257.320	ug/L	12818.592
9	Be	0.470587	13.130	201.670	ug/L	48.334
51	V	11.014423	21.936	49119.293	ug/L	-30646.865
52	Cr	10.679090	4.167	101411.035	ug/L	30184.830
55	Mn	2.267110	2.056	27449.978	ug/L	4011.938
59	Co	2.297362	1.626	20624.421	ug/L	1537.098
60	Ni	5.532585	2.298	11516.756	ug/L	860.035
72	Ge-1			321427.182	ug/L	321356.208
65	Cu	1.055234	7.619	3611.493	ug/L	1104.721
66	Zn	6.979608	4.010	14814.162	ug/L	5408.412
75	As	10.665706	6.369	16233.590	ug/L	-1011.066
82	Se	4.466636	10.102	833.014	ug/L	39.252
115	In-1			613948.934	ug/L	628564.297
97	Mo	5.094044	3.247	11775.637	ug/L	1099.053
107	Ag	2.102310	6.029	21224.978	ug/L	756.028
111	Cd	0.478665	7.088	1448.421	ug/L	402.343
123	Sb	4.340147	4.396	31059.007	ug/L	5839.772
135	Ba	2.113134	2.411	4675.479	ug/L	419.010
197	Au-1			860816.195	ug/L	871438.669
205	Tl	1.884717	3.521	48729.818	ug/L	12873.293
208	Pb	3.151441	0.802	90478.156	ug/L	5892.860
238	U	1.011041	0.412	30674.203	ug/L	4539.435
115	In-2			613948.934	ug/L	628564.297
137	Ba	2.180521	4.639	8075.696	ug/L	677.690
197	Au-2			860816.195	ug/L	871438.669
206	Pb	3.152696	2.762	22456.535	ug/L	1442.421
207	Pb	3.139815	2.526	19983.839	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	99.960	
Na	23		118.672
Mg	24		118.090
Al	27		117.078
K	39		111.576
Ca	44		136.010
Fe	57		105.263
Be	9		94.117
V	51		110.144
Cr	52		106.791
Mn	55		113.356
Co	59		114.868
Ni	60		110.652
Ge-1	72	100.022	
Cu	65		105.523
Zn	66		139.592
As	75		106.657
Se	82		89.333
In-1	115	97.675	
Mo	97		101.881
Ag	107		105.118
Cd	111		95.733
Sb	123		86.803
Ba	135		105.857
Au-1	197	98.781	

	Tl	205		94.238
	Pb	208		105.048
	U	238		101.104
>	In-2	115	97.675	
	Ba	137		109.026
>	Au-2	197	98.781	
	Pb	206		105.090
	Pb	207		104.860

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Ca	44	Q
Zn	66	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4
Sample Date/Time: Monday, April 12, 2010 23:50:17
Autosampler Position: 5
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 4.102

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			221255.581	ug/L	219065.440
	23	Na	10101.572571	0.538	34240795.443	ug/L	11860.377
	24	Mg	10230.699878	2.740	22971163.222	ug/L	3830.886
	27	Al	10354.380706	4.314	34798238.773	ug/L	6628.604
	39	K	10328.830601	2.438	62754890.979	ug/L	716897.807
	44	Ca	9545.813335	3.561	2138965.424	ug/L	91324.351
	57	Fe	10323.484344	3.030	2280499.140	ug/L	12818.592
	9	Be	-0.100726	5.857	15.667	ug/L	48.334
	51	V	0.175954	978.824	-29455.563	ug/L	-30646.865
	52	Cr	-0.170051	131.765	29312.681	ug/L	30184.830
	55	Mn	-0.079287	4.439	3224.396	ug/L	4011.938
	59	Co	-0.095934	5.816	747.694	ug/L	1537.098
	60	Ni	0.219104	9.520	1294.405	ug/L	860.035
>	72	Ge-1			318865.998	ug/L	321356.208
	65	Cu	0.182374	22.081	1523.763	ug/L	1104.721
	66	Zn	1.343588	17.738	7154.863	ug/L	5408.412
	75	As	0.620640	118.482	21.537	ug/L	-1011.066
	82	Se	0.079255	581.391	54.657	ug/L	39.252
>	115	In-1			603972.416	ug/L	628564.297
	97	Mo	209.545998	1.933	434294.651	ug/L	1099.053
	107	Ag	-0.010114	44.440	629.354	ug/L	756.028
	111	Cd	0.167130	15.952	749.361	ug/L	402.343
	123	Sb	-0.380500	22.388	3426.758	ug/L	5839.772
	135	Ba	-0.066440	11.284	270.672	ug/L	419.010
>	197	Au-1			834823.166	ug/L	871438.669
	205	Tl	-0.112532	105.554	10267.587	ug/L	12873.293
	208	Pb	-0.107896	9.301	2836.801	ug/L	5892.860
	238	U	-0.128201	5.098	1129.057	ug/L	4539.435
>	115	In-2			603972.416	ug/L	628564.297
	137	Ba	-0.059146	14.986	453.345	ug/L	677.690
>	197	Au-2			834823.166	ug/L	871438.669
	206	Pb	-0.099683	14.844	737.693	ug/L	1442.421
	207	Pb	-0.114344	11.040	686.023	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	101.000	
	Na	23		101.016
	Mg	24		102.307
	Al	27		103.544
	K	39		103.288
	Ca	44		95.458
	Fe	57		103.235
	Be	9		-20.145
	V	51		1.760
	Cr	52		-1.701
	Mn	55		-3.964
	Co	59		-9.593
	Ni	60		21.910
>	Ge-1	72	99.225	
	Cu	65		18.237
	Zn	66		26.872
	As	75		62.064
	Se	82		7.926
>	In-1	115	96.068	
	Mo	97		104.773
	Ag	107		-1.011
	Cd	111		33.426
	Sb	123		-38.050
	Ba	135		-6.644

	Tl	205		-5.627
	Pb	208		-3.597
	U	238		-12.820
>	In-2	115	96.088	
	Ba	137		-5.915
>	Au-2	197	95.798	
	Pb	206		-9.968
	Pb	207		-11.434

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5
Sample Date/Time: Monday, April 12, 2010 23:55:20
Autosampler Position: 6
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 5.103

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			218159.498	ug/L	219065.440
|	23	Na	10500.390281	2.864	35084611.738	ug/L	11860.377
|	24	Mg	10522.904371	3.901	23285090.678	ug/L	3830.886
|	27	Al	10467.471207	4.365	34679847.157	ug/L	6628.604
|	39	K	10217.515529	4.608	61177386.766	ug/L	716897.807
|	44	Ca	9521.902367	0.401	2105190.249	ug/L	91324.351
|	57	Fe	10556.293067	2.609	2298967.430	ug/L	12818.592
|	9	Be	103.810695	3.324	33675.314	ug/L	48.334
|	51	V	113.068335	3.980	787361.563	ug/L	-30646.865
|	52	Cr	107.990924	4.669	747400.863	ug/L	30184.830
|	55	Mn	110.111842	3.578	1137067.938	ug/L	4011.938
|	59	Co	109.835179	2.703	910122.074	ug/L	1537.098
⌊	60	Ni	106.771395	4.022	205611.900	ug/L	860.035
⌈>	72	Ge-1			315433.645	ug/L	321356.208
|	65	Cu	101.756689	3.503	238268.117	ug/L	1104.721
|	66	Zn	102.258915	2.455	140489.155	ug/L	5408.412
|	75	As	104.160721	1.996	164259.109	ug/L	-1011.066
⌊	82	Se	102.740764	4.389	17960.550	ug/L	39.252
⌈>	115	In-1			613756.486	ug/L	628564.297
|	97	Mo	203.912097	0.734	429525.525	ug/L	1099.053
|	107	Ag	19.996662	0.425	195755.121	ug/L	756.028
|	111	Cd	102.843943	1.567	227335.900	ug/L	402.343
|	123	Sb	51.867124	2.806	308680.144	ug/L	5839.772
⌊	135	Ba	104.697347	2.216	211743.312	ug/L	419.010
⌈>	197	Au-1			843329.625	ug/L	871438.669
|	205	Tl	98.562933	1.116	1857568.910	ug/L	12873.293
|	208	Pb	102.262980	1.642	2696724.171	ug/L	5892.860
⌊	238	U	101.709943	2.879	2585319.596	ug/L	4539.435
⌈>	115	In-2			613756.486	ug/L	628564.297
⌊	137	Ba	107.118695	0.691	365070.486	ug/L	677.690
⌈>	197	Au-2			843329.625	ug/L	871438.669
|	206	Pb	103.518206	1.634	677879.612	ug/L	1442.421
⌊	207	Pb	105.093408	1.430	611217.486	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	99.586	
|	Na	23		105.004
|	Mg	24		105.229
|	Al	27		104.675
|	K	39		102.175
|	Ca	44		95.219
|	Fe	57		105.563
|	Be	9		103.811
|	V	51		113.068
|	Cr	52		107.991
|	Mn	55		110.112
|	Co	59		109.835
⌊	Ni	60		106.771
⌈>	Ge-1	72	98.157	
|	Cu	65		101.757
|	Zn	66		102.259
|	As	75		104.161
⌊	Se	82		102.741
⌈>	In-1	115	97.644	
|	Mo	97		101.956
|	Ag	107		99.983
|	Cd	111		102.844
|	Sb	123		103.734
⌊	Ba	135		104.697
⌈>	Au-1	197	98.774	

!	Tl	205		96.563
|	Pb	208		102.263
L	U	238		101.710
Γ>	In-2	115	97.644	
L	Ba	137		107.118
Γ>	Au-2	197	96.774	
|	Pb	208		103.518
_	Pb	207		105.083

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 00:02:22
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.104

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			220634.819	ug/L	219065.440
|	23	Na	3858.098587	3.278	13043126.028	ug/L	11860.377
|	24	Mg	7809.083346	1.913	17486766.594	ug/L	3830.886
|	27	Al	3942.787198	0.733	13227625.567	ug/L	6628.604
|	39	K	3876.088520	0.649	23941783.218	ug/L	716897.807
|	44	Ca	7888.830594	4.254	1778755.980	ug/L	91324.351
|	57	Fe	7942.708775	1.626	1753414.987	ug/L	12818.592
|	9	Be	996.678959	3.038	326652.738	ug/L	48.334
|	51	V	950.090972	2.687	6922189.976	ug/L	-30646.865
|	52	Cr	957.782543	2.063	6470503.687	ug/L	30184.830
|	55	Mn	972.882289	2.103	10135235.234	ug/L	4011.938
|	59	Co	969.251261	2.118	8117831.137	ug/L	1537.098
⌊	60	Ni	959.948372	2.610	1863722.411	ug/L	860.035
⌈>	72	Ge-1			307630.738	ug/L	321356.208
|	65	Cu	976.305521	0.939	2221342.333	ug/L	1104.721
|	66	Zn	972.551169	3.110	1259339.025	ug/L	5408.412
|	75	As	958.163723	2.008	1481791.831	ug/L	-1011.066
⌊	82	Se	980.674973	0.451	166990.768	ug/L	39.252
⌈>	115	In-1			590307.701	ug/L	628564.297
|	97	Mo	1009.475914	1.284	2041327.017	ug/L	1099.053
|	107	Ag	191.101192	2.151	1792971.528	ug/L	756.028
|	111	Cd	1000.062659	2.213	2122747.160	ug/L	402.343
|	123	Sb	509.387185	1.677	2867331.561	ug/L	5839.772
⌊	135	Ba	991.445256	1.035	1925305.202	ug/L	419.010
⌈>	197	Au-1			827512.508	ug/L	871438.669
|	205	Tl	1003.092364	2.588	18434768.447	ug/L	12873.293
|	208	Pb	995.063567	1.841	25697196.885	ug/L	5892.860
⌊	238	U	1008.802279	1.822	25121340.723	ug/L	4539.435
⌈>	115	In-2			590307.701	ug/L	628564.297
⌊	137	Ba	1009.418028	1.871	3303089.591	ug/L	677.690
⌈>	197	Au-2			827512.508	ug/L	871438.669
|	206	Pb	1016.064863	1.444	6516463.743	ug/L	1442.421
⌊	207	Pb	997.017024	1.489	5678234.157	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	100.716	
|	Na	23		96.452
|	Mg	24		97.614
|	Al	27		98.570
|	K	39		96.902
|	Ca	44		98.610
|	Fe	57		99.284
|	Be	9		99.668
|	V	51		95.009
|	Cr	52		95.778
|	Mn	55		97.288
|	Co	59		96.925
⌊	Ni	60		95.995
⌈>	Ge-1	72	95.729	
|	Cu	65		97.631
|	Zn	66		97.255
|	As	75		95.816
⌊	Se	82		98.087
⌈>	In-1	115	93.914	
|	Mo	97		100.948
|	Ag	107		95.551
|	Cd	111		100.006
|	Sb	123		101.877
⌊	Ba	135		99.145
⌈>	Au-1	197	94.959	

!	Tl	205		100.309
!	Pb	208		99.506
L	U	238		100.880
⌈>	In-2	115	93.914	
L	Ba	137		100.942
⌈>	Au-2	197	94.959	
	Pb	206		101.606
L	Pb	207		99.702

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 00:07:25
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.105

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212547.994	ug/L	219065.440
	23	Na	2.653537	1.836	20147.739	ug/L	11860.377
	24	Mg	4.197549	19.785	12756.550	ug/L	3830.886
	27	Al	2.533725	24.567	14598.012	ug/L	6628.604
	39	K	4.580901	80.033	721741.905	ug/L	716897.807
	44	Ca	38.415873	29.262	96495.436	ug/L	91324.351
	57	Fe	4.474868	40.919	13377.247	ug/L	12818.592
	9	Be	0.340310	24.379	154.336	ug/L	48.334
	51	V	2.051015	84.845	-15118.359	ug/L	-30646.865
	52	Cr	0.125618	170.488	30084.297	ug/L	30184.830
	55	Mn	0.343834	18.025	7336.630	ug/L	4011.938
	59	Co	0.349811	18.869	4307.031	ug/L	1537.098
	60	Ni	0.300935	21.832	1396.082	ug/L	860.035
>	72	Ge-1			299760.091	ug/L	321356.208
	65	Cu	0.359079	10.537	1827.469	ug/L	1104.721
	66	Zn	0.781757	11.999	6025.664	ug/L	5408.412
	75	As	1.100911	30.575	722.765	ug/L	-1011.066
	82	Se	0.494507	75.038	117.893	ug/L	39.252
>	115	In-1			608551.739	ug/L	628564.297
	97	Mo	1.078605	27.267	3314.761	ug/L	1099.053
	107	Ag	0.071926	6.015	1426.752	ug/L	756.028
	111	Cd	0.321499	9.879	1091.719	ug/L	402.343
	123	Sb	2.143244	35.127	18100.772	ug/L	5839.772
	135	Ba	0.301886	21.080	1008.379	ug/L	419.010
>	197	Au-1			847983.999	ug/L	871438.669
	205	Tl	1.334612	38.470	37708.436	ug/L	12873.293
	208	Pb	0.360027	2.447	15259.653	ug/L	5892.860
	238	U	0.389444	7.707	14352.027	ug/L	4539.435
>	115	In-2			608551.739	ug/L	628564.297
	137	Ba	0.321049	14.451	1736.790	ug/L	677.690
>	197	Au-2			847983.999	ug/L	871438.669
	206	Pb	0.351110	6.578	3710.186	ug/L	1442.421
	207	Pb	0.372264	3.700	3535.139	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.025	
	Na	23		285.354
	Mg	24		419.755
	Al	27		253.373
	K	39		458.090
	Ca	44		3841.587
	Fe	57		447.487
	Be	9		34.031
	V	51		205.102
	Cr	52		12.562
	Mn	55		34.383
	Co	59		34.981
	Ni	60		30.093
>	Ge-1	72	93.280	
	Cu	65		35.908
	Zn	66		78.176
	As	75		110.091
	Se	82		49.451
>	In-1	115	96.816	
	Mo	97		107.861
	Ag	107		7.193
	Cd	111		32.150
	Sb	123		214.324
	Ba	135		30.189

	Tl	205		133.461
	Pb	208		36.003
	U	238		38.944
>	In-2	115	96.816	
	Ba	137		32.105
>	Au-2	197	97.309	
	Pb	206		35.111
	Pb	207		37.226

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
As	75	Q
Mo	97	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE
Sample Date/Time: Tuesday, April 13, 2010 00:12:27
Autosampler Position: 242
Dataset File: D:\Elandata\Dataset\041210M1\TRACE.106

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			215437.551	ug/L	219065.440
	23	Na	62.164676	3.281	216641.132	ug/L	11860.377
	24	Mg	62.183675	2.116	139685.096	ug/L	3830.886
	27	Al	37.496465	2.637	129268.946	ug/L	6628.604
	39	K	117.179255	5.844	1389613.939	ug/L	716897.807
	44	Ca	161.794980	14.413	123507.524	ug/L	91324.351
	57	Fe	59.233449	5.639	25274.455	ug/L	12818.592
	9	Be	0.537979	13.960	220.004	ug/L	48.334
	51	V	11.982042	4.345	55438.368	ug/L	-30646.865
	52	Cr	11.695232	4.293	106402.510	ug/L	30184.830
	55	Mn	2.480535	3.766	29158.373	ug/L	4011.938
	59	Co	2.458527	4.038	21591.523	ug/L	1537.098
	60	Ni	5.895089	3.737	12011.502	ug/L	860.035
>	72	Ge-1			313398.133	ug/L	321356.208
	65	Cu	1.206735	2.186	3873.230	ug/L	1104.721
	66	Zn	8.295359	0.713	16174.313	ug/L	5408.412
	75	As	10.951639	5.785	16281.015	ug/L	-1011.066
	82	Se	5.035717	7.868	911.600	ug/L	39.252
>	115	In-1			614787.391	ug/L	628564.297
	97	Mo	5.192126	3.087	11999.158	ug/L	1099.053
	107	Ag	2.124717	4.295	21483.695	ug/L	756.028
	111	Cd	0.540598	3.767	1588.438	ug/L	402.343
	123	Sb	5.405623	1.476	37339.304	ug/L	5839.772
	135	Ba	2.276430	3.355	5011.596	ug/L	419.010
>	197	Au-1			858133.579	ug/L	871438.669
	205	Tl	2.168827	2.451	53990.095	ug/L	12873.293
	208	Pb	3.314037	2.343	94514.957	ug/L	5892.860
	238	U	1.080742	2.374	32375.320	ug/L	4539.435
>	115	In-2			614787.391	ug/L	628564.297
	137	Ba	2.315514	1.116	8552.312	ug/L	677.690
>	197	Au-2			858133.579	ug/L	871438.669
	206	Pb	3.322230	3.706	23500.216	ug/L	1442.421
	207	Pb	3.278838	1.899	20737.250	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.344	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.524	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	97.808	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	98.473	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	97.808
	Ba	137	
>	Au-2	197	98.473
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: 1PPM
Sample Date/Time: Tuesday, April 13, 2010 00:17:00
Autosampler Position: 243
Dataset File: D:\Elandata\Dataset\041210M1\1PPM.107

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			215070.068	ug/L	219065.440
	23	Na	3.670771	4.632	23733.612	ug/L	11860.377
	24	Mg	5.046876	3.435	14773.116	ug/L	3830.886
	27	Al	11.167364	2.845	43003.077	ug/L	6628.604
	39	K	1.355988	179.548	711575.351	ug/L	716897.807
	44	Ca	292.587037	5.825	150628.791	ug/L	91324.351
	57	Fe	-3.968593	13.460	11736.539	ug/L	12818.592
	9	Be	1021.105743	2.052	326289.416	ug/L	48.334
	51	V	983.984106	0.190	6992322.772	ug/L	-30646.865
	52	Cr	1010.843427	0.932	6654657.584	ug/L	30184.830
	55	Mn	1003.505737	0.827	10189266.354	ug/L	4011.938
	59	Co	1019.697082	2.350	8319826.870	ug/L	1537.098
	60	Ni	976.934204	2.356	1848794.288	ug/L	860.035
>	72	Ge-1			305895.088	ug/L	321356.208
	65	Cu	995.223148	1.727	2251596.021	ug/L	1104.721
	66	Zn	979.795894	2.205	1261627.223	ug/L	5408.412
	75	As	977.540081	1.582	1503380.679	ug/L	-1011.066
	82	Se	969.161658	1.094	164112.929	ug/L	39.252
>	115	In-1			585062.162	ug/L	628564.297
	97	Mo	1003.929859	2.481	2011922.091	ug/L	1099.053
	107	Ag	197.288497	2.389	1834434.448	ug/L	756.028
	111	Cd	1022.600752	0.901	2151458.275	ug/L	402.343
	123	Sb	513.271792	2.396	2863096.504	ug/L	5839.772
	135	Ba	997.903608	1.937	1920321.013	ug/L	419.010
>	197	Au-1			845653.155	ug/L	871438.669
	205	Tl	986.576577	1.421	18532431.880	ug/L	12873.293
	208	Pb	984.958103	1.281	25995204.066	ug/L	5892.860
	238	U	967.898655	2.278	24633395.747	ug/L	4539.435
>	115	In-2			585062.162	ug/L	628564.297
	137	Ba	1064.875741	1.855	3452982.426	ug/L	677.690
>	197	Au-2			845653.155	ug/L	871438.669
	206	Pb	985.775020	2.827	6461889.206	ug/L	1442.421
	207	Pb	1001.622405	2.348	5828952.602	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.176	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.189	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	93.078	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	97.044	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	93.079
|	Ba	137	
⌈>	Au-2	197	97.041
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Cr	52	H
Mn	55	H
Co	59	H
Mo	97	H
Cd	111	H
Sb	123	H
Ba	137	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 2PPM
Sample Date/Time: Tuesday, April 13, 2010 00:21:32
Autosampler Position: 244
Dataset File: D:\Elandata\Dataset\041210M1\2PPM.108

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			218169.239	ug/L	219065.440
	23	Na	16.654999	2.925	67464.001	ug/L	11860.377
	24	Mg	26.352638	0.681	62170.960	ug/L	3830.886
	27	Al	19.889051	2.295	72539.440	ug/L	6628.604
	39	K	-1.144464	280.207	707061.215	ug/L	716897.807
	44	Ca	534.066038	3.779	203905.377	ug/L	91324.351
	57	Fe	-7.410681	5.763	11160.829	ug/L	12818.592
	9	Be	1995.715772	1.628	647065.879	ug/L	48.334
	51	V	1958.331241	1.060	14145710.986	ug/L	-30646.865
	52	Cr	1933.032838	0.636	12883408.076	ug/L	30184.830
	55	Mn	1991.793651	1.435	20513049.432	ug/L	4011.938
	59	Co	1936.152175	2.979	16025025.756	ug/L	1537.098
	60	Ni	1935.014411	3.030	3714308.336	ug/L	860.035
>	72	Ge-1			298353.839	ug/L	321356.208
	65	Cu	1949.121530	0.996	4300015.025	ug/L	1104.721
	66	Zn	1960.822781	1.226	2457565.113	ug/L	5408.412
	75	As	1987.610964	1.194	2982478.671	ug/L	-1011.066
	82	Se	1972.442350	1.481	325686.926	ug/L	39.252
>	115	In-1			578900.696	ug/L	628564.297
	97	Mo	2073.829919	3.571	4108367.876	ug/L	1099.053
	107	Ag	401.995811	3.629	3695195.702	ug/L	756.028
	111	Cd	1993.620088	2.626	4147605.462	ug/L	402.343
	123	Sb	1028.874881	4.081	5669464.538	ug/L	5839.772
	135	Ba	2041.001898	4.756	3882678.034	ug/L	419.010
>	197	Au-1			833315.849	ug/L	871438.669
	205	Tl	1965.273749	1.630	36372493.418	ug/L	12873.293
	208	Pb	1957.919009	1.321	50918834.799	ug/L	5892.860
	238	U	2011.991436	1.923	50445653.565	ug/L	4539.435
>	115	In-2			578900.696	ug/L	628564.297
	137	Ba	2068.346646	5.675	6627901.658	ug/L	677.690
>	197	Au-2			833315.849	ug/L	871438.669
	206	Pb	1979.028289	2.099	12779478.104	ug/L	1442.421
	207	Pb	1968.814090	1.367	11290568.802	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	99.591	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.842	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	92.099	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	95.205	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	92.099
	Ba	137	
>	Au-2	197	95.625
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Cu	65	H
Zn	68	H
As	75	H
Se	82	H
Mo	97	H
Ag	107	H
Cd	111	H
Sb	123	H
Ba	135	H
Tl	205	H
Pb	208	H
U	238	H
Ba	137	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 00:26:05
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.109

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			218076.891	ug/L	219065.440
|	23	Na	3838.164901	3.736	12819623.229	ug/L	11860.377
|	24	Mg	7890.074583	2.292	17458643.488	ug/L	3830.886
|	27	Al	3955.942561	2.299	13111048.176	ug/L	6628.604
|	39	K	3964.627480	4.589	24162821.817	ug/L	716897.807
|	44	Ca	7996.135591	4.111	1780073.448	ug/L	91324.351
|	57	Fe	7989.619463	5.665	1740998.749	ug/L	12818.592
|	9	Be	1002.033011	2.958	324511.420	ug/L	48.334
|	51	V	977.444384	4.723	7034912.057	ug/L	-30646.865
|	52	Cr	975.960590	2.708	6512457.811	ug/L	30184.830
|	55	Mn	979.195568	5.041	10070945.712	ug/L	4011.938
|	59	Co	980.852218	1.713	8113826.305	ug/L	1537.098
⌊	60	Ni	963.809437	2.468	1848945.395	ug/L	860.035
⌈>	72	Ge-1			301503.812	ug/L	321356.208
|	65	Cu	986.668546	1.070	2200438.091	ug/L	1104.721
|	66	Zn	965.931446	1.742	1226155.496	ug/L	5408.412
|	75	As	977.649125	1.702	1482076.934	ug/L	-1011.066
⌊	82	Se	1011.755276	1.829	168852.882	ug/L	39.252
⌈>	115	In-1			566516.654	ug/L	628564.297
|	97	Mo	1003.130686	1.143	1946499.059	ug/L	1099.053
|	107	Ag	195.479293	2.343	1760191.019	ug/L	756.028
|	111	Cd	1025.750223	0.606	2089781.932	ug/L	402.343
|	123	Sb	529.086773	1.551	2858286.326	ug/L	5839.772
⌊	135	Ba	1001.749048	0.817	1866999.086	ug/L	419.010
⌈>	197	Au-1			818547.893	ug/L	871438.669
|	205	Tl	1001.656929	2.245	18213215.161	ug/L	12873.293
|	208	Pb	1014.271522	0.575	25913776.268	ug/L	5892.860
⌊	238	U	1012.139388	2.150	24932769.253	ug/L	4539.435
⌈>	115	In-2			566516.654	ug/L	628564.297
⌊	137	Ba	1053.794016	3.471	3309084.862	ug/L	677.690
⌈>	197	Au-2			818547.893	ug/L	871438.669
|	206	Pb	1023.940521	0.776	6496980.157	ug/L	1442.421
⌊	207	Pb	1013.587551	0.996	5710589.459	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	99.549	
|	Na	23		95.954
|	Mg	24		98.826
|	Al	27		98.899
|	K	39		99.116
|	Ca	44		99.952
|	Fe	57		99.870
|	Be	9		100.203
|	V	51		97.744
|	Cr	52		97.596
|	Mn	55		97.920
|	Co	59		98.085
⌊	Ni	60		96.381
⌈>	Ge-1	72	93.822	
|	Cu	65		98.667
|	Zn	66		96.593
|	As	75		97.765
⌊	Se	82		101.176
⌈>	In-1	115	90.129	
|	Mo	97		100.313
|	Ag	107		97.740
|	Cd	111		102.575
|	Sb	123		105.817
⌊	Ba	135		100.175
⌈>	Au-1	197	93.931	

|	Tl	205		100.166
|	Pb	208		101.427
L	U	238		101.214
⌈>	In-2	115	90.129	
L	Ba	137		105.379
⌈>	Au-2	197	93.931	
¦	Pb	206		102.394
L	Pb	207		101.359

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 00:31:08
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.110

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			211084.585	ug/L	219065.440
	23	Na	1.351309	31.014	15769.207	ug/L	11860.377
	24	Mg	2.666162	40.041	9375.945	ug/L	3830.886
	27	Al	1.309383	44.296	10567.417	ug/L	6628.604
	39	K	4.317962	116.198	714916.162	ug/L	716897.807
	44	Ca	36.866289	41.538	95475.950	ug/L	91324.351
	57	Fe	5.154331	69.608	13426.192	ug/L	12818.592
	9	Be	0.400192	36.562	171.669	ug/L	48.334
	51	V	0.868365	188.336	-23220.626	ug/L	-30646.865
	52	Cr	0.268534	176.578	30760.519	ug/L	30184.830
	55	Mn	0.452480	41.198	8352.930	ug/L	4011.938
	59	Co	0.440394	41.707	4991.301	ug/L	1537.098
	60	Ni	0.410377	43.061	1586.439	ug/L	860.035
>	72	Ge-1			297791.482	ug/L	321356.208
	65	Cu	0.438482	36.057	1988.828	ug/L	1104.721
	66	Zn	0.883728	24.643	6113.704	ug/L	5408.412
	75	As	0.990065	45.452	555.830	ug/L	-1011.066
	82	Se	0.619718	30.938	138.739	ug/L	39.252
>	115	In-1			587466.114	ug/L	628564.297
	97	Mo	1.341875	14.493	3722.191	ug/L	1099.053
	107	Ag	0.099471	20.162	1635.111	ug/L	756.028
	111	Cd	0.448758	32.111	1324.744	ug/L	402.343
	123	Sb	3.715342	29.657	26171.677	ug/L	5839.772
	135	Ba	0.414405	43.178	1193.065	ug/L	419.010
>	197	Au-1			829418.376	ug/L	871438.669
	205	Tl	1.464837	32.275	39178.998	ug/L	12873.293
	208	Pb	0.515266	23.509	18966.203	ug/L	5892.860
	238	U	0.519053	27.043	17298.618	ug/L	4539.435
>	115	In-2			587466.114	ug/L	628564.297
	137	Ba	0.421682	40.367	2007.835	ug/L	677.690
>	197	Au-2			829418.376	ug/L	871438.669
	206	Pb	0.509799	24.085	4654.821	ug/L	1442.421
	207	Pb	0.518782	23.042	4299.035	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.357	
	Na	23		135.131
	Mg	24		266.616
	Al	27		130.938
	K	39		431.796
	Ca	44		3686.629
	Fe	57		515.433
	Be	9		40.019
	V	51		86.836
	Cr	52		26.853
	Mn	55		45.248
	Co	59		44.039
	Ni	60		41.038
>	Ge-1	72	92.667	
	Cu	65		43.848
	Zn	66		88.373
	As	75		99.007
	Se	82		61.972
>	In-1	115	93.462	
	Mo	97		134.188
	Ag	107		9.947
	Cd	111		44.876
	Sb	123		371.534
	Ba	135		41.440
>	Au-1	197	[illegible]	

|	Tl	205		146.484
|	Pb	206		51.527
L	U	238		51.905
⌈>	In-2	115	93.462	
L	Ba	137		42.168
⌈>	Au-2	197	95.178	
|	Pb	206		50.980
L	Pb	207		51.878

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mo	97	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: 20 PPM
Sample Date/Time: Tuesday, April 13, 2010 00:36:10
Autosampler Position: 245
Dataset File: D:\Elandata\Dataset\041210M1\20 PPM.111

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212898.586	ug/L	219065.440
	23	Na	20249.005754	1.420	66031074.680	ug/L	11860.377
	24	Mg	20215.020172	2.634	43672712.942	ug/L	3830.886
	27	Al	20404.187555	2.621	66011196.166	ug/L	6628.604
	39	K	20192.890291	5.332	117336181.051	ug/L	716897.607
	44	Ca	18443.336711	3.470	3894412.614	ug/L	91324.351
	57	Fe	20172.953882	5.143	4275300.562	ug/L	12818.592
	9	Be	-0.055781	6.530	29.334	ug/L	48.334
	51	V	-0.916632	78.227	-36330.483	ug/L	-30646.865
	52	Cr	-0.073875	260.209	28847.079	ug/L	30184.830
	55	Mn	0.025435	95.880	4151.979	ug/L	4011.938
	59	Co	-0.015068	103.469	1371.080	ug/L	1537.098
	60	Ni	0.609477	7.925	1976.156	ug/L	860.035
>	72	Ge-1			308842.673	ug/L	321356.208
	65	Cu	0.535805	7.341	2285.539	ug/L	1104.721
	66	Zn	1.727164	7.027	7435.010	ug/L	5408.412
	75	As	0.861674	21.119	369.091	ug/L	-1011.066
	82	Se	0.029647	1357.885	43.029	ug/L	39.252
>	115	In-1			574498.699	ug/L	628564.297
	97	Mo	430.342709	2.624	847327.809	ug/L	1099.053
	107	Ag	0.032746	18.734	990.044	ug/L	756.028
	111	Cd	0.595148	6.520	1596.439	ug/L	402.343
	123	Sb	1.049141	28.515	11072.050	ug/L	5839.772
	135	Ba	-0.051475	36.143	286.006	ug/L	419.010
>	197	Au-1			805483.345	ug/L	871438.669
	205	Tl	0.280634	84.924	16887.199	ug/L	12873.293
	208	Pb	0.013726	65.380	5790.507	ug/L	5892.860
	238	U	-0.065349	14.698	2612.266	ug/L	4539.435
>	115	In-2			574498.699	ug/L	628564.297
	137	Ba	-0.028863	23.462	527.682	ug/L	677.690
>	197	Au-2			805483.345	ug/L	871438.669
	206	Pb	0.018437	27.168	1448.088	ug/L	1442.421
	207	Pb	0.012517	67.133	1364.079	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.185	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.106	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.399	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		

	Tl	205	
	Pb	206	
	U	238	
>	In-2	115	91.399
	Ba	137	
>	Au-2	197	92.431
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Al	27	H
K	39	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 50 PPM
Sample Date/Time: Tuesday, April 13, 2010 00:40:43
Autosampler Position: 246
Dataset File: D:\Elandata\Dataset\041210M1\50 PPM.112

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			211647.364	ug/L	219065.440
23	Na	52327.985444	4.659	169484206.705	ug/L	11860.377
24	Mg	51461.272215	4.631	110456205.872	ug/L	3830.886
27	Al	51663.595746	2.044	166124196.413	ug/L	6628.604
39	K	51600.396747	6.823	296806058.395	ug/L	716897.807
44	Ca	47870.382083	2.236	9908013.978	ug/L	91324.351
57	Fe	53092.620126	5.405	11161494.754	ug/L	12818.592
9	Be	-0.129231	7.854	6.000	ug/L	48.334
51	V	-1.785271	89.681	-42094.255	ug/L	-30646.865
52	Cr	1.201047	18.031	36885.942	ug/L	30184.830
55	Mn	0.093725	21.932	4808.191	ug/L	4011.938
59	Co	0.061264	18.222	1975.156	ug/L	1537.098
60	Ni	9.523201	5.135	18545.552	ug/L	860.035
72	Ge-1			320932.653	ug/L	321356.208
65	Cu	1.150500	4.287	3831.219	ug/L	1104.721
66	Zn	3.518099	2.903	10133.027	ug/L	5408.412
75	As	-0.194078	229.046	-1330.998	ug/L	-1011.066
82	Se	-0.398532	27.088	-31.741	ug/L	39.252
115	In-1			576712.651	ug/L	628564.297
97	Mo	1057.105830	2.084	2087775.069	ug/L	1099.053
107	Ag	0.056811	2.816	1232.732	ug/L	756.028
111	Cd	1.506325	3.600	3491.795	ug/L	402.343
123	Sb	0.358927	44.098	7319.670	ug/L	5839.772
135	Ba	-0.033471	25.867	321.007	ug/L	419.010
197	Au-1			788799.729	ug/L	871438.669
205	Tl	-0.114773	87.829	9633.409	ug/L	12873.293
208	Pb	0.052108	19.232	6615.324	ug/L	5892.860
238	U	-0.134153	2.953	924.039	ug/L	4539.435
115	In-2			576712.651	ug/L	628564.297
137	Ba	-0.033913	4.838	513.348	ug/L	677.690
197	Au-2			788799.729	ug/L	871438.669
206	Pb	0.055336	39.673	1643.778	ug/L	1442.421
207	Pb	0.049032	26.524	1534.098	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	96.614	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	99.868	
Cu	65		
Zn	66		
As	75		
Se	82		
In-1	115	91.751	
Mo	97		
Ag	107		
Cd	111		
Sb	123		
Ba	135		
Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	91.751
|	Ba	137	
⌈>	Au-2	197	98.517
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Mo	97	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 200 PPM
Sample Date/Time: Tuesday, April 13, 2010 00:45:15
Autosampler Position: 247
Dataset File: D:\Elandata\Dataset\041210M1\200 PPM.113

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			205409.880	ug/L	219065.440
	23	Na	S	S	S	ug/L	11860.377
	24	Mg	190942.341693	2.560	398021114.696	ug/L	3830.886
	27	Al	S	S	S	ug/L	6628.604
	39	K	S	S	S	ug/L	716897.807
	44	Ca	187855.313020	0.425	37500788.066	ug/L	91324.351
	57	Fe	206219.999715	1.892	42086696.831	ug/L	12818.592
	9	Be	-0.128804	5.116	6.000	ug/L	48.334
	51	V	-1.965695	50.494	-42057.104	ug/L	-30646.865
	52	Cr	5.380767	4.925	61995.302	ug/L	30184.830
	55	Mn	0.652605	0.366	10088.663	ug/L	4011.938
	59	Co	0.621281	11.791	6283.119	ug/L	1537.098
	60	Ni	5.961253	8.227	11583.165	ug/L	860.035
>	72	Ge-1			369771.068	ug/L	321356.208
	65	Cu	4.073019	1.961	12405.175	ug/L	1104.721
	66	Zn	9.009571	2.647	20191.132	ug/L	5408.412
	75	As	0.235891	598.717	-737.268	ug/L	-1011.066
	82	Se	-2.951776	23.389	-559.038	ug/L	39.252
>	115	In-1			564402.110	ug/L	628564.297
	97	Mo	4339.104572	2.232	8381256.353	ug/L	1099.053
	107	Ag	0.284540	2.820	3232.399	ug/L	756.028
	111	Cd	6.630054	1.277	13817.157	ug/L	402.343
	123	Sb	0.436413	31.525	7570.323	ug/L	5839.772
	135	Ba	0.245888	12.265	831.366	ug/L	419.010
>	197	Au-1			732975.910	ug/L	871438.669
	205	Tl	-0.147772	42.953	8421.257	ug/L	12873.293
	208	Pb	0.219710	2.038	9981.779	ug/L	5892.860
	238	U	-0.150126	2.239	506.347	ug/L	4539.435
>	115	In-2			564402.110	ug/L	628564.297
	137	Ba	0.205039	9.769	1249.734	ug/L	677.690
>	197	Au-2			732975.910	ug/L	871438.669
	206	Pb	0.234693	5.878	2546.919	ug/L	1442.421
	207	Pb	0.211539	3.979	2245.199	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.766	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	115.068	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	89.792	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	84.111	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	89.792
	Ba	137	
>	Au-2	197	84.111
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Fe	57	H
Mo	97	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE ZN 10
Sample Date/Time: Tuesday, April 13, 2010 00:49:48
Autosampler Position: 191
Dataset File: D:\Elandata\Dataset\041210M1\TRACE ZN 10.114

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			220866.187	ug/L	219065.440
	23	Na	158.617183	22.243	547693.958	ug/L	11860.377
	24	Mg	148.076518	25.200	335339.743	ug/L	3830.886
	27	Al	123.290085	31.874	419944.124	ug/L	6628.604
	39	K	199.032956	15.979	1913844.630	ug/L	716897.807
	44	Ca	289.687408	14.038	153947.059	ug/L	91324.351
	57	Fe	163.034796	15.666	48627.923	ug/L	12818.592
	9	Be	0.848235	7.598	326.674	ug/L	48.334
	51	V	10.865851	21.218	48805.274	ug/L	-30646.865
	52	Cr	11.713440	0.585	109176.694	ug/L	30184.830
	55	Mn	2.782555	2.081	33017.443	ug/L	4011.938
	59	Co	2.881883	1.826	25674.978	ug/L	1537.098
	60	Ni	6.217962	1.642	12939.322	ug/L	860.035
>	72	Ge-1			328553.118	ug/L	321356.208
	65	Cu	1.523671	1.965	4830.532	ug/L	1104.721
	66	Zn	7.285628	2.068	15565.632	ug/L	5408.412
	75	As	10.655795	1.821	16580.516	ug/L	-1011.066
	82	Se	4.757446	13.179	905.100	ug/L	39.252
>	115	In-1			622711.492	ug/L	628564.297
	97	Mo	9.992818	5.479	22381.434	ug/L	1099.053
	107	Ag	2.198692	3.246	22489.914	ug/L	756.028
	111	Cd	0.962318	2.393	2554.254	ug/L	402.343
	123	Sb	4.532389	7.192	32619.613	ug/L	5839.772
	135	Ba	2.562499	4.171	5659.844	ug/L	419.010
>	197	Au-1			866777.802	ug/L	871438.669
	205	Tl	1.655829	14.386	44669.006	ug/L	12873.293
	208	Pb	3.459990	3.109	99421.587	ug/L	5892.860
	238	U	1.366646	1.053	40159.104	ug/L	4539.435
>	115	In-2			622711.492	ug/L	628564.297
	137	Ba	2.693983	3.862	9962.573	ug/L	677.690
>	197	Au-2			866777.802	ug/L	871438.669
	206	Pb	3.428424	1.329	24463.844	ug/L	1442.421
	207	Pb	3.401162	3.426	21673.982	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.731	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.240	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	99.069	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	99.069
	Ba	137	
>	Au-2	197	99.465
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEB
Sample Date/Time: Tuesday, April 13, 2010 00:54:19
Autosampler Position: 52
Dataset File: D:\Elandata\Dataset\041210M1\LXRAEB.115

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			231969.186	ug/L	219065.440
	23	Na	22.598014	5.023	92882.302	ug/L	11860.377
	24	Mg	2.369392	55.664	9677.967	ug/L	3830.886
	27	Al	4.581739	26.668	23228.309	ug/L	6628.604
	39	K	-0.390097	628.366	756620.879	ug/L	716897.807
	44	Ca	76.843368	17.805	113939.381	ug/L	91324.351
	57	Fe	20.491477	15.112	18302.594	ug/L	12818.592
	9	Be	-0.131166	4.111	6.000	ug/L	48.334
	51	V	-2.355429	114.086	-50294.414	ug/L	-30646.865
	52	Cr	0.607113	38.754	36228.255	ug/L	30184.830
	55	Mn	-0.041952	55.388	3784.873	ug/L	4011.938
	59	Co	-0.166523	1.656	161.669	ug/L	1537.098
	60	Ni	-0.130622	11.596	644.021	ug/L	860.035
>	72	Ge-1			336468.580	ug/L	321356.208
	65	Cu	-0.094771	21.252	920.706	ug/L	1104.721
	66	Zn	2.757448	8.018	9548.286	ug/L	5408.412
	75	As	0.730537	56.731	188.268	ug/L	-1011.066
	82	Se	0.074284	592.837	53.980	ug/L	39.252
>	115	In-1			645612.438	ug/L	628564.297
	97	Mo	0.613038	28.498	2485.245	ug/L	1099.053
	107	Ag	-0.027174	9.752	497.680	ug/L	756.028
	111	Cd	-0.148590	2.632	68.334	ug/L	402.343
	123	Sb	0.331832	26.564	8039.372	ug/L	5839.772
	135	Ba	-0.080397	7.922	259.672	ug/L	419.010
>	197	Au-1			841003.533	ug/L	871438.669
	205	Tl	-0.190358	65.591	8866.631	ug/L	12873.293
	208	Pb	-0.131958	1.140	2223.754	ug/L	5892.860
	238	U	-0.153330	1.494	500.347	ug/L	4539.435
>	115	In-2			645612.438	ug/L	628564.297
	137	Ba	-0.073337	6.982	433.678	ug/L	677.690
>	197	Au-2			841003.533	ug/L	871438.669
	206	Pb	-0.133384	2.540	522.681	ug/L	1442.421
	207	Pb	-0.130935	1.067	594.352	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.890	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	104.703	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	102.712	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	96.507	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	102.712
|	Ba	137	
⌈>	Au-2	197	96.507
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEC
Sample Date/Time: Tuesday, April 13, 2010 00:58:51
Autosampler Position: 53
Dataset File: D:\Elandata\Dataset\041210M1\LXRAEC.116

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			227151.995	ug/L	219065.440
	23	Na	9362.055539	1.795	32581381.510	ug/L	11860.377
	24	Mg	9434.107394	1.987	21752880.785	ug/L	3830.886
	27	Al	9489.468447	2.295	32765963.414	ug/L	6628.604
	39	K	9753.620723	2.443	60904264.358	ug/L	716897.807
	44	Ca	9503.062665	3.570	2187832.485	ug/L	91324.351
	57	Fe	9731.745908	3.015	2208798.383	ug/L	12818.592
	9	Be	907.467586	1.363	306357.558	ug/L	48.334
	51	V	929.039740	5.002	6971510.330	ug/L	-30646.865
	52	Cr	926.477634	0.535	6445145.450	ug/L	30184.830
	55	Mn	938.797153	2.577	10068431.917	ug/L	4011.938
	59	Co	961.106957	3.018	8283866.914	ug/L	1537.098
	60	Ni	928.413582	0.992	1856300.185	ug/L	860.035
>	72	Ge-1			326461.388	ug/L	321356.208
	65	Cu	880.286006	0.607	2125678.764	ug/L	1104.721
	66	Zn	859.149758	1.161	1181453.815	ug/L	5408.412
	75	As	870.356114	1.852	1428389.886	ug/L	-1011.066
	82	Se	862.906108	1.874	155934.082	ug/L	39.252
>	115	In-1			602544.944	ug/L	628564.297
	97	Mo	968.734103	1.657	1999499.891	ug/L	1099.053
	107	Ag	94.956560	3.293	909627.873	ug/L	756.028
	111	Cd	904.480385	0.423	1959927.228	ug/L	402.343
	123	Sb	475.641873	2.399	2733179.974	ug/L	5839.772
	135	Ba	922.121722	3.076	1827562.230	ug/L	419.010
>	197	Au-1			823882.854	ug/L	871438.669
	205	Tl	941.147485	0.676	17226358.582	ug/L	12873.293
	208	Pb	935.968534	1.315	24066965.503	ug/L	5892.860
	238	U	970.900074	1.379	24074988.333	ug/L	4539.435
>	115	In-2			602544.944	ug/L	628564.297
	137	Ba	988.403694	4.571	3300365.978	ug/L	677.690
>	197	Au-2			823882.854	ug/L	871438.669
	206	Pb	909.877712	1.578	5810051.131	ug/L	1442.421
	207	Pb	957.113648	2.059	5426913.410	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.691	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.589	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	95.861	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	94.543	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	95.861
|	Ba	137	
⌈>	Au-2	197	94.543
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVE
Sample Date/Time: Tuesday, April 13, 2010 01:03:22
Autosampler Position: 54
Dataset File: D:\Elandata\Dataset\041210M1\LXHVE.117

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			227852.943	ug/L	219065.440
	23	Na	115.504147	6.146	414875.060	ug/L	11860.377
	24	Mg	3.719551	1.415	12585.003	ug/L	3830.886
	27	Al	6.145805	2.220	28167.362	ug/L	6628.604
	39	K	167.586442	7.082	1780840.752	ug/L	716897.807
	44	Ca	134.846096	12.708	124697.106	ug/L	91324.351
	57	Fe	7.550173	27.348	15041.815	ug/L	12818.592
	9	Be	-0.103256	3.031	15.333	ug/L	48.334
	51	V	-3.860845	73.996	-60977.543	ug/L	-30646.865
	52	Cr	1.209140	29.950	39737.291	ug/L	30184.830
	55	Mn	0.078791	7.086	5020.266	ug/L	4011.938
	59	Co	-0.127243	17.626	503.015	ug/L	1537.098
	60	Ni	0.030209	6.416	955.041	ug/L	860.035
>	72	Ge-1			324883.795	ug/L	321356.208
	65	Cu	7.575589	1.979	19307.231	ug/L	1104.721
	66	Zn	15.050540	3.794	25958.159	ug/L	5408.412
	75	As	1.064760	17.905	717.077	ug/L	-1011.066
	82	Se	0.952512	42.337	210.250	ug/L	39.252
>	115	In-1			624754.491	ug/L	628564.297
	97	Mo	0.968178	39.066	3167.066	ug/L	1099.053
	107	Ag	-0.014810	35.717	604.686	ug/L	756.028
	111	Cd	-0.059894	42.158	265.672	ug/L	402.343
	123	Sb	0.059639	34.245	6159.582	ug/L	5839.772
	135	Ba	0.202125	5.814	831.699	ug/L	419.010
>	197	Au-1			841421.886	ug/L	871438.669
	205	Tl	0.982613	55.425	30706.138	ug/L	12873.293
	208	Pb	0.202274	18.945	10993.092	ug/L	5892.860
	238	U	-0.033223	206.118	3528.870	ug/L	4539.435
>	115	In-2			624754.491	ug/L	628564.297
	137	Ba	0.202407	9.865	1374.747	ug/L	677.690
>	197	Au-2			841421.886	ug/L	871438.669
	206	Pb	0.203195	14.292	2716.286	ug/L	1442.421
	207	Pb	0.202174	16.862	2521.582	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.011	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.098	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	99.394	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	99.394
	Ba	137	
>	Au-2	197	96.555
	Pb	208	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEV
Sample Date/Time: Tuesday, April 13, 2010 01:07:54
Autosampler Position: 55
Dataset File: D:\Elandata\Dataset\041210M1\LXHVEV.118

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			214674.250	ug/L	219065.440
	23	Na	25.147076	4.531	94278.866	ug/L	11860.377
	24	Mg	1.214963	70.374	6385.564	ug/L	3830.886
	27	Al	2.191603	41.785	13620.808	ug/L	6628.604
	39	K	38.281094	3.922	925607.997	ug/L	716897.807
	44	Ca	93.520454	11.064	108942.921	ug/L	91324.351
	57	Fe	-2.051369	50.821	12122.366	ug/L	12818.592
	9	Be	-0.089736	31.092	18.667	ug/L	48.334
	51	V	-1.010517	45.364	-37258.729	ug/L	-30646.865
	52	Cr	-0.027851	820.949	29384.846	ug/L	30184.830
	55	Mn	-0.071222	51.339	3206.728	ug/L	4011.938
	59	Co	-0.115146	26.040	566.352	ug/L	1537.098
	60	Ni	-0.086692	51.039	678.356	ug/L	860.035
>	72	Ge-1			317950.822	ug/L	321356.208
	65	Cu	1.429182	5.175	4452.739	ug/L	1104.721
	66	Zn	5.048449	3.975	12077.224	ug/L	5408.412
	75	As	0.615653	43.618	-19.307	ug/L	-1011.066
	82	Se	0.360974	19.157	102.156	ug/L	39.252
>	115	In-1			599100.817	ug/L	628564.297
	97	Mo	0.037007	183.109	1123.056	ug/L	1099.053
	107	Ag	-0.027647	13.311	458.012	ug/L	756.028
	111	Cd	-0.082459	29.644	206.670	ug/L	402.343
	123	Sb	-0.439932	2.569	3057.798	ug/L	5839.772
	135	Ba	-0.034621	72.787	332.007	ug/L	419.010
>	197	Au-1			834090.983	ug/L	871438.669
	205	Tl	-0.107826	48.389	10319.848	ug/L	12873.293
	208	Pb	-0.039969	70.236	4596.002	ug/L	5892.860
	238	U	-0.104407	27.716	1720.799	ug/L	4539.435
>	115	In-2			599100.817	ug/L	628564.297
	137	Ba	-0.034280	80.987	533.682	ug/L	677.590
>	197	Au-2			834090.983	ug/L	871438.669
	206	Pb	-0.042541	56.696	1104.721	ug/L	1442.421
	207	Pb	-0.041732	69.388	1100.721	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.895	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.940	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	95.313	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	95.714	

|	Tl	205	
|	Pb	206	
|	U	238	
⌈>	In-2	115	95.313
|	Ba	137	
⌈>	Au-2	197	95.714
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEX
Sample Date/Time: Tuesday, April 13, 2010 01:12:26
Autosampler Position: 56
Dataset File: D:\Elandata\Dataset\041210M1\LXHVEX.119

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			232007.218	ug/L	219065.440
	23	Na	108.054341	2.195	396481.700	ug/L	11860.377
	24	Mg	2.692464	3.764	10395.886	ug/L	3830.886
	27	Al	3.313864	4.313	18703.427	ug/L	6628.604
	39	K	149.179864	4.143	1698741.152	ug/L	716897.807
	44	Ca	98.139392	6.701	118787.675	ug/L	91324.351
	57	Fe	0.066441	1935.965	13589.129	ug/L	12818.592
	9	Be	-0.128216	5.883	7.000	ug/L	48.334
	51	V	-3.221343	74.484	-57385.918	ug/L	-30646.865
	52	Cr	1.259311	16.011	40868.154	ug/L	30184.830
	55	Mn	-0.036904	23.584	3844.222	ug/L	4011.938
	59	Co	-0.160596	1.682	214.337	ug/L	1537.098
	60	Ni	-0.064194	12.614	779.696	ug/L	860.035
>	72	Ge-1			328141.170	ug/L	321356.208
	65	Cu	7.114329	1.793	18382.671	ug/L	1104.721
	66	Zn	8.173636	3.174	16761.996	ug/L	5408.412
	75	As	-0.051049	457.597	-1122.548	ug/L	-1011.066
	82	Se	0.069986	619.174	51.796	ug/L	39.252
>	115	In-1			624336.891	ug/L	628564.297
	97	Mo	-0.057876	64.982	968.043	ug/L	1099.053
	107	Ag	-0.027458	8.720	478.346	ug/L	756.028
	111	Cd	-0.141494	0.726	82.001	ug/L	402.343
	123	Sb	-0.194946	7.658	4640.943	ug/L	5839.772
	135	Ba	0.098093	14.467	617.353	ug/L	419.010
>	197	Au-1			841099.295	ug/L	871438.669
	205	Tl	-0.240312	25.640	7923.299	ug/L	12873.293
	208	Pb	0.072292	7.771	7583.532	ug/L	5892.860
	238	U	-0.150093	2.585	581.018	ug/L	4539.435
>	115	In-2			624336.891	ug/L	628564.297
	137	Ba	0.118979	9.408	1084.385	ug/L	677.690
>	197	Au-2			841099.295	ug/L	871438.669
	206	Pb	0.068044	14.212	1835.136	ug/L	1442.421
	207	Pb	0.063527	14.836	1720.788	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.908	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.111	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	99.327	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	96.518	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	99.327
	Ba	137	
>	Au-2	197	98.518
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVES
Sample Date/Time: Tuesday, April 13, 2010 01:16:58
Autosampler Position: 57
Dataset File: D:\Elandata\Dataset\041210M1\LXHVES.120

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			230311.560	ug/L	219065.440
	23	Na	9449.166829	4.437	33329567.905	ug/L	11860.377
	24	Mg	9473.491896	2.600	22143765.674	ug/L	3830.886
	27	Al	9519.466569	0.643	33327354.104	ug/L	6628.604
	39	K	9943.400646	2.711	62923083.569	ug/L	716897.807
	44	Ca	9580.617452	2.122	2235258.993	ug/L	91324.351
	57	Fe	9839.687177	1.485	2264164.494	ug/L	12818.592
	9	Be	947.196780	3.021	324107.554	ug/L	48.334
	51	V	966.404426	1.714	7352110.558	ug/L	-30646.865
	52	Cr	954.233563	1.451	6728699.429	ug/L	30184.830
	55	Mn	949.239658	0.868	10321887.792	ug/L	4011.938
	59	Co	974.478678	1.138	8516801.481	ug/L	1537.098
	60	Ni	925.644851	2.179	1876564.526	ug/L	860.035
>	72	Ge-1			318966.885	ug/L	321356.208
	65	Cu	938.319245	1.340	2213411.353	ug/L	1104.721
	66	Zn	903.629216	0.824	1213701.056	ug/L	5408.412
	75	As	915.011731	3.198	1466781.305	ug/L	-1011.066
	82	Se	886.064704	1.877	156413.693	ug/L	39.252
>	115	In-1			591532.746	ug/L	628564.297
	97	Mo	1053.053542	2.178	2133240.533	ug/L	1099.053
	107	Ag	101.003813	2.679	949838.770	ug/L	756.028
	111	Cd	978.772787	0.518	2082131.167	ug/L	402.343
	123	Sb	504.415093	0.767	2845393.168	ug/L	5839.772
	135	Ba	996.748275	2.334	1939255.813	ug/L	419.010
>	197	Au-1			802723.992	ug/L	871438.669
	205	Tl	1063.884102	2.396	18965096.560	ug/L	12873.293
	208	Pb	1024.475844	3.167	25658802.287	ug/L	5892.860
	238	U	1069.657722	2.420	25835553.684	ug/L	4539.435
>	115	In-2			591532.746	ug/L	628564.297
	137	Ba	1031.635433	3.107	3381614.903	ug/L	677.690
>	197	Au-2			802723.992	ug/L	871438.669
	206	Pb	1010.876107	2.343	6288122.386	ug/L	1442.421
	207	Pb	1066.567332	2.693	5891855.579	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.134	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.256	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	94.109	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	84.109
	Ba	137	
>	Au-2	197	92.115
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mo	97	H
Sb	123	H
Tl	205	H
Pb	208	H
U	238	H
Ba	137	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 01:21:30
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.121

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			208821.335	ug/L	219065.440
	23	Na	3914.137851	1.139	12530174.736	ug/L	11860.377
	24	Mg	7853.965138	1.591	16648284.075	ug/L	3830.886
	27	Al	3975.820133	3.386	12622818.201	ug/L	6628.604
	39	K	4018.190890	3.516	23460833.713	ug/L	716897.807
	44	Ca	8128.843978	2.033	1732826.485	ug/L	91324.351
	57	Fe	7999.150734	1.494	1671220.951	ug/L	12818.592
	9	Be	1034.693955	0.855	321082.433	ug/L	48.334
	51	V	964.129765	3.137	6650620.446	ug/L	-30646.865
	52	Cr	980.655988	2.747	6269390.264	ug/L	30184.830
	55	Mn	997.285459	2.472	9831353.259	ug/L	4011.938
	59	Co	1008.664352	2.226	7991811.193	ug/L	1537.098
	60	Ni	975.165801	3.197	1791992.056	ug/L	860.035
>	72	Ge-1			294935.185	ug/L	321356.208
	65	Cu	973.170407	1.257	2123121.386	ug/L	1104.721
	66	Zn	963.651095	1.192	1196581.739	ug/L	5408.412
	75	As	975.604036	1.933	1446557.557	ug/L	-1011.066
	82	Se	1001.125311	2.359	163422.731	ug/L	39.252
>	115	In-1			555646.673	ug/L	628564.297
	97	Mo	1003.294414	1.755	1909228.686	ug/L	1099.053
	107	Ag	195.336679	1.629	1725054.720	ug/L	756.028
	111	Cd	998.550932	1.007	1995518.828	ug/L	402.343
	123	Sb	511.168544	2.666	2707951.298	ug/L	5839.772
	135	Ba	1018.795118	1.507	1862249.820	ug/L	419.010
>	197	Au-1			818036.951	ug/L	871438.669
	205	Tl	1000.291876	1.111	18175739.520	ug/L	12873.293
	208	Pb	989.898391	2.081	25270768.226	ug/L	5892.860
	238	U	1008.611755	0.989	24835674.502	ug/L	4539.435
>	115	In-2			555646.673	ug/L	628564.297
	137	Ba	1037.357905	2.076	3194654.357	ug/L	677.690
>	197	Au-2			818036.951	ug/L	871438.669
	206	Pb	1001.757344	2.680	6350612.129	ug/L	1442.421
	207	Pb	997.237199	0.791	5614900.504	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.324	
	Na	23		97.853
	Mg	24		98.175
	Al	27		99.398
	K	39		100.455
	Ca	44		101.611
	Fe	57		99.989
	Be	9		103.469
	V	51		96.413
	Cr	52		98.666
	Mn	55		99.729
	Co	59		100.866
	Ni	60		97.517
>	Ge-1	72	91.778	
	Cu	65		97.317
	Zn	66		96.365
	As	75		97.560
	Se	82		100.113
>	In-1	115	88.399	
	Mo	97		100.329
	Ag	107		97.668
	Cd	111		98.855
	Sb	123		102.234
	Ba	135		101.880

	Tl	205		100.029
	Pb	208		98.990
	U	238		100.861
>	In-2	115	88.399	
	Ba	137		103.736
>	Au-2	197	93.872	
	Pb	206		100.176
	Pb	207		99.724

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 01:26:33
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.122

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			201741.827	ug/L	219065.440
	23	Na	3.439004	27.108	21588.773	ug/L	11860.377
	24	Mg	4.685447	26.186	13152.025	ug/L	3830.886
	27	Al	2.849615	22.497	14862.323	ug/L	6628.604
	39	K	9.006456	40.286	709196.148	ug/L	716897.807
	44	Ca	59.094406	25.466	95610.840	ug/L	91324.351
	57	Fe	5.343380	34.197	12869.525	ug/L	12818.592
	9	Be	0.536195	37.740	206.004	ug/L	48.334
	51	V	-0.887969	43.043	-34173.014	ug/L	-30646.865
	52	Cr	0.126741	128.028	28570.183	ug/L	30184.830
	55	Mn	0.496896	26.414	8439.288	ug/L	4011.938
	59	Co	0.505507	31.294	5300.409	ug/L	1537.098
	60	Ni	0.437503	34.793	1572.104	ug/L	860.035
>	72	Ge-1			287047.907	ug/L	321356.208
	65	Cu	0.509402	36.205	2065.173	ug/L	1104.721
	66	Zn	0.752236	27.648	5734.876	ug/L	5408.412
	75	As	1.361873	37.077	1064.626	ug/L	-1011.066
	82	Se	0.958739	35.071	186.995	ug/L	39.252
>	115	In-1			568635.074	ug/L	628564.297
	97	Mo	1.221280	33.394	3367.111	ug/L	1099.053
	107	Ag	0.090073	36.191	1496.429	ug/L	756.028
	111	Cd	0.489634	29.045	1364.414	ug/L	402.343
	123	Sb	2.462520	38.501	18576.878	ug/L	5839.772
	135	Ba	0.463116	36.716	1244.402	ug/L	419.010
>	197	Au-1			802935.692	ug/L	871438.669
	205	Tl	1.891284	35.514	45444.560	ug/L	12873.293
	208	Pb	0.542892	36.388	18989.292	ug/L	5892.860
	238	U	0.565564	30.281	17811.637	ug/L	4539.435
>	115	In-2			568635.074	ug/L	628564.297
	137	Ba	0.460850	37.028	2064.176	ug/L	677.690
>	197	Au-2			802935.692	ug/L	871438.669
	206	Pb	0.541275	34.899	4687.512	ug/L	1442.421
	207	Pb	0.554828	38.584	4346.735	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.092	
	Na	23		343.900
	Mg	24		468.545
	Al	27		284.962
	K	39		900.646
	Ca	44		5909.441
	Fe	57		534.338
	Be	9		53.619
	V	51		-88.797
	Cr	52		12.674
	Mn	55		49.690
	Co	59		50.551
	Ni	60		43.750
>	Ge-1	72	89.324	
	Cu	65		50.940
	Zn	66		75.224
	As	75		136.187
	Se	82		95.874
>	In-1	115	90.456	
	Mo	97		122.128
	Ag	107		9.007
	Cd	111		48.963
	Sb	123		248.252
	Ba	135		46.312
>	Au-1	197	[illegible]	

]	Tl	205		189.128
]	Pb	208		54.289
⌊	U	238		58.556
⌈>	In-2	115	90.466	
⌊	Ba	137		46.085
⌈>	Au-2	197	92.139	
]	Pb	206		54.128
⌊	Pb	207		55.483

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
As	75	Q
Mo	97	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEA
Sample Date/Time: Tuesday, April 13, 2010 01:31:35
Autosampler Position: 58
Dataset File: D:\Elandata\Dataset\041210M1\LXHVEA.123

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			229888.973	ug/L	219065.440
	23	Na	355.448765	0.879	1263860.541	ug/L	11860.377
	24	Mg	270.166647	1.246	634467.100	ug/L	3830.886
	27	Al	165.582272	1.067	585429.919	ug/L	6628.604
	39	K	634.532523	3.284	4711814.089	ug/L	716897.807
	44	Ca	628.620095	1.459	235946.750	ug/L	91324.351
	57	Fe	271.528488	1.349	75444.623	ug/L	12818.592
	9	Be	2.361665	4.190	857.034	ug/L	48.334
	51	V	49.241564	5.269	343232.455	ug/L	-30646.865
	52	Cr	54.947183	1.217	416608.892	ug/L	30184.830
	55	Mn	11.150660	0.291	125194.526	ug/L	4011.938
	59	Co	11.099454	2.294	98419.660	ug/L	1537.098
	60	Ni	26.430777	2.956	54341.042	ug/L	860.035
>	72	Ge-1			316343.209	ug/L	321356.208
	65	Cu	12.374696	0.482	30027.826	ug/L	1104.721
	66	Zn	34.903686	1.892	51614.940	ug/L	5408.412
	75	As	48.719456	1.919	76535.022	ug/L	-1011.066
	82	Se	23.845633	2.823	4212.657	ug/L	39.252
>	115	In-1			598912.796	ug/L	628564.297
	97	Mo	26.380520	3.882	55109.665	ug/L	1099.053
	107	Ag	10.358788	1.369	99281.798	ug/L	756.028
	111	Cd	2.523610	1.905	5816.909	ug/L	402.343
	123	Sb	26.492230	3.514	156540.407	ug/L	5839.772
	135	Ba	10.909833	3.648	21880.632	ug/L	419.010
>	197	Au-1			836250.681	ug/L	871438.669
	205	Tl	11.170810	1.308	219724.803	ug/L	12873.293
	208	Pb	16.232151	0.947	429264.900	ug/L	5892.860
	238	U	5.435432	1.081	141141.623	ug/L	4539.435
>	115	In-2			598912.796	ug/L	628564.297
	137	Ba	11.418152	3.280	38531.283	ug/L	677.690
>	197	Au-2			836250.681	ug/L	871438.669
	206	Pb	16.162838	0.451	106131.853	ug/L	1442.421
	207	Pb	16.247176	1.602	94846.164	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.941	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.440	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	95.283	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	95.283
|	Ba	137	
⌈>	Au-2	197	95.962
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVL
Sample Date/Time: Tuesday, April 13, 2010 01:36:06
Autosampler Position: 59
Dataset File: D:\Elandata\Dataset\041210M1\LXHVL.124

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			228436.217	ug/L	219065.440
|	23	Na	277.192153	2.777	982229.018	ug/L	11860.377
|	24	Mg	8.879729	0.549	24583.380	ug/L	3830.886
|	27	Al	16.673102	3.661	64800.398	ug/L	6628.604
|	39	K	338.397261	1.146	2846523.018	ug/L	716897.807
|	44	Ca	93.351518	1.893	115907.802	ug/L	91324.351
|	57	Fe	27.035200	4.262	19501.972	ug/L	12818.592
|	9	Be	-0.126860	5.461	7.333	ug/L	48.334
|	51	V	-3.438193	45.071	-58001.825	ug/L	-30646.865
|	52	Cr	1.831591	12.973	44232.896	ug/L	30184.830
|	55	Mn	0.569608	4.669	10325.836	ug/L	4011.938
|	59	Co	-0.145851	1.697	338.674	ug/L	1537.098
⌊	60	Ni	0.074957	24.865	1047.382	ug/L	860.035
⌈>	72	Ge-1			323280.372	ug/L	321356.208
|	65	Cu	0.586000	3.220	2511.579	ug/L	1104.721
|	66	Zn	5.075004	0.554	12319.768	ug/L	5408.412
|	75	As	0.937479	78.602	518.136	ug/L	-1011.066
⌊	82	Se	0.707980	12.604	166.216	ug/L	39.252
⌈>	115	In-1			620999.276	ug/L	628564.297
|	97	Mo	-0.104046	28.249	865.368	ug/L	1099.053
|	107	Ag	-0.024355	3.962	506.681	ug/L	756.028
|	111	Cd	-0.129161	4.800	109.002	ug/L	402.343
|	123	Sb	0.583481	53.234	9240.075	ug/L	5839.772
⌊	135	Ba	0.583388	8.098	1604.440	ug/L	419.010
⌈>	197	Au-1			830714.114	ug/L	871438.669
|	205	Tl	0.265498	99.246	17160.011	ug/L	12873.293
|	208	Pb	-0.075158	6.869	3668.884	ug/L	5892.860
⌊	238	U	-0.136953	5.104	903.372	ug/L	4539.435
⌈>	115	In-2			620999.276	ug/L	628564.297
⌊	137	Ba	0.607884	3.277	2761.295	ug/L	677.690
⌈>	197	Au-2			830714.114	ug/L	871438.669
|	206	Pb	-0.075736	9.504	887.370	ug/L	1442.421
⌊	207	Pb	-0.078588	6.699	886.370	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	104.278	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	100.599	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	98.796	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
⌊	Ba	135		
⌈>	Au-1	197	95.327	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	98.796
	Ba	137	
>	Au-2	197	95.327
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVLS
Sample Date/Time: Tuesday, April 13, 2010 01:40:37
Autosampler Position: 60
Dataset File: D:\Elandata\Dataset\041210M1\LXHVLS.125

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			225014.364	ug/L	219065.440
	23	Na	270.661966	6.989	943083.793	ug/L	11860.377
	24	Mg	8.852043	3.283	24133.615	ug/L	3830.886
	27	Al	21.778004	3.041	81220.757	ug/L	6628.604
	39	K	329.625201	2.541	2748770.603	ug/L	716897.807
	44	Ca	85.765744	24.606	112383.106	ug/L	91324.351
	57	Fe	13.883421	30.700	16241.910	ug/L	12818.592
	9	Be	-0.120495	10.339	9.333	ug/L	48.334
	51	V	-1.355054	212.576	-41267.509	ug/L	-30646.865
	52	Cr	1.194443	34.689	39115.239	ug/L	30184.830
	55	Mn	0.349883	12.844	7822.887	ug/L	4011.938
	59	Co	-0.153178	1.254	270.672	ug/L	1537.098
[	60	Ni	0.054235	71.576	989.044	ug/L	860.035
[>	72	Ge-1			314562.508	ug/L	321356.208
	65	Cu	0.328913	3.970	1846.138	ug/L	1104.721
	66	Zn	2.625162	5.869	8755.437	ug/L	5408.412
	75	As	40.174782	2.073	62583.499	ug/L	-1011.066
[	82	Se	8.968994	2.173	1600.004	ug/L	39.252
[>	115	In-1			615028.498	ug/L	628564.297
	97	Mo	-0.225657	6.165	600.352	ug/L	1099.053
	107	Ag	-0.023624	16.404	509.014	ug/L	756.028
	111	Cd	4.878823	1.821	11183.155	ug/L	402.343
	123	Sb	100.590182	1.274	594560.620	ug/L	5839.772
[	135	Ba	0.627173	1.188	1678.782	ug/L	419.010
[>	197	Au-1			814452.583	ug/L	871438.669
	205	Tl	50.528611	0.451	925612.189	ug/L	12873.293
	208	Pb	21.951969	1.124	563422.838	ug/L	5892.860
[	238	U	-0.146877	2.458	642.688	ug/L	4539.435
[>	115	In-2			615028.498	ug/L	628564.297
[	137	Ba	0.722735	3.642	3126.707	ug/L	677.690
[>	197	Au-2			814452.583	ug/L	871438.669
	206	Pb	22.208562	1.220	141517.596	ug/L	1442.421
[	207	Pb	21.248206	1.791	120392.420	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	102.716	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	97.888	
	Cu	65		
	Zn	66		
	As	75		
[	Se	82		
[>	In-1	115	97.847	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
[	Ba	135		
[>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	97.847
|	Ba	137	
⌈>	Au-2	197	93.461
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLM
Sample Date/Time: Tuesday, April 13, 2010 01:45:08
Autosampler Position: 61
Dataset File: D:\Elandata\Dataset\041210M1\LXNLM.126

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			224979.733	ug/L	219065.440
|	23	Na	176.644676	3.694	620716.118	ug/L	11860.377
|	24	Mg	9.608035	0.286	25874.672	ug/L	3830.886
|	27	Al	21.753472	2.389	81179.510	ug/L	6628.604
|	39	K	264.946196	3.627	2354327.063	ug/L	716897.807
|	44	Ca	110.885688	7.279	117970.290	ug/L	91324.351
|	57	Fe	4.101967	11.877	14080.870	ug/L	12818.592
|	9	Be	-0.133535	2.198	5.000	ug/L	48.334
|	51	V	-3.943683	21.189	-60876.889	ug/L	-30646.865
|	52	Cr	1.742675	15.287	42953.002	ug/L	30184.830
|	55	Mn	0.082243	36.728	4991.590	ug/L	4011.938
|	59	Co	-0.160257	0.650	210.670	ug/L	1537.098
⌊	60	Ni	-0.093701	9.742	697.691	ug/L	860.035
⌈>	72	Ge-1			318091.934	ug/L	321356.208
|	65	Cu	1.584792	3.951	4820.529	ug/L	1104.721
|	66	Zn	5.263684	2.785	12373.481	ug/L	5408.412
|	75	As	-0.411170	98.112	-1656.652	ug/L	-1011.066
⌊	82	Se	0.392700	85.479	107.812	ug/L	39.252
⌈>	115	In-1			609902.134	ug/L	628564.297
|	97	Mo	-0.274839	2.564	492.347	ug/L	1099.053
|	107	Ag	-0.031130	6.025	432.011	ug/L	756.028
|	111	Cd	-0.133476	2.200	97.668	ug/L	402.343
|	123	Sb	-0.110393	11.605	5024.987	ug/L	5839.772
⌊	135	Ba	0.041198	23.748	489.347	ug/L	419.010
⌈>	197	Au-1			822605.503	ug/L	871438.669
|	205	Tl	0.934667	52.878	29214.004	ug/L	12873.293
|	208	Pb	-0.033705	12.830	4697.017	ug/L	5892.860
⌊	238	U	-0.156882	1.519	401.343	ug/L	4539.435
⌈>	115	In-2			609902.134	ug/L	628564.297
⌊	137	Ba	0.055309	29.133	844.033	ug/L	677.690
⌈>	197	Au-2			822605.503	ug/L	871438.669
|	206	Pb	-0.037211	18.426	1124.389	ug/L	1442.421
⌊	207	Pb	-0.043248	6.255	1077.718	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	102.700	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	98.984	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	97.031	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
|	Ba	135		
⌈>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	97.031
	Ba	137	
>	Au-2	197	94.396
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGB
Sample Date/Time: Tuesday, April 13, 2010 01:49:39
Autosampler Position: 62
Dataset File: D:\Elandata\Dataset\041210M1\LXRAGB.127

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			215887.042	ug/L	219065.440
	23	Na	18.087919	1.077	71487.155	ug/L	11860.377
	24	Mg	0.212202	11.754	4241.006	ug/L	3830.886
	27	Al	2.812178	3.407	15759.517	ug/L	6628.604
	39	K	3.401212	86.468	726173.449	ug/L	716897.807
	44	Ca	52.648296	21.849	100984.341	ug/L	91324.351
	57	Fe	5.305114	77.371	13757.327	ug/L	12818.592
	9	Be	-0.120478	7.476	9.000	ug/L	48.334
	51	V	-2.602537	46.359	-48722.562	ug/L	-30646.865
	52	Cr	1.102574	27.464	36974.866	ug/L	30184.830
	55	Mn	-0.032464	16.595	3622.829	ug/L	4011.938
	59	Co	-0.162935	1.146	180.003	ug/L	1537.098
	60	Ni	-0.133491	12.050	593.685	ug/L	860.035
>	72	Ge-1			305457.911	ug/L	321356.208
	65	Cu	-0.092675	19.014	840.700	ug/L	1104.721
	66	Zn	2.117649	9.864	7851.570	ug/L	5408.412
	75	As	-0.607805	103.214	-1899.697	ug/L	-1011.066
	82	Se	0.110232	185.684	55.786	ug/L	39.252
>	115	In-1			597003.920	ug/L	628564.297
	97	Mo	-0.310461	4.333	409.343	ug/L	1099.053
	107	Ag	-0.030083	5.741	432.678	ug/L	756.028
	111	Cd	-0.147881	2.220	64.667	ug/L	402.343
	123	Sb	-0.332638	7.633	3656.515	ug/L	5839.772
	135	Ba	-0.046074	49.949	307.340	ug/L	419.010
>	197	Au-1			816656.333	ug/L	871438.669
	205	Tl	-0.023069	353.946	11654.928	ug/L	12873.293
	208	Pb	-0.136317	1.532	2048.076	ug/L	5892.860
	238	U	-0.161140	0.187	294.006	ug/L	4539.435
>	115	In-2			597003.920	ug/L	628564.297
	137	Ba	-0.034285	44.588	530.015	ug/L	677.690
>	197	Au-2			816656.333	ug/L	871438.669
	206	Pb	-0.138882	2.021	472.679	ug/L	1442.421
	207	Pb	-0.138855	1.007	532.682	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.549	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.053	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	94.979	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	94.979
|	Ba	137	
⌈>	Au-2	197	93.714
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGC
Sample Date/Time: Tuesday, April 13, 2010 01:54:10
Autosampler Position: 63
Dataset File: D:\Elandata\Dataset\041210M1\LXRAGC.128

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213330.945	ug/L	219065.440
	23	Na	10120.435863	3.420	33070308.974	ug/L	11860.377
	24	Mg	9903.631525	3.366	21438532.796	ug/L	3830.886
	27	Al	10170.044168	3.660	32963967.120	ug/L	6628.604
	39	K	10441.632398	4.183	61151725.963	ug/L	716897.807
	44	Ca	9878.204951	2.594	2131746.699	ug/L	91324.351
	57	Fe	10317.291597	2.178	2198117.613	ug/L	12818.592
	9	Be	1046.082817	2.895	331511.853	ug/L	48.334
	51	V	1004.261859	4.162	7075325.866	ug/L	-30646.865
	52	Cr	1009.744139	4.871	6590022.121	ug/L	30184.830
	55	Mn	995.891192	2.449	10028913.653	ug/L	4011.938
	59	Co	1023.631978	2.791	8285579.293	ug/L	1537.098
	60	Ni	971.584190	2.717	1823745.174	ug/L	860.035
>	72	Ge-1			305888.767	ug/L	321356.208
	65	Cu	907.379622	0.760	2052853.050	ug/L	1104.721
	66	Zn	910.819057	2.548	1172727.618	ug/L	5408.412
	75	As	940.955537	2.715	1446470.555	ug/L	-1011.066
	82	Se	930.358340	3.266	157457.756	ug/L	39.252
>	115	In-1			567543.061	ug/L	628564.297
	97	Mo	1047.780822	4.439	2035553.610	ug/L	1099.053
	107	Ag	100.573115	2.706	907301.921	ug/L	756.028
	111	Cd	967.873873	1.766	1975084.785	ug/L	402.343
	123	Sb	513.853411	2.887	2780283.591	ug/L	5839.772
	135	Ba	1010.600625	2.660	1886207.030	ug/L	419.010
>	197	Au-1			781634.902	ug/L	871438.669
	205	Tl	1031.150282	1.397	17903716.109	ug/L	12873.293
	208	Pb	1033.925060	1.111	25224808.830	ug/L	5892.860
	238	U	1123.750805	1.214	26436481.535	ug/L	4539.435
>	115	In-2			567543.061	ug/L	628564.297
	137	Ba	1056.125008	3.143	3321274.692	ug/L	677.690
>	197	Au-2			781634.902	ug/L	871438.669
	206	Pb	1010.742157	1.003	6123801.970	ug/L	1442.421
	207	Pb	1049.215236	0.352	5644908.318	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.382	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.187	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.292	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	90.292
L	Ba	137	
⌈>	Au-2	197	89.695
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Co	59	H
Mo	97	H
Sb	123	H
Ba	135	H
Tl	205	H
Pb	208	H
U	238	H
Ba	137	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XV
Sample Date/Time: Tuesday, April 13, 2010 01:58:41
Autosampler Position: 64
Dataset File: D:\Elandata\Dataset\041210M1\LW2XV.129

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			236812.776	ug/L	219065.440
	23	Na	470.255146	3.277	1718662.425	ug/L	11860.377
	24	Mg	9120.077838	1.404	21923616.950	ug/L	3830.886
	27	Al	2861.548376	1.063	10306432.902	ug/L	6628.604
	39	K	1185.121053	0.945	8395084.125	ug/L	716897.807
	44	Ca	15690.298288	5.266	3701402.490	ug/L	91324.351
	57	Fe	3017.033805	1.999	723478.365	ug/L	12818.592
	9	Be	0.061564	79.077	74.001	ug/L	48.334
	51	V	3.801563	47.583	-3291.236	ug/L	-30646.865
	52	Cr	4.138120	5.163	62490.708	ug/L	30184.830
	55	Mn	375.580128	3.417	4201456.352	ug/L	4011.938
	59	Co	2.806420	0.798	26878.201	ug/L	1537.098
	60	Ni	3.019006	1.629	7220.230	ug/L	860.035
>	72	Ge-1			318767.858	ug/L	321356.208
	65	Cu	2.182891	3.244	6240.092	ug/L	1104.721
	66	Zn	24.006728	2.393	37447.402	ug/L	5408.412
	75	As	2.261914	22.410	2620.756	ug/L	-1011.066
	82	Se	1.081825	32.896	230.095	ug/L	39.252
>	115	In-1			583645.317	ug/L	628564.297
	97	Mo	1.294139	32.405	3609.843	ug/L	1099.053
	107	Ag	-0.004325	224.767	662.356	ug/L	756.028
	111	Cd	0.022392	142.151	420.677	ug/L	402.343
	123	Sb	-0.393898	7.835	3235.599	ug/L	5839.772
	135	Ba	101.034488	4.356	194264.220	ug/L	419.010
>	197	Au-1			797435.317	ug/L	871438.669
	205	Tl	2.661250	34.760	59175.406	ug/L	12873.293
	208	Pb	7.941306	1.143	202979.976	ug/L	5892.860
	238	U	0.305250	21.466	11503.826	ug/L	4539.435
>	115	In-2			583645.317	ug/L	628564.297
	137	Ba	103.210542	0.407	334490.937	ug/L	677.690
>	197	Au-2			797435.317	ug/L	871438.669
	206	Pb	8.366135	0.075	53021.451	ug/L	1442.421
	207	Pb	7.639828	2.347	43204.040	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	108.101	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.195	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	92.854	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
Γ>	In-2	115	92.854
|	Ba	137	
Γ>	Au-2	197	91.508
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVV
Sample Date/Time: Tuesday, April 13, 2010 02:03:13
Autosampler Position: 65
Dataset File: D:\Elandata\Dataset\041210M1\LW2XVV.130

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212224.838	ug/L	219065.440
	23	Na	105.471704	1.206	354277.542	ug/L	11860.377
	24	Mg	1996.857682	1.096	4305052.865	ug/L	3830.886
	27	Al	646.483537	1.725	2091485.425	ug/L	6628.604
	39	K	256.093560	3.738	2169759.038	ug/L	716897.807
	44	Ca	3689.869534	2.071	847756.547	ug/L	91324.351
	57	Fe	649.316955	2.380	149256.619	ug/L	12818.592
	9	Be	-0.063766	21.311	26.667	ug/L	48.334
	51	V	-0.862604	169.830	-35693.890	ug/L	-30646.865
	52	Cr	0.471953	48.888	32278.771	ug/L	30184.830
	55	Mn	87.424117	1.737	879406.668	ug/L	4011.938
	59	Co	0.498322	6.095	5503.117	ug/L	1537.098
	60	Ni	0.521321	11.606	1805.466	ug/L	860.035
>	72	Ge-1			303549.672	ug/L	321356.208
	65	Cu	0.386008	7.020	1909.814	ug/L	1104.721
	66	Zn	5.894963	1.429	12611.692	ug/L	5408.412
	75	As	0.930283	57.568	465.912	ug/L	-1011.066
	82	Se	0.261243	70.663	81.065	ug/L	39.252
>	115	In-1			580088.518	ug/L	628564.297
	97	Mo	-0.006530	610.496	1001.379	ug/L	1099.053
	107	Ag	-0.021989	6.077	495.014	ug/L	756.028
	111	Cd	-0.085511	23.279	193.003	ug/L	402.343
	123	Sb	-0.672608	2.855	1675.707	ug/L	5839.772
	135	Ba	19.392816	1.535	37389.917	ug/L	419.010
>	197	Au-1			828547.821	ug/L	871438.669
	205	Tl	0.400863	34.635	19606.452	ug/L	12873.293
	208	Pb	1.400677	2.502	41812.996	ug/L	5892.860
	238	U	-0.058897	23.897	2845.314	ug/L	4539.435
>	115	In-2			580088.518	ug/L	628564.297
	137	Ba	20.470231	0.715	66441.824	ug/L	677.690
>	197	Au-2			828547.821	ug/L	871438.669
	206	Pb	1.491945	1.840	10950.305	ug/L	1442.421
	207	Pb	1.313741	3.390	8821.145	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.877	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.459	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	92.288	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	92.288
	Ba	137	
>	Au-2	197	95.078
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVS

Sample Date/Time: Tuesday, April 13, 2010 02:07:44

Autosampler Position: 66

Dataset File: D:\Elandata\Dataset\041210M1\LW2XVS.131

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			256792.664	ug/L	219065.440
	23	Na	8354.168548	1.632	32859256.919	ug/L	11860.377
	24	Mg	15813.003689	3.934	41188207.371	ug/L	3830.886
	27	Al	13390.318056	3.583	52233742.482	ug/L	6628.604
	39	K	9577.760165	4.227	67560575.016	ug/L	716897.807
	44	Ca	21431.886288	3.909	5439004.383	ug/L	91324.351
	57	Fe	10733.869850	3.055	2751721.394	ug/L	12818.592
	9	Be	841.024792	2.272	320832.061	ug/L	48.334
	51	V	827.532643	2.652	7011351.261	ug/L	-30646.865
	52	Cr	824.338687	4.578	6480199.225	ug/L	30184.830
	55	Mn	1136.575662	1.661	13777352.420	ug/L	4011.938
	59	Co	829.697084	1.220	8083360.812	ug/L	1537.098
	60	Ni	793.318840	4.506	1791578.252	ug/L	860.035
>	72	Ge-1			308731.750	ug/L	321356.208
	65	Cu	895.716481	2.575	2045526.716	ug/L	1104.721
	66	Zn	909.979589	0.737	1183002.448	ug/L	5408.412
	75	As	902.885215	2.330	1401282.721	ug/L	-1011.066
	82	Se	879.836122	2.527	150349.629	ug/L	39.252
>	115	In-1			567175.856	ug/L	628564.297
	97	Mo	1006.432757	2.734	1954671.916	ug/L	1099.053
	107	Ag	100.703733	2.654	908002.831	ug/L	756.028
	111	Cd	946.848936	2.434	1930880.674	ug/L	402.343
	123	Sb	501.455940	1.984	2711923.009	ug/L	5839.772
	135	Ba	1095.459164	2.804	2043595.007	ug/L	419.010
>	197	Au-1			784973.904	ug/L	871438.669
	205	Tl	1002.679460	1.949	17480561.326	ug/L	12873.293
	208	Pb	1003.132373	0.935	24576026.435	ug/L	5892.860
	238	U	1057.291588	1.112	24976125.283	ug/L	4539.435
>	115	In-2			567175.856	ug/L	628564.297
	137	Ba	1115.637100	3.223	3506580.034	ug/L	677.690
>	197	Au-2			784973.904	ug/L	871438.669
	206	Pb	972.629593	1.205	5918066.877	ug/L	1442.421
	207	Pb	1030.680275	0.227	5568824.225	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	117.222	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.072	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.234	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.078	

|	Tl	205	
|	Pb	208	
L	U	238	
Γ>	In-2	115	90.234
L	Ba	137	
Γ>	Au-2	197	90.078
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Mo	97	H
Sb	123	H
Ba	135	H
Tl	205	H
Pb	208	H
U	238	H
Ba	137	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVD
Sample Date/Time: Tuesday, April 13, 2010 02:12:16
Autosampler Position: 67
Dataset File: D:\Elandata\Dataset\041210M1\LW2XVD.132

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			244223.647	ug/L	219065.440
	23	Na	8937.747443	3.161	33446165.838	ug/L	11860.377
	24	Mg	16894.473459	1.485	41883137.205	ug/L	3830.886
	27	Al	14100.605457	1.356	52345746.882	ug/L	6628.604
	39	K	10077.117648	2.037	67623837.788	ug/L	716897.807
	44	Ca	22031.456555	1.114	5319143.212	ug/L	91324.351
	57	Fe	11135.801373	2.039	2715598.741	ug/L	12818.592
	9	Be	878.831552	2.326	318975.168	ug/L	48.334
	51	V	857.848721	1.203	6917780.944	ug/L	-30646.865
	52	Cr	851.598866	0.714	6372194.518	ug/L	30184.830
	55	Mn	1192.911950	0.190	13755037.523	ug/L	4011.938
	59	Co	877.059896	2.060	8128467.376	ug/L	1537.098
	60	Ni	829.837807	1.506	1784027.342	ug/L	860.035
>	72	Ge-1			314216.267	ug/L	321356.208
	65	Cu	862.547070	2.518	2004762.153	ug/L	1104.721
	66	Zn	889.519053	1.886	1176962.279	ug/L	5408.412
	75	As	896.787423	2.229	1416410.708	ug/L	-1011.066
	82	Se	882.040897	2.545	153395.500	ug/L	39.252
>	115	In-1			577118.917	ug/L	628564.297
	97	Mo	998.675833	0.723	1974212.124	ug/L	1099.053
	107	Ag	96.681177	1.629	887275.764	ug/L	756.028
	111	Cd	925.474729	1.619	1920887.993	ug/L	402.343
	123	Sb	492.586282	1.847	2711247.437	ug/L	5839.772
	135	Ba	1091.049423	0.893	2071520.123	ug/L	419.010
>	197	Au-1			788026.484	ug/L	871438.669
	205	Tl	1021.302239	1.085	17876076.859	ug/L	12873.293
	208	Pb	987.290310	1.446	24280847.192	ug/L	5892.860
	238	U	1056.421372	0.489	25055174.775	ug/L	4539.435
>	115	In-2			577118.917	ug/L	628564.297
	137	Ba	1107.594431	1.061	3543531.493	ug/L	677.690
>	197	Au-2			788026.484	ug/L	871438.669
	206	Pb	973.435486	1.747	5945182.338	ug/L	1442.421
	207	Pb	1021.315253	0.487	5539574.644	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.484	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.778	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.815	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	91.815
|	Ba	137	
⌈>	Au-2	197	90.428
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Ba	135	H
Tl	205	H
U	238	H
Ba	137	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 02:16:48
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.133

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213411.754	ug/L	219065.440
	23	Na	3710.537714	1.022	12137409.948	ug/L	11860.377
	24	Mg	7606.272719	3.716	16466706.058	ug/L	3830.886
	27	Al	3844.832471	3.010	12469389.567	ug/L	6628.504
	39	K	3866.515184	5.280	23080748.948	ug/L	716897.807
	44	Ca	7933.601944	4.625	1729411.085	ug/L	91324.351
	57	Fe	7703.890573	3.421	1644715.978	ug/L	12818.592
	9	Be	1017.850988	1.841	322721.864	ug/L	48.334
	51	V	939.690669	1.206	6623050.368	ug/L	-30646.865
	52	Cr	935.024366	2.241	6109722.749	ug/L	30184.830
	55	Mn	939.954393	3.060	9468677.650	ug/L	4011.938
	59	Co	939.120768	1.782	7602785.639	ug/L	1537.098
	60	Ni	923.931704	3.771	1734210.709	ug/L	860.035
>	72	Ge-1			289305.824	ug/L	321356.208
	65	Cu	953.756034	2.926	2040879.347	ug/L	1104.721
	66	Zn	983.549204	1.116	1197805.721	ug/L	5408.412
	75	As	963.634049	3.272	1401347.063	ug/L	-1011.066
	82	Se	987.449866	4.266	158067.117	ug/L	39.252
>	115	In-1			557230.634	ug/L	628564.297
	97	Mo	974.551884	5.339	1857565.679	ug/L	1099.053
	107	Ag	189.235134	4.409	1674224.103	ug/L	756.028
	111	Cd	976.024894	2.115	1954895.766	ug/L	402.343
	123	Sb	502.826055	3.211	2669897.324	ug/L	5839.772
	135	Ba	973.772310	4.081	1783212.613	ug/L	419.010
>	197	Au-1			794847.490	ug/L	871438.669
	205	Tl	1012.398517	1.049	17872758.487	ug/L	12873.293
	208	Pb	1022.765130	1.973	25365533.892	ug/L	5892.860
	238	U	1014.671746	2.555	24262546.424	ug/L	4539.435
>	115	In-2			557230.634	ug/L	628564.297
	137	Ba	1009.377354	5.603	3113649.007	ug/L	677.690
>	197	Au-2			794847.490	ug/L	871438.669
	206	Pb	1033.709822	2.939	6365291.130	ug/L	1442.421
	207	Pb	1023.077484	1.640	5595799.108	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.419	
	Na	23		92.763
	Mg	24		95.078
	Al	27		96.121
	K	39		96.863
	Ca	44		99.170
	Fe	57		96.299
	Be	9		101.785
	V	51		93.969
	Cr	52		93.502
	Mn	55		93.995
	Co	59		93.912
	Ni	60		92.393
>	Ge-1	72	90.027	
	Cu	65		95.376
	Zn	66		96.355
	As	75		96.363
	Se	82		98.745
>	In-1	115	88.651	
	Mo	97		97.455
	Ag	107		94.618
	Cd	111		97.802
	Sb	123		100.565
	Ba	135		97.377
>	Au-1	197	91.211	

|	Tl	205		101.240
|	Pb	208		102.277
|	U	238		101.467
⌈>	In-2	115	88.651	
|	Ba	137		100.938
⌈>	Au-2	197	91.211	
|	Pb	208		103.371
⌊	Pb	207		102.308

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 02:21:50
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.134

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			192008.595	ug/L	219065.440
	23	Na	2.571471	30.195	17951.236	ug/L	11860.377
	24	Mg	4.027560	35.067	11190.654	ug/L	3830.886
	27	Al	2.483463	28.408	13046.175	ug/L	6628.604
	39	K	15.470999	36.166	708362.039	ug/L	716897.807
	44	Ca	59.874236	30.420	91116.902	ug/L	91324.351
	57	Fe	6.629366	17.086	12497.112	ug/L	12818.592
	9	Be	0.375703	7.807	149.669	ug/L	48.334
	51	V	0.496461	300.495	-23487.835	ug/L	-30646.865
	52	Cr	0.066543	394.554	26812.751	ug/L	30184.830
	55	Mn	0.355657	30.195	6737.344	ug/L	4011.938
	59	Co	0.325020	31.185	3715.200	ug/L	1537.098
	60	Ni	0.263608	55.047	1198.064	ug/L	860.035
>	72	Ge-1			280631.621	ug/L	321356.208
	65	Cu	0.345578	36.062	1679.784	ug/L	1104.721
	66	Zn	0.632875	20.732	5466.434	ug/L	5408.412
	75	As	0.971169	63.120	483.945	ug/L	-1011.066
	82	Se	0.419028	17.693	99.315	ug/L	39.252
>	115	In-1			549044.026	ug/L	628564.297
	97	Mo	1.005727	37.106	2850.991	ug/L	1099.053
	107	Ag	0.060829	43.818	1192.396	ug/L	756.028
	111	Cd	0.316925	37.174	978.378	ug/L	402.343
	123	Sb	2.173214	39.182	16463.997	ug/L	5839.772
	135	Ba	0.304192	42.526	916.707	ug/L	419.010
>	197	Au-1			796399.198	ug/L	871438.669
	205	Tl	2.573356	32.556	57224.241	ug/L	12873.293
	208	Pb	0.404493	35.213	15427.210	ug/L	5892.860
	238	U	0.397292	31.119	13660.862	ug/L	4539.435
>	115	In-2			549044.026	ug/L	628564.297
	137	Ba	0.309637	38.061	1536.435	ug/L	677.690
>	197	Au-2			796399.198	ug/L	871438.669
	206	Pb	0.389751	33.504	3721.203	ug/L	1442.421
	207	Pb	0.402370	36.420	3483.141	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	87.649	
	Na	23		257.147
	Mg	24		402.756
	Al	27		248.346
	K	39		1547.100
	Ca	44		5987.424
	Fe	57		662.937
	Be	9		37.570
	V	51		49.646
	Cr	52		6.654
	Mn	55		35.566
	Co	59		32.502
	Ni	60		26.361
>	Ge-1	72	87.327	
	Cu	65		34.558
	Zn	66		63.288
	As	75		97.117
	Se	82		41.903
>	In-1	115	87.349	
	Mo	97		100.573
	Ag	107		6.083
	Cd	111		31.693
	Sb	123		217.321
	Ba	135		30.419
>	Au-1	197	[illegible]	

|	Tl	205		257.336
|	Pb	208		40.449
|	U	238		39.729
⌈>	In-2	115	87.349	
|	Ba	137		30.964
⌈>	Au-2	197	91.389	
|	Pb	206		38.975
|	Pb	207		40.237

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mo	97	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPT5B
Sample Date/Time: Tuesday, April 13, 2010 02:26:53
Autosampler Position: 68
Dataset File: D:\Elandata\Dataset\041210M1\LXPT5B.135

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			209515.024	ug/L	219065.440
	23	Na	29.500232	3.955	105940.786	ug/L	11860.377
	24	Mg	6.955419	6.490	18437.412	ug/L	3830.886
	27	Al	9.184049	4.547	35559.894	ug/L	6628.604
	39	K	13.469480	33.730	761799.753	ug/L	716897.807
	44	Ca	38.365492	39.893	95082.002	ug/L	91324.351
	57	Fe	2.755561	105.833	12822.267	ug/L	12818.592
	9	Be	-0.108897	4.096	12.333	ug/L	48.334
	51	V	-0.977488	242.805	-35981.619	ug/L	-30646.865
	52	Cr	0.113266	265.088	29558.877	ug/L	30184.830
	55	Mn	-0.033867	64.335	3498.464	ug/L	4011.938
	59	Co	-0.140662	2.957	351.341	ug/L	1537.098
	60	Ni	-0.104619	28.799	628.687	ug/L	860.035
>	72	Ge-1			298262.582	ug/L	321356.208
	65	Cu	-0.031394	20.672	956.042	ug/L	1104.721
	66	Zn	1.678351	4.415	7117.511	ug/L	5408.412
	75	As	-0.032784	1214.657	-990.175	ug/L	-1011.066
	82	Se	-0.186043	74.022	5.973	ug/L	39.252
>	115	In-1			565189.694	ug/L	628564.297
	97	Mo	-0.037585	70.216	915.372	ug/L	1099.053
	107	Ag	-0.018573	6.108	513.014	ug/L	756.028
	111	Cd	-0.116008	3.799	126.002	ug/L	402.343
	123	Sb	0.230929	101.536	6489.930	ug/L	5839.772
	135	Ba	-0.018733	114.100	342.008	ug/L	419.010
>	197	Au-1			807964.801	ug/L	871438.669
	205	Tl	1.236346	17.424	34079.213	ug/L	12873.293
	208	Pb	-0.055885	15.513	4052.596	ug/L	5892.860
	238	U	-0.107184	4.403	1601.773	ug/L	4539.435
>	115	In-2			565189.694	ug/L	628564.297
	137	Ba	-0.003349	528.801	599.019	ug/L	677.690
>	197	Au-2			807964.801	ug/L	871438.669
	206	Pb	-0.057528	6.811	977.043	ug/L	1442.421
	207	Pb	-0.059005	21.541	970.376	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.649	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.814	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	89.918	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	92.746	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	89.918
|	Ba	137	
⌈>	Au-2	197	92.716
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPT5C
Sample Date/Time: Tuesday, April 13, 2010 02:31:25
Autosampler Position: 69
Dataset File: D:\Elandata\Dataset\041210M1\LXPT5C.136

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			261732.658	ug/L	219065.440
	23	Na	1424.971862	2.697	5724618.597	ug/L	11860.377
	24	Mg	8384.594447	1.536	22272028.064	ug/L	3830.886
	27	Al	15962.124757	1.046	63493492.368	ug/L	6628.604
	39	K	6323.963685	1.133	45787764.816	ug/L	716897.807
	44	Ca	14870.009326	0.617	3882541.023	ug/L	91324.351
	57	Fe	28885.180876	1.179	7523695.283	ug/L	12818.592
	9	Be	189.332560	2.363	73658.167	ug/L	48.334
	51	V	321.482713	1.534	2754560.762	ug/L	-30646.865
	52	Cr	154.557194	3.366	1268080.176	ug/L	30184.830
	55	Mn	1079.888331	0.990	13342898.920	ug/L	4011.938
	59	Co	474.739629	1.297	4715793.831	ug/L	1537.098
	60	Ni	171.893639	0.821	396862.549	ug/L	860.035
>	72	Ge-1			288402.795	ug/L	321356.208
	65	Cu	267.379342	2.724	570896.300	ug/L	1104.721
	66	Zn	823.800837	3.529	1000497.990	ug/L	5408.412
	75	As	354.768540	0.757	513812.349	ug/L	-1011.066
	82	Se	322.261303	1.660	51460.092	ug/L	39.252
>	115	In-1			549558.013	ug/L	628564.297
	97	Mo	175.660273	3.934	331348.029	ug/L	1099.053
	107	Ag	134.467535	1.184	1174775.326	ug/L	756.028
	111	Cd	414.585419	0.888	819532.933	ug/L	402.343
	123	Sb	133.710393	1.919	704427.790	ug/L	5839.772
	135	Ba	754.967673	1.763	1364848.247	ug/L	419.010
>	197	Au-1			802038.749	ug/L	871438.669
	205	Tl	578.265304	1.080	10307819.723	ug/L	12873.293
	208	Pb	349.238586	0.919	8746530.788	ug/L	5892.860
	238	U	3.768607	2.244	95125.651	ug/L	4539.435
>	115	In-2			549558.013	ug/L	628564.297
	137	Ba	763.630895	1.690	2326242.466	ug/L	677.690
>	197	Au-2			802038.749	ug/L	871438.669
	206	Pb	355.942769	1.830	2213792.306	ug/L	1442.421
	207	Pb	344.952811	1.270	1905278.854	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	119.477	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	89.746	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.431	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
L	U	238	
Γ>	In-2	115	**67.431**
L	Ba	137	
Γ>	Au-2	197	**92.036**
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPT5C
Sample Date/Time: Tuesday, April 13, 2010 02:35:58
Autosampler Position: 70
Dataset File: D:\Elandata\Dataset\041210M1\LXPT5C.137

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			227510.449	ug/L	219065.440
	23	Na	820.621560	1.461	2871404.733	ug/L	11860.377
	24	Mg	4785.034637	2.115	11050389.688	ug/L	3830.886
	27	Al	9197.842932	2.394	31808565.313	ug/L	6628.604
	39	K	3615.416675	2.769	23080494.881	ug/L	716897.807
	44	Ca	8508.160265	1.634	1971494.186	ug/L	91324.351
	57	Fe	16295.703135	0.777	3695492.583	ug/L	12818.592
	9	Be	107.493379	2.968	36373.947	ug/L	48.334
	51	V	196.689378	2.265	1452873.160	ug/L	-30646.865
	52	Cr	84.871366	2.543	619641.983	ug/L	30184.830
	55	Mn	585.924927	1.613	6294470.846	ug/L	4011.938
	59	Co	270.262211	3.040	2333489.716	ug/L	1537.098
	60	Ni	97.531687	3.598	196033.908	ug/L	860.035
>	72	Ge-1			287985.803	ug/L	321356.208
	65	Cu	130.607476	1.742	279041.199	ug/L	1104.721
	66	Zn	422.122027	1.963	514483.894	ug/L	5408.412
	75	As	178.692397	2.342	257979.835	ug/L	-1011.066
	82	Se	160.504950	0.914	25616.667	ug/L	39.252
>	115	In-1			545362.619	ug/L	628564.297
	97	Mo	85.863767	1.225	161268.868	ug/L	1099.053
	107	Ag	68.574707	0.029	594899.468	ug/L	756.028
	111	Cd	213.871032	2.376	419735.714	ug/L	402.343
	123	Sb	66.914538	2.142	352425.337	ug/L	5839.772
	135	Ba	380.692683	1.104	683229.910	ug/L	419.010
>	197	Au-1			793454.190	ug/L	871438.669
	205	Tl	287.698537	1.528	5079472.066	ug/L	12873.293
	208	Pb	178.294430	1.207	4419843.753	ug/L	5892.860
	238	U	1.819009	2.073	47564.213	ug/L	4539.435
>	115	In-2			545362.619	ug/L	628564.297
	137	Ba	388.650481	0.801	1175326.147	ug/L	677.690
>	197	Au-2			793454.190	ug/L	871438.669
	206	Pb	182.897956	0.420	1125924.978	ug/L	1442.421
	207	Pb	180.834525	1.036	988598.448	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.855	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	89.816	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	86.763	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.051	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	86.763
	Ba	137	
>	Au-2	197	91.051
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3
Sample Date/Time: Tuesday, April 13, 2010 02:40:30
Autosampler Position: 71
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3.138

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			305483.594	ug/L	219065.440
	23	Na	284.322080	3.766	1346215.072	ug/L	11860.377
	24	Mg	16692.161249	3.379	51736422.205	ug/L	3830.886
	27	Al	33998.524917	1.994	157800969.223	ug/L	6628.604
	39	K	7212.936872	5.304	60779009.152	ug/L	716897.807
	44	Ca	122677.306137	2.975	36447564.445	ug/L	91324.351
	57	Fe	38019.688599	4.026	11546139.233	ug/L	12818.592
	9	Be	2.004939	4.807	976.710	ug/L	48.334
	51	V	97.129705	4.155	941284.371	ug/L	-30646.865
	52	Cr	43.558417	2.666	447446.650	ug/L	30184.830
	55	Mn	1228.649607	1.576	17715492.107	ug/L	4011.938
	59	Co	20.906201	3.475	244301.711	ug/L	1537.098
	60	Ni	42.859876	3.844	116311.778	ug/L	860.035
>	72	Ge-1			320242.585	ug/L	321356.208
	65	Cu	60.681918	1.152	144752.833	ug/L	1104.721
	66	Zn	1667.609740	1.361	2244484.302	ug/L	5408.412
	75	As	17.663019	8.836	27427.917	ug/L	-1011.066
	82	Se	0.053559	796.631	47.950	ug/L	39.252
>	115	In-1			559546.893	ug/L	628564.297
	97	Mo	2.196388	12.037	5178.327	ug/L	1099.053
	107	Ag	97.503749	3.216	867333.420	ug/L	756.028
	111	Cd	3.060829	0.901	6515.551	ug/L	402.343
	123	Sb	0.505831	15.807	7887.574	ug/L	5839.772
	135	Ba	1123.973641	0.787	2069266.598	ug/L	419.010
>	197	Au-1			770027.223	ug/L	871438.669
	205	Tl	2.754775	21.295	58478.431	ug/L	12873.293
	208	Pb	72.461102	1.726	1746352.178	ug/L	5892.860
	238	U	3.515561	1.010	85471.783	ug/L	4539.435
>	115	In-2			559546.893	ug/L	628564.297
	137	Ba	1136.094756	1.481	3523181.896	ug/L	677.690
>	197	Au-2			770027.223	ug/L	871438.669
	206	Pb	75.110956	0.821	449486.637	ug/L	1442.421
	207	Pb	71.355800	1.520	379345.259	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	139.449	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.653	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	89.020	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	89.020
	Ba	137	
>	Au-2	197	88.363
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H
Zn	66	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3V
Sample Date/Time: Tuesday, April 13, 2010 02:45:01
Autosampler Position: 72
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3V.139

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			221774.926	ug/L	219065.440
|	23	Na	83.048836	3.220	294040.582	ug/L	11860.377
|	24	Mg	4824.966534	1.802	10863318.467	ug/L	3830.886
|	27	Al	9520.292042	2.839	32087549.797	ug/L	6628.604
|	39	K	1911.533112	1.579	12234819.954	ug/L	716897.807
|	44	Ca	32463.549526	0.500	7073975.872	ug/L	91324.351
|	57	Fe	10224.050763	1.862	2265064.327	ug/L	12818.592
|	9	Be	0.523787	12.881	221.337	ug/L	48.334
|	51	V	28.901305	2.832	181618.741	ug/L	-30646.865
|	52	Cr	9.341590	2.530	93683.788	ug/L	30184.830
|	55	Mn	333.655580	0.545	3496458.476	ug/L	4011.938
|	59	Co	5.520501	2.271	47998.316	ug/L	1537.098
⌊	60	Ni	11.250630	0.899	22820.775	ug/L	860.035
⌈>	72	Ge-1			299342.877	ug/L	321356.208
|	65	Cu	12.881272	3.762	29519.437	ug/L	1104.721
|	66	Zn	398.453768	3.225	504975.941	ug/L	5408.412
|	75	As	4.398258	2.263	5683.682	ug/L	-1011.066
⌊	82	Se	0.179658	147.829	65.925	ug/L	39.252
⌈>	115	In-1			572526.120	ug/L	628564.297
|	97	Mo	0.182870	29.147	1358.745	ug/L	1099.053
|	107	Ag	19.317454	1.721	176373.371	ug/L	756.028
|	111	Cd	0.506053	4.139	1407.750	ug/L	402.343
|	123	Sb	-0.650405	3.881	1772.241	ug/L	5839.772
⌊	135	Ba	220.028695	3.257	414468.992	ug/L	419.010
⌈>	197	Au-1			818831.035	ug/L	871438.669
|	205	Tl	0.298088	36.143	17497.620	ug/L	12873.293
|	208	Pb	13.461989	2.004	349460.103	ug/L	5892.860
⌊	238	U	0.492470	1.675	16399.239	ug/L	4539.435
⌈>	115	In-2			572526.120	ug/L	628564.297
⌊	137	Ba	224.789062	4.154	713382.712	ug/L	677.690
⌈>	197	Au-2			818831.035	ug/L	871438.669
|	206	Pb	13.659621	2.101	88030.359	ug/L	1442.421
⌊	207	Pb	12.842743	1.879	73674.918	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	101.237	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	93.150	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	91.085	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
⌊	Ba	135		
⌈>	Au-1	197	93.963	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	91.085
	Ba	137	
>	Au-2	197	93.963
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3S
Sample Date/Time: Tuesday, April 13, 2010 02:49:32
Autosampler Position: 73
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3S.140

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			334471.787	ug/L	219065.440
	23	Na	3048.392010	1.497	15631520.513	ug/L	11860.377
	24	Mg	37553.776929	2.011	127461065.304	ug/L	3830.886
	27	Al	54680.542274	1.320	277925346.269	ug/L	6628.604
	39	K	11870.805177	2.239	108869386.415	ug/L	716897.807
	44	Ca	133223.985759	0.818	43343063.415	ug/L	91324.351
	57	Fe	42245.167319	3.747	14050951.977	ug/L	12818.592
	9	Be	297.265619	0.628	147815.164	ug/L	48.334
	51	V	388.129143	3.497	4260043.420	ug/L	-30646.865
	52	Cr	349.351609	2.771	3605934.235	ug/L	30184.830
	55	Mn	1429.386622	0.932	22572576.118	ug/L	4011.938
	59	Co	315.662901	3.152	4007221.682	ug/L	1537.098
	60	Ni	334.793376	2.514	986221.789	ug/L	860.035
>	72	Ge-1			311325.870	ug/L	321356.208
	65	Cu	489.607838	3.146	1127906.497	ug/L	1104.721
	66	Zn	934.778173	1.021	1225348.585	ug/L	5408.412
	75	As	480.809387	2.837	752094.994	ug/L	-1011.066
	82	Se	425.125539	1.070	73284.194	ug/L	39.252
>	115	In-1			543693.321	ug/L	628564.297
	97	Mo	512.086144	1.339	954112.636	ug/L	1099.053
	107	Ag	150.090914	2.164	1297271.689	ug/L	756.028
	111	Cd	501.150683	1.331	980075.438	ug/L	402.343
	123	Sb	108.331981	1.126	565701.986	ug/L	5839.772
	135	Ba	1665.206122	1.792	2978387.529	ug/L	419.010
>	197	Au-1			753033.289	ug/L	871438.669
	205	Tl	474.048521	1.732	7936222.463	ug/L	12873.293
	208	Pb	576.651253	0.440	13556114.492	ug/L	5892.860
	238	U	512.335429	2.235	11613015.757	ug/L	4539.435
>	115	In-2			543693.321	ug/L	628564.297
	137	Ba	1685.726800	2.663	5080667.927	ug/L	677.690
>	197	Au-2			753033.289	ug/L	871438.669
	206	Pb	565.833063	1.737	3303589.081	ug/L	1442.421
	207	Pb	591.457582	0.834	3066286.601	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	152.681	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.879	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	86.498	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	86.413	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.498
	Ba	137	
>	Au-2	197	88.413
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3D
Sample Date/Time: Tuesday, April 13, 2010 02:54:03
Autosampler Position: 74
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3D.141

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			341018.038	ug/L	219065.440
	23	Na	3064.727211	1.077	16025213.063	ug/L	11860.377
	24	Mg	18129.102178	1.597	62758787.350	ug/L	3830.886
	27	Al	58126.135392	1.312	301262865.957	ug/L	6628.604
	39	K	12455.046923	1.418	116436782.611	ug/L	716897.807
	44	Ca	115849.452459	1.990	38451089.979	ug/L	91324.351
	57	Fe	44894.833202	2.250	15227070.006	ug/L	12818.592
	9	Be	304.559889	0.188	154401.120	ug/L	48.334
	51	V	394.488483	1.993	4416537.702	ug/L	-30646.865
	52	Cr	375.279020	1.798	3947451.150	ug/L	30184.830
	55	Mn	1145.786554	0.524	18448331.694	ug/L	4011.938
	59	Co	315.196923	1.901	4080816.847	ug/L	1537.098
	60	Ni	353.216646	0.629	1061094.387	ug/L	860.035
>	72	Ge-1			316270.269	ug/L	321356.208
	65	Cu	489.600703	3.043	1145811.875	ug/L	1104.721
	66	Zn	939.422742	2.572	1250844.863	ug/L	5408.412
	75	As	488.862425	2.136	776778.320	ug/L	-1011.066
	82	Se	447.896546	0.867	78430.479	ug/L	39.252
>	115	In-1			549227.735	ug/L	628564.297
	97	Mo	519.559571	2.091	977774.770	ug/L	1099.053
	107	Ag	152.377091	1.129	1330533.878	ug/L	756.028
	111	Cd	508.521835	1.585	1004567.778	ug/L	402.343
	123	Sb	117.950913	3.048	621625.798	ug/L	5839.772
	135	Ba	1702.128890	3.150	3074713.201	ug/L	419.010
>	197	Au-1			753140.117	ug/L	871438.669
	205	Tl	500.415456	2.414	8374680.937	ug/L	12873.293
	208	Pb	560.578456	1.953	13176757.298	ug/L	5892.860
	238	U	530.568204	1.560	12025858.086	ug/L	4539.435
>	115	In-2			549227.735	ug/L	628564.297
	137	Ba	1734.561724	1.723	5280416.169	ug/L	677.690
>	197	Au-2			753140.117	ug/L	871438.669
	206	Pb	544.587993	1.316	3179200.371	ug/L	1442.421
	207	Pb	574.151311	1.472	2976560.387	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	155.669	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.417	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.378	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	87.378
|	Ba	137	
⌈>	Au-2	197	86.425
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3A
Sample Date/Time: Tuesday, April 13, 2010 02:58:34
Autosampler Position: 75
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3A.142

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			305235.711	ug/L	219065.440
	23	Na	433.974804	1.912	2045411.877	ug/L	11860.377
	24	Mg	16888.527321	0.499	52326008.666	ug/L	3830.886
	27	Al	33827.360157	2.377	156914058.617	ug/L	6628.604
	39	K	7431.884556	0.263	62591779.736	ug/L	716897.807
	44	Ca	119360.413070	2.271	35455123.371	ug/L	91324.351
	57	Fe	37461.809668	1.268	11374770.809	ug/L	12818.592
	9	Be	3.724874	0.452	1756.792	ug/L	48.334
	51	V	127.721639	2.403	1250722.212	ug/L	-30646.865
	52	Cr	79.715615	1.767	783520.299	ug/L	30184.830
	55	Mn	1230.062033	1.979	17724681.374	ug/L	4011.938
	59	Co	28.606772	0.919	333420.496	ug/L	1537.098
	60	Ni	61.350894	3.215	165943.826	ug/L	860.035
>	72	Ge-1			311602.609	ug/L	321356.208
	65	Cu	66.699224	3.007	154733.622	ug/L	1104.721
	66	Zn	1707.038011	2.562	2235368.075	ug/L	5408.412
	75	As	65.716219	3.837	102064.141	ug/L	-1011.066
	82	Se	23.965077	0.532	4170.790	ug/L	39.252
>	115	In-1			552941.662	ug/L	628564.297
	97	Mo	30.044674	0.122	57841.493	ug/L	1099.053
	107	Ag	105.737088	2.768	929203.541	ug/L	756.028
	111	Cd	5.649769	2.493	11585.816	ug/L	402.343
	123	Sb	27.573647	2.216	150207.712	ug/L	5839.772
	135	Ba	1135.763534	3.248	2065385.979	ug/L	419.010
>	197	Au-1			765844.453	ug/L	871438.669
	205	Tl	13.150222	1.936	234900.591	ug/L	12873.293
	208	Pb	87.327133	0.440	2092189.810	ug/L	5892.860
	238	U	9.146493	2.708	214782.837	ug/L	4539.435
>	115	In-2			552941.662	ug/L	628564.297
	137	Ba	1146.718802	3.069	3513549.605	ug/L	677.690
>	197	Au-2			765844.453	ug/L	871438.669
	206	Pb	89.783781	1.378	534127.276	ug/L	1442.421
	207	Pb	85.211405	0.641	450311.216	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	139.335	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.965	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.969	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

!	Tl	205	
|	Pb	208	
L	U	238	
Γ>	In-2	115	87.969
L	Ba	137	
Γ>	Au-2	197	87.883
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H
Zn	66	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA8
Sample Date/Time: Tuesday, April 13, 2010 03:03:05
Autosampler Position: 76
Dataset File: D:\Elandata\Dataset\041210M1\LXPA8.143

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			304378.530	ug/L	219065.440
	23	Na	319.224642	1.613	1504438.055	ug/L	11860.377
	24	Mg	12431.633710	0.155	38411221.498	ug/L	3830.886
	27	Al	37668.143716	3.325	174209499.796	ug/L	6628.604
	39	K	8023.896808	2.738	67295582.764	ug/L	716897.807
	44	Ca	107758.782080	1.270	31930757.231	ug/L	91324.351
	57	Fe	40995.330443	0.240	12411887.104	ug/L	12818.592
	9	Be	2.265678	3.197	1092.053	ug/L	48.334
	51	V	102.904400	2.751	996896.844	ug/L	-30646.865
	52	Cr	54.982409	3.860	552099.769	ug/L	30184.830
	55	Mn	902.116679	2.350	12962586.988	ug/L	4011.938
	59	Co	22.436874	2.381	261190.165	ug/L	1537.098
	60	Ni	44.612228	0.502	120660.342	ug/L	860.035
>	72	Ge-1			315742.412	ug/L	321356.208
	65	Cu	66.890415	4.425	157109.013	ug/L	1104.721
	66	Zn	263.734623	1.446	354349.366	ug/L	5408.412
	75	As	19.047536	5.423	29244.018	ug/L	-1011.066
	82	Se	0.622713	44.301	148.265	ug/L	39.252
>	115	In-1			557782.989	ug/L	628564.297
	97	Mo	1.755757	5.628	4326.032	ug/L	1099.053
	107	Ag	510.881531	3.424	4526913.396	ug/L	756.028
	111	Cd	8.692078	3.676	17782.908	ug/L	402.343
	123	Sb	0.168433	16.875	6074.816	ug/L	5839.772
	135	Ba	1089.520524	3.869	1999099.276	ug/L	419.010
>	197	Au-1			773493.939	ug/L	871438.669
	205	Tl	1.483906	10.243	36925.588	ug/L	12873.293
	208	Pb	94.743125	1.069	2291819.930	ug/L	5892.860
	238	U	3.263254	0.487	79982.450	ug/L	4539.435
>	115	In-2			557782.989	ug/L	628564.297
	137	Ba	1119.009466	2.216	3459503.597	ug/L	677.690
>	197	Au-2			773493.939	ug/L	871438.669
	206	Pb	97.115986	0.303	583407.493	ug/L	1442.421
	207	Pb	93.015300	2.218	496223.718	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	138.944	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.253	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.739	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.739
	Ba	137	
>	Au-2	197	88.761
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Ag	107	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA8S
Sample Date/Time: Tuesday, April 13, 2010 03:07:37
Autosampler Position: 77
Dataset File: D:\Elandata\Dataset\041210M1\LXPA8S.144

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			334581.097	ug/L	219065.440
23	Na	309.075788	2.842	1601634.236	ug/L	11860.377
24	Mg	13200.987945	3.355	44823499.925	ug/L	3830.886
27	Al	49324.502554	3.818	250754584.338	ug/L	6628.604
39	K	8935.282670	1.016	82261166.297	ug/L	716897.807
44	Ca	101080.702498	3.464	32924219.860	ug/L	91324.351
57	Fe	42882.756058	2.934	14267458.195	ug/L	12818.592
9	Be	2.273178	5.073	1204.063	ug/L	48.334
51	V	105.735587	2.512	1126861.520	ug/L	-30646.865
52	Cr	54.218687	1.860	598938.224	ug/L	30184.830
55	Mn	867.490064	1.547	13705596.619	ug/L	4011.938
59	Co	20.887852	4.527	267422.824	ug/L	1537.098
60	Ni	43.437477	2.386	129203.772	ug/L	860.035
72	Ge-1			315350.275	ug/L	321356.208
65	Cu	67.767133	2.309	159040.694	ug/L	1104.721
66	Zn	295.667646	1.362	396169.835	ug/L	5408.412
75	As	37.924891	4.407	59197.911	ug/L	-1011.066
82	Se	3.664342	14.931	678.302	ug/L	39.252
115	In-1			551256.566	ug/L	628564.297
97	Mo	3.189311	2.017	6982.776	ug/L	1099.053
107	Ag	394.214235	1.436	3453725.703	ug/L	756.028
111	Cd	9.567802	0.199	19357.299	ug/L	402.343
123	Sb	19.496905	1.160	107424.128	ug/L	5839.772
135	Ba	1195.149573	1.050	2167448.056	ug/L	419.010
197	Au-1			770831.477	ug/L	871438.669
205	Tl	28.673750	2.101	501967.229	ug/L	12873.293
208	Pb	126.986630	2.422	3059064.087	ug/L	5892.860
238	U	3.438065	2.811	83738.557	ug/L	4539.435
115	In-2			551256.566	ug/L	628564.297
137	Ba	1210.383037	1.334	3698733.160	ug/L	677.690
197	Au-2			770831.477	ug/L	871438.669
206	Pb	132.111819	2.540	790494.109	ug/L	1442.421
207	Pb	123.817883	2.815	657872.046	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	152.731	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	98.131	
Cu	65		
Zn	66		
As	75		
Se	82		
In-1	115	87.701	
Mo	97		
Ag	107		
Cd	111		
Sb	123		
Ba	135		
Au-1	197	88.455	

|	Tl	205	
|	Pb	208	
L	U	238	
Γ>	In-2	115	87.701
L	Ba	137	
Γ>	Au-2	197	88.455
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Ag	107	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 03:12:09
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.145

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			209098.019	ug/L	219065.440
|	23	Na	3815.936939	4.113	12228296.933	ug/L	11860.377
|	24	Mg	7695.972156	3.730	16333078.595	ug/L	3830.886
|	27	Al	3843.058477	1.856	12217971.339	ug/L	6628.604
|	39	K	3880.595902	2.372	22716416.360	ug/L	716897.807
|	44	Ca	8002.740160	1.743	1709662.057	ug/L	91324.351
|	57	Fe	8061.040724	3.113	1686079.298	ug/L	12818.592
|	9	Be	1004.659401	1.319	312162.499	ug/L	48.334
|	51	V	946.452962	1.165	6537065.647	ug/L	-30646.865
|	52	Cr	973.847124	1.433	6234358.394	ug/L	30184.830
|	55	Mn	970.623261	2.039	9581480.314	ug/L	4011.938
|	59	Co	973.261782	1.651	7721816.850	ug/L	1537.098
|	60	Ni	956.931295	2.384	1761097.820	ug/L	860.035
⌈>	72	Ge-1			293051.867	ug/L	321356.208
|	65	Cu	937.102273	3.028	2030755.252	ug/L	1104.721
|	66	Zn	964.056317	1.536	1189259.976	ug/L	5408.412
|	75	As	968.773979	2.582	1427216.695	ug/L	-1011.066
|	82	Se	972.245364	0.633	157708.135	ug/L	39.252
⌈>	115	In-1			540528.951	ug/L	628564.297
|	97	Mo	1011.489439	0.722	1872779.973	ug/L	1099.053
|	107	Ag	197.343940	2.330	1695369.271	ug/L	756.028
|	111	Cd	976.523506	1.777	1898099.732	ug/L	402.343
|	123	Sb	519.099980	3.004	2675260.073	ug/L	5839.772
|	135	Ba	1019.739776	2.906	1813064.208	ug/L	419.010
⌈>	197	Au-1			795706.175	ug/L	871438.669
|	205	Tl	950.648322	0.114	16804017.067	ug/L	12873.293
|	208	Pb	956.556898	2.109	23753994.100	ug/L	5892.860
|	238	U	970.085485	2.546	23227678.996	ug/L	4539.435
⌈>	115	In-2			540528.951	ug/L	628564.297
|	137	Ba	1044.980365	3.180	3130964.987	ug/L	677.690
⌈>	197	Au-2			795706.175	ug/L	871438.669
|	206	Pb	960.757882	2.761	5924414.716	ug/L	1442.421
|	207	Pb	963.541773	2.522	5277038.120	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	95.450	
|	Na	23		95.398
|	Mg	24		96.200
|	Al	27		96.076
|	K	39		97.015
|	Ca	44		100.034
|	Fe	57		100.763
|	Be	9		100.466
|	V	51		94.645
|	Cr	52		97.385
|	Mn	55		97.062
|	Co	59		97.326
|	Ni	60		95.893
⌈>	Ge-1	72	91.192	
|	Cu	65		93.710
|	Zn	66		96.406
|	As	75		96.877
|	Se	82		97.225
⌈>	In-1	115	85.994	
|	Mo	97		101.149
|	Ag	107		98.672
|	Cd	111		97.652
|	Sb	123		103.820
|	Ba	135		101.974
⌈>	Au-1	197	91.300	

	Tl	205		95.065
	Pb	208		95.656
	U	238		97.089
>	In-2	115	85.994	
	Ba	137		104.498
>	Au-2	197	91.309	
	Pb	206		96.076
	Pb	207		96.354

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 03:17:12
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.146

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			198254.697	ug/L	219065.440
	23	Na	1.290293	28.900	14634.653	ug/L	11860.377
	24	Mg	3.233101	20.504	9956.933	ug/L	3830.886
	27	Al	4.971035	19.707	20951.398	ug/L	6628.604
	39	K	14.331798	33.056	725527.393	ug/L	716897.807
	44	Ca	39.126979	25.877	90139.050	ug/L	91324.351
	57	Fe	7.553118	15.386	13086.739	ug/L	12818.592
	9	Be	0.201157	41.740	102.668	ug/L	48.334
	51	V	-0.556944	187.993	-31318.568	ug/L	-30646.865
	52	Cr	-0.171831	7.762	26280.426	ug/L	30184.830
	55	Mn	0.246008	21.615	5929.294	ug/L	4011.938
	59	Co	0.190583	23.875	2820.975	ug/L	1537.098
	60	Ni	0.165269	13.495	1066.050	ug/L	860.035
>	72	Ge-1			291663.675	ug/L	321356.208
	65	Cu	0.217096	25.661	1468.090	ug/L	1104.721
	66	Zn	0.506049	34.762	5522.789	ug/L	5408.412
	75	As	0.839886	33.467	320.645	ug/L	-1011.066
	82	Se	0.248275	255.905	73.925	ug/L	39.252
>	115	In-1			552696.567	ug/L	628564.297
	97	Mo	0.868854	39.672	2607.273	ug/L	1099.053
	107	Ag	0.073333	24.071	1308.073	ug/L	756.028
	111	Cd	0.182663	19.788	716.692	ug/L	402.343
	123	Sb	1.921392	47.501	15216.027	ug/L	5839.772
	135	Ba	0.230879	22.310	788.030	ug/L	419.010
>	197	Au-1			788248.949	ug/L	871438.669
	205	Tl	1.737636	34.954	42022.710	ug/L	12873.293
	208	Pb	0.262197	19.125	11783.376	ug/L	5892.860
	238	U	0.245742	25.575	9940.278	ug/L	4539.435
>	115	In-2			552696.567	ug/L	628564.297
	137	Ba	0.241921	22.602	1336.743	ug/L	677.690
>	197	Au-2			788248.949	ug/L	871438.669
	206	Pb	0.245478	18.302	2804.972	ug/L	1442.421
	207	Pb	0.263926	20.731	2699.951	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.500	
	Na	23		129.029
	Mg	24		323.310
	Al	27		497.103
	K	39		1433.180
	Ca	44		3912.698
	Fe	57		755.312
	Be	9		20.116
	V	51		-55.694
	Cr	52		-17.183
	Mn	55		24.601
	Co	59		19.058
	Ni	60		16.527
>	Ge-1	72	98.760	
	Cu	65		21.710
	Zn	66		50.605
	As	75		83.989
	Se	82		24.828
>	In-1	115	87.930	
	Mo	97		86.885
	Ag	107		7.333
	Cd	111		18.266
	Sb	123		192.139
	Ba	135		23.088
>	Au-1	197	90.454	

|	Tl	205		173.764
|	Pb	208		26.220
|	U	238		24.574
⌈>	In-2	115	87.930	
|	Ba	137		24.192
⌈>	Au-2	197	90.454	
|	Pb	206		24.548
|	Pb	207		26.393

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA9
Sample Date/Time: Tuesday, April 13, 2010 03:22:14
Autosampler Position: 78
Dataset File: D:\Elandata\Dataset\041210M1\LXPA9.147

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			311902.139	ug/L	219065.440
	23	Na	272.271857	2.866	1316972.707	ug/L	11860.377
	24	Mg	11200.498681	3.443	35444996.033	ug/L	3830.886
	27	Al	37130.094988	3.348	175929942.130	ug/L	6628.604
	39	K	7534.270110	2.812	64803944.204	ug/L	716897.807
	44	Ca	108783.387275	2.507	33023310.734	ug/L	91324.351
	57	Fe	40477.325315	4.298	12552101.437	ug/L	12618.592
	9	Be	2.243860	5.746	1108.054	ug/L	48.334
	51	V	99.542211	1.193	986794.257	ug/L	-30646.865
	52	Cr	51.611115	2.662	533419.866	ug/L	30184.830
	55	Mn	913.382870	2.903	13444780.495	ug/L	4011.938
	59	Co	22.057408	3.463	263051.817	ug/L	1537.098
	60	Ni	45.029876	0.701	124787.465	ug/L	860.035
[>	72	Ge-1			309072.346	ug/L	321356.208
	65	Cu	64.168455	0.788	147687.319	ug/L	1104.721
	66	Zn	235.348435	0.484	310170.488	ug/L	5408.412
	75	As	20.808573	5.320	31385.139	ug/L	-1011.066
	82	Se	0.234244	158.008	77.797	ug/L	39.252
[>	115	In-1			545638.756	ug/L	628564.297
	97	Mo	2.300875	1.384	5252.018	ug/L	1099.053
	107	Ag	420.710181	1.536	3648756.118	ug/L	756.028
	111	Cd	5.794554	0.267	11717.922	ug/L	402.343
	123	Sb	0.815071	29.626	9292.766	ug/L	5839.772
	135	Ba	1078.365381	0.916	1935572.852	ug/L	419.010
[>	197	Au-1			762890.595	ug/L	871438.669
	205	Tl	1.583980	11.859	38078.592	ug/L	12873.293
	208	Pb	78.713592	1.204	1878963.676	ug/L	5892.860
	238	U	3.013992	2.406	73156.591	ug/L	4539.435
[>	115	In-2			545638.756	ug/L	628564.297
	137	Ba	1114.220978	2.681	3369463.824	ug/L	677.690
[>	197	Au-2			762890.595	ug/L	871438.669
	206	Pb	81.775176	1.551	484688.696	ug/L	1442.421
	207	Pb	77.372638	0.229	407424.535	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	142.379	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
[>	Ge-1	72	96.177	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
[>	In-1	115	86.807	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
[>	Au-1	197	77.544	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	86.807
⌊	Ba	137	
⌈>	Au-2	197	87.544
|	Pb	206	
⌊	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Ag	107	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCA
Sample Date/Time: Tuesday, April 13, 2010 03:26:45
Autosampler Position: 79
Dataset File: D:\Elandata\Dataset\041210M1\LXPCA.148

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			296049.531	ug/L	219065.440
	23	Na	302.846718	2.098	1389074.312	ug/L	11860.377
	24	Mg	12110.576347	1.457	36392665.855	ug/L	3830.886
	27	Al	36019.909850	2.854	162052574.134	ug/L	6628.604
	39	K	7977.110066	3.706	65079099.151	ug/L	716897.807
	44	Ca	113299.139643	2.947	32643802.902	ug/L	91324.351
	57	Fe	40331.651071	3.208	11876095.431	ug/L	12818.592
	9	Be	2.260198	3.583	1059.383	ug/L	48.334
	51	V	97.842289	2.532	919618.869	ug/L	-30646.865
	52	Cr	49.864314	0.710	490683.719	ug/L	30184.830
	55	Mn	957.940810	1.569	13389552.119	ug/L	4011.938
	59	Co	22.124723	1.691	250612.452	ug/L	1537.098
	60	Ni	45.118367	1.735	118677.534	ug/L	860.035
>	72	Ge-1			312563.221	ug/L	321356.208
	65	Cu	63.671144	0.952	148209.429	ug/L	1104.721
	66	Zn	508.336359	1.241	671412.086	ug/L	5408.412
	75	As	19.028267	3.992	28946.250	ug/L	-1011.066
	82	Se	-0.233142	120.254	-2.296	ug/L	39.252
>	115	In-1			551892.458	ug/L	628564.297
	97	Mo	1.694903	2.479	4166.649	ug/L	1099.053
	107	Ag	221.550798	1.085	1943358.687	ug/L	756.028
	111	Cd	3.822191	1.396	7938.285	ug/L	402.343
	123	Sb	0.696024	10.193	8780.788	ug/L	5839.772
	135	Ba	1263.221133	2.756	2292943.124	ug/L	419.010
>	197	Au-1			762236.968	ug/L	871438.669
	205	Tl	1.075403	8.342	29441.967	ug/L	12873.293
	208	Pb	85.411598	3.256	2035817.386	ug/L	5892.860
	238	U	3.349002	2.615	80759.101	ug/L	4539.435
>	115	In-2			551892.458	ug/L	628564.297
	137	Ba	1283.168238	3.605	3924289.298	ug/L	677.690
>	197	Au-2			762236.968	ug/L	871438.669
	206	Pb	88.415610	3.967	523231.150	ug/L	1442.421
	207	Pb	83.913931	4.004	441126.212	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	135.142	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.264	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.802	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.489	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.802
	Ba	137	
>	Au-2	197	87.469
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Ag	107	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCC
Sample Date/Time: Tuesday, April 13, 2010 03:31:17
Autosampler Position: 80
Dataset File: D:\Elandata\Dataset\041210M1\LXPCC.149

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			308677.800	ug/L	219065.440
	23	Na	431.753606	0.786	2057852.460	ug/L	11860.377
	24	Mg	12077.250815	1.202	37842451.392	ug/L	3830.886
	27	Al	36861.209854	2.457	172930915.960	ug/L	6528.604
	39	K	8014.803561	0.582	68186342.914	ug/L	716897.807
	44	Ca	109181.414746	2.114	32805208.656	ug/L	91324.351
	57	Fe	41209.635213	1.681	12651945.508	ug/L	12818.592
	9	Be	2.228277	1.934	1090.052	ug/L	48.334
	51	V	95.679322	3.037	936913.473	ug/L	-30646.865
	52	Cr	46.408772	4.103	479070.705	ug/L	30184.830
	55	Mn	1003.069337	3.036	14616584.274	ug/L	4011.938
	59	Co	23.034121	1.785	271960.526	ug/L	1537.098
	60	Ni	46.885848	1.579	128553.669	ug/L	860.035
>	72	Ge-1			326714.739	ug/L	321356.208
	65	Cu	67.290454	3.797	163576.356	ug/L	1104.721
	66	Zn	466.962344	2.850	644878.859	ug/L	5408.412
	75	As	19.753071	20.257	31434.595	ug/L	-1011.066
	82	Se	0.347989	135.661	101.731	ug/L	39.252
>	115	In-1			552226.296	ug/L	628564.297
	97	Mo	1.779038	4.365	4329.367	ug/L	1099.053
	107	Ag	124.570344	1.231	1093671.199	ug/L	756.028
	111	Cd	3.430909	1.385	7165.535	ug/L	402.343
	123	Sb	0.531392	17.993	7920.912	ug/L	5839.772
	135	Ba	1476.062199	1.460	2681483.743	ug/L	419.010
>	197	Au-1			755349.902	ug/L	871438.669
	205	Tl	1.072450	5.990	29136.325	ug/L	12873.293
	208	Pb	84.107634	1.938	1987637.319	ug/L	5892.860
	238	U	3.383739	1.109	80843.244	ug/L	4539.435
>	115	In-2			552226.296	ug/L	628564.297
	137	Ba	1483.181045	2.360	4539676.415	ug/L	677.690
>	197	Au-2			755349.902	ug/L	871438.669
	206	Pb	88.396695	2.455	518702.983	ug/L	1442.421
	207	Pb	82.816885	2.682	431678.822	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	140.907	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.667	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.855	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	86.679	

¦	Tl	205	
¦	Pb	208	
L	U	238	
⌈>	In-2	115	87.855
L	Ba	137	
⌈>	Au-2	197	86.678
¦	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCD
Sample Date/Time: Tuesday, April 13, 2010 03:35:49
Autosampler Position: 81
Dataset File: D:\Elandata\Dataset\041210M1\LXPCD.150

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			309868.684	ug/L	219065.440
	23	Na	414.178531	3.182	1981188.094	ug/L	11860.377
	24	Mg	12279.020970	3.802	38592681.240	ug/L	3830.886
	27	Al	36969.893814	4.342	173951958.110	ug/L	6628.604
	39	K	7766.277797	4.355	66295319.584	ug/L	716897.807
	44	Ca	122897.726471	3.401	37029595.636	ug/L	91324.351
	57	Fe	43325.358874	4.466	13346205.873	ug/L	12818.592
	9	Be	2.284850	6.428	1119.055	ug/L	48.334
	51	V	96.437739	2.361	948525.400	ug/L	-30646.865
	52	Cr	51.751072	3.682	531145.560	ug/L	30184.830
	55	Mn	1049.176421	4.412	15339249.399	ug/L	4011.938
	59	Co	23.145802	4.066	274078.215	ug/L	1537.098
	60	Ni	47.256746	3.218	129960.790	ug/L	860.035
>	72	Ge-1			325139.898	ug/L	321356.208
	65	Cu	73.419638	1.649	177572.239	ug/L	1104.721
	66	Zn	786.654571	1.230	1077750.560	ug/L	5408.412
	75	As	20.394395	16.444	32372.113	ug/L	-1011.066
	82	Se	-0.419452	8.438	-35.787	ug/L	39.252
>	115	In-1			551027.869	ug/L	628564.297
	97	Mo	1.741344	3.319	4247.340	ug/L	1099.053
	107	Ag	434.548525	3.639	3804446.497	ug/L	756.028
	111	Cd	7.886659	2.314	15974.753	ug/L	402.343
	123	Sb	0.400266	12.403	7216.017	ug/L	5839.772
	135	Ba	1433.285537	2.656	2597420.758	ug/L	419.010
>	197	Au-1			758925.202	ug/L	871438.669
	205	Tl	0.986768	5.112	27837.059	ug/L	12873.293
	208	Pb	85.432712	1.648	2028448.141	ug/L	5892.860
	238	U	3.337770	2.075	80177.535	ug/L	4539.435
>	115	In-2			551027.869	ug/L	628564.297
	137	Ba	1469.293095	3.737	4486106.486	ug/L	677.690
>	197	Au-2			758925.202	ug/L	871438.669
	206	Pb	89.096330	3.046	525296.803	ug/L	1442.421
	207	Pb	84.049628	0.541	440184.056	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	141.450	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.177	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.665	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.089	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.665
	Ba	137	
>	Au-2	197	87.089
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H
Ag	107	H
Ba	135	H
Ba	137	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCE
Sample Date/Time: Tuesday, April 13, 2010 03:40:21
Autosampler Position: 82
Dataset File: D:\Elandata\Dataset\041210M1\LXPCE.151

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			288710.301	ug/L	219065.440
	23	Na	294.981133	0.650	1319908.731	ug/L	11860.377
	24	Mg	10982.364380	1.671	32181664.410	ug/L	3830.886
	27	Al	32621.669045	1.050	143145957.642	ug/L	6628.604
	39	K	6934.703431	3.015	55296489.679	ug/L	716897.807
	44	Ca	117538.078925	1.452	33024332.290	ug/L	91324.351
	57	Fe	37292.220777	1.954	10711993.332	ug/L	12818.592
	9	Be	2.045453	3.018	941.040	ug/L	48.334
	51	V	87.737655	1.411	800192.970	ug/L	-30646.865
	52	Cr	42.395465	1.129	412779.656	ug/L	30184.830
	55	Mn	831.740145	1.452	11337111.772	ug/L	4011.938
	59	Co	20.854450	1.436	230426.472	ug/L	1537.098
	60	Ni	41.764769	1.154	107204.491	ug/L	860.035
>	72	Ge-1			316270.834	ug/L	321356.208
	65	Cu	49.395386	2.382	116571.302	ug/L	1104.721
	66	Zn	224.659901	1.419	303184.119	ug/L	5408.412
	75	As	13.433533	8.427	20373.160	ug/L	-1011.066
	82	Se	-0.412652	111.310	-33.754	ug/L	39.252
>	115	In-1			547604.331	ug/L	628564.297
	97	Mo	1.387399	4.400	3556.478	ug/L	1099.053
	107	Ag	86.531861	3.611	753103.217	ug/L	756.028
	111	Cd	2.028891	0.484	4345.705	ug/L	402.343
	123	Sb	0.101003	31.006	5611.236	ug/L	5839.772
	135	Ba	1009.572973	3.285	1817884.801	ug/L	419.010
>	197	Au-1			759686.206	ug/L	871438.669
	205	Tl	0.666063	1.660	22455.528	ug/L	12873.293
	208	Pb	66.237426	1.597	1575320.813	ug/L	5892.860
	238	U	2.691993	0.770	65498.469	ug/L	4539.435
>	115	In-2			547604.331	ug/L	628564.297
	137	Ba	996.573702	2.587	3023902.630	ug/L	677.690
>	197	Au-2			759686.206	ug/L	871438.669
	206	Pb	68.077343	2.456	402009.410	ug/L	1442.421
	207	Pb	64.382324	2.602	337761.819	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	131.792	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.418	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.120	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.178	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	87.120
|	Ba	137	
⌈>	Au-2	197	87.176
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Ba	135	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3
Sample Date/Time: Tuesday, April 13, 2010 03:44:52
Autosampler Position: 83
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3.152

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			223868.061	ug/L	219065.440
	23	Na	85.505095	3.017	305220.970	ug/L	11860.377
	24	Mg	4891.317169	2.632	11113459.695	ug/L	3830.886
	27	Al	9628.461424	3.636	32746801.765	ug/L	6628.604
	39	K	1970.629719	4.808	12705749.677	ug/L	716897.807
	44	Ca	32987.999009	3.962	7251032.174	ug/L	91324.351
	57	Fe	10388.651208	5.639	2321196.282	ug/L	12818.592
	9	Be	0.478306	10.177	208.670	ug/L	48.334
	51	V	29.754788	1.532	189689.991	ug/L	-30646.865
	52	Cr	9.994283	1.356	99022.064	ug/L	30184.830
	55	Mn	334.026801	3.061	3532128.735	ug/L	4011.938
	59	Co	5.606761	3.749	49164.624	ug/L	1537.098
	60	Ni	11.723730	4.471	23952.976	ug/L	860.035
>	72	Ge-1			303440.086	ug/L	321356.208
	65	Cu	13.089561	3.999	30388.596	ug/L	1104.721
	66	Zn	407.874624	3.716	523691.216	ug/L	5408.412
	75	As	4.285961	1.060	5589.500	ug/L	-1011.066
	82	Se	0.226424	65.706	74.692	ug/L	39.252
>	115	In-1			569038.444	ug/L	628564.297
	97	Mo	0.004924	517.719	1004.379	ug/L	1099.053
	107	Ag	19.927905	0.300	180871.680	ug/L	756.028
	111	Cd	0.484721	1.223	1356.078	ug/L	402.343
	123	Sb	-0.727450	0.265	1346.566	ug/L	5839.772
	135	Ba	228.966117	1.080	428919.280	ug/L	419.010
>	197	Au-1			816815.828	ug/L	871438.669
	205	Tl	-0.279725	7.666	6990.115	ug/L	12873.293
	208	Pb	13.261640	1.019	343518.358	ug/L	5892.860
	238	U	0.465809	3.255	15699.446	ug/L	4539.435
>	115	In-2			569038.444	ug/L	628564.297
	137	Ba	232.704810	0.903	734529.204	ug/L	677.690
>	197	Au-2			816815.828	ug/L	871438.669
	206	Pb	13.480394	0.944	86673.021	ug/L	1442.421
	207	Pb	12.892807	1.599	73769.391	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.192	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.425	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.530	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	93.732	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	90.530
	Ba	137	
>	Au-2	197	93.732
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3V
Sample Date/Time: Tuesday, April 13, 2010 03:49:23
Autosampler Position: 84
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3V.153

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213146.675	ug/L	219065.440
	23	Na	25.087325	3.808	93367.721	ug/L	11860.377
	24	Mg	1122.382454	3.839	2429747.650	ug/L	3830.886
	27	Al	2218.215044	3.646	7186288.430	ug/L	6628.604
	39	K	462.768120	4.840	3372851.334	ug/L	716897.807
	44	Ca	7974.347266	2.581	1736208.704	ug/L	91324.351
	57	Fe	2392.884323	1.750	518914.935	ug/L	12818.592
	9	Be	-0.007452	10.480	44.667	ug/L	48.334
	51	V	9.685856	1.388	38678.981	ug/L	-30646.865
	52	Cr	0.065470	405.890	29754.930	ug/L	30184.830
	55	Mn	83.188309	4.212	839979.245	ug/L	4011.938
	59	Co	1.133875	6.271	10652.077	ug/L	1537.098
	60	Ni	2.455590	4.964	5436.422	ug/L	860.035
>	72	Ge-1			313839.255	ug/L	321356.208
	65	Cu	2.612849	3.174	7139.855	ug/L	1104.721
	66	Zn	88.578834	2.808	121813.810	ug/L	5408.412
	75	As	1.643875	4.371	1607.556	ug/L	-1011.066
	82	Se	-0.166176	108.564	9.329	ug/L	39.252
>	115	In-1			600686.629	ug/L	628564.297
	97	Mo	-0.298020	4.644	437.344	ug/L	1099.053
	107	Ag	3.989798	1.115	38800.675	ug/L	756.028
	111	Cd	-0.025326	43.180	329.674	ug/L	402.343
	123	Sb	-0.897925	0.132	446.693	ug/L	5839.772
	135	Ba	46.059663	2.152	91393.031	ug/L	419.010
>	197	Au-1			836776.314	ug/L	871438.669
	205	Tl	-0.328016	7.175	6265.773	ug/L	12873.293
	208	Pb	2.534290	2.987	71833.583	ug/L	5892.860
	238	U	-0.037625	1.493	3411.441	ug/L	4539.435
>	115	In-2			600686.629	ug/L	628564.297
	137	Ba	47.349137	2.569	158271.417	ug/L	677.690
>	197	Au-2			836776.314	ug/L	871438.669
	206	Pb	2.583475	3.034	18005.523	ug/L	1442.421
	207	Pb	2.453276	2.727	15470.196	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.298	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.661	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	95.565	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	95.565
	Ba	137	
>	Au-2	197	96.022
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3S
Sample Date/Time: Tuesday, April 13, 2010 03:53:54
Autosampler Position: 85
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3S.154

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			241604.957	ug/L	219065.440
	23	Na	942.257492	3.027	3498290.086	ug/L	11860.377
	24	Mg	11552.810189	3.624	28320125.411	ug/L	3830.886
	27	Al	16532.509023	3.310	60685398.342	ug/L	6628.604
	39	K	3493.088230	4.208	23691526.872	ug/L	716897.807
	44	Ca	38118.997810	1.704	9028881.754	ug/L	91324.351
	57	Fe	12046.500740	1.038	2904749.646	ug/L	12818.592
	9	Be	86.802536	1.995	31206.694	ug/L	48.334
	51	V	130.160241	2.766	1009654.640	ug/L	-30646.865
	52	Cr	106.331452	1.724	816172.479	ug/L	30184.830
	55	Mn	418.871355	3.315	4779417.037	ug/L	4011.938
	59	Co	99.739733	1.305	915821.007	ug/L	1537.098
	60	Ni	100.319212	2.439	214141.565	ug/L	860.035
>	72	Ge-1			307095.786	ug/L	321356.208
	65	Cu	110.665936	5.018	252141.929	ug/L	1104.721
	66	Zn	229.288507	4.171	300204.569	ug/L	5408.412
	75	As	104.783863	2.407	160881.130	ug/L	-1011.066
	82	Se	96.435765	4.289	16416.635	ug/L	39.252
>	115	In-1			571173.690	ug/L	628564.297
	97	Mo	99.604174	2.338	195784.783	ug/L	1099.053
	107	Ag	31.490191	3.107	286457.005	ug/L	756.028
	111	Cd	104.756818	1.512	215496.746	ug/L	402.343
	123	Sb	20.688432	0.459	117782.961	ug/L	5839.772
	135	Ba	339.531144	0.857	638251.627	ug/L	419.010
>	197	Au-1			796894.351	ug/L	871438.669
	205	Tl	94.416310	2.234	1682259.983	ug/L	12873.293
	208	Pb	118.066174	1.631	2941228.797	ug/L	5892.860
	238	U	95.178766	2.236	2286248.326	ug/L	4539.435
>	115	In-2			571173.690	ug/L	628564.297
	137	Ba	343.515021	2.513	1087996.024	ug/L	677.690
>	197	Au-2			796894.351	ug/L	871438.669
	206	Pb	116.126158	1.242	718490.532	ug/L	1442.421
	207	Pb	121.239573	2.807	666003.780	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	110.289	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.562	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	99.870	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.446	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	90.870
L	Ba	137	
⌈>	Au-2	197	91.446
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3D
Sample Date/Time: Tuesday, April 13, 2010 03:58:26
Autosampler Position: 86
Dataset File: D:\Elandata\Dataset\041210M1\LXNH3D.155

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			231848.750	ug/L	219065.440
23	Na	1003.057851	2.710	3573723.560	ug/L	11860.377
24	Mg	5852.738349	4.154	13773074.311	ug/L	3830.886
27	Al	18190.032877	0.745	64102559.065	ug/L	6628.604
39	K	3843.226359	1.552	24949414.351	ug/L	716897.807
44	Ca	34580.261681	2.559	7870058.834	ug/L	91324.351
57	Fe	13674.584007	3.156	3161955.601	ug/L	12818.592
9	Be	93.560350	1.310	32281.760	ug/L	48.334
51	V	136.938181	2.594	1021169.807	ug/L	-30646.865
52	Cr	119.497816	1.563	876420.283	ug/L	30184.830
55	Mn	346.287048	2.028	3793112.739	ug/L	4011.938
59	Co	106.237497	0.934	936191.312	ug/L	1537.098
60	Ni	109.847302	1.760	224944.108	ug/L	860.035
72	Ge-1			299362.748	ug/L	321356.208
65	Cu	112.485857	0.705	249989.578	ug/L	1104.721
66	Zn	232.191985	1.463	296455.929	ug/L	5408.412
75	As	106.925401	3.446	160056.670	ug/L	-1011.066
82	Se	101.651109	1.915	16874.862	ug/L	39.252
115	In-1			556908.400	ug/L	628564.297
97	Mo	102.303629	1.317	196019.337	ug/L	1099.053
107	Ag	32.218133	1.238	285759.346	ug/L	756.028
111	Cd	107.021702	0.889	214656.498	ug/L	402.343
123	Sb	23.210567	2.453	128219.248	ug/L	5839.772
135	Ba	356.984898	2.951	654295.299	ug/L	419.010
197	Au-1			797057.352	ug/L	871438.669
205	Tl	95.140493	1.303	1695079.575	ug/L	12873.293
208	Pb	111.817241	1.512	2786409.245	ug/L	5892.860
238	U	97.936459	2.393	2353024.672	ug/L	4539.435
115	In-2			556908.400	ug/L	628564.297
137	Ba	359.165059	1.129	1109193.580	ug/L	677.690
197	Au-2			797057.352	ug/L	871438.669
206	Pb	110.336724	0.895	682834.580	ug/L	1442.421
207	Pb	115.615169	1.561	635377.255	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	105.835	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	93.156	
Cu	65		
Zn	66		
As	75		
Se	82		
In-1	115	88.600	
Mo	97		
Ag	107		
Cd	111		
Sb	123		
Ba	135		
Au-1	197	91.465	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.600
|	Ba	137	
⌈>	Au-2	197	91.465
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNH3A

Sample Date/Time: Tuesday, April 13, 2010 04:02:58

Autosampler Position: 87

Dataset File: D:\Elandata\Dataset\041210M1\LXNH3A.156

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			225078.832	ug/L	219065.440
	23	Na	334.862845	0.868	1166556.165	ug/L	11860.377
	24	Mg	4992.167856	0.493	11408640.604	ug/L	3830.886
	27	Al	9448.073390	1.286	32327070.408	ug/L	6628.604
	39	K	2392.692014	0.795	15359340.297	ug/L	716897.807
	44	Ca	32746.689145	2.549	7240549.260	ug/L	91324.351
	57	Fe	10179.063831	2.064	2288800.769	ug/L	12818.592
	9	Be	2.840619	3.097	999.712	ug/L	48.334
	51	V	80.931344	1.100	572952.940	ug/L	-30646.865
	52	Cr	60.556500	0.577	446411.970	ug/L	30184.830
	55	Mn	336.240600	2.222	3575976.557	ug/L	4011.938
	59	Co	16.243746	0.535	140297.643	ug/L	1537.098
	60	Ni	35.575892	3.623	71331.838	ug/L	860.035
>	72	Ge-1			302271.829	ug/L	321356.208
	65	Cu	17.742417	0.522	40687.941	ug/L	1104.721
	66	Zn	417.126923	1.240	533720.147	ug/L	5408.412
	75	As	57.415193	3.269	86388.815	ug/L	-1011.066
	82	Se	26.308081	3.132	4437.888	ug/L	39.252
>	115	In-1			565247.541	ug/L	628564.297
	97	Mo	26.937970	0.838	53118.127	ug/L	1099.053
	107	Ag	29.027996	0.934	261373.851	ug/L	756.028
	111	Cd	3.214635	3.838	6892.398	ug/L	402.343
	123	Sb	26.680292	1.548	148776.830	ug/L	5839.772
	135	Ba	235.622582	1.223	438416.939	ug/L	419.010
>	197	Au-1			793025.124	ug/L	871438.669
	205	Tl	9.843036	5.475	184964.206	ug/L	12873.293
	208	Pb	28.502891	1.103	710731.933	ug/L	5892.860
	238	U	5.695576	0.661	140049.539	ug/L	4539.435
>	115	In-2			565247.541	ug/L	628564.297
	137	Ba	240.526832	3.009	753946.747	ug/L	677.690
>	197	Au-2			793025.124	ug/L	871438.669
	206	Pb	28.670075	2.089	177509.093	ug/L	1442.421
	207	Pb	27.933873	0.922	153718.865	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.745	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.081	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	89.827	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.002	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.827
	Ba	137	
>	Au-2	197	91.002
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 04:07:29
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.157

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			207885.588	ug/L	219065.440
|	23	Na	3750.653419	2.844	11950381.720	ug/L	11860.377
|	24	Mg	7543.788734	2.882	15916623.362	ug/L	3830.886
|	27	Al	3830.020121	2.126	12106080.996	ug/L	6628.604
|	39	K	3864.886285	0.348	22495123.693	ug/L	716897.807
|	44	Ca	7965.175786	1.025	1692149.264	ug/L	91324.351
|	57	Fe	7904.555699	1.769	1644094.861	ug/L	12818.592
|	9	Be	992.933032	1.724	306713.043	ug/L	48.334
|	51	V	949.007186	2.693	6515658.679	ug/L	-30646.865
|	52	Cr	952.668345	2.214	6063185.916	ug/L	30184.830
|	55	Mn	943.257156	4.218	9255226.010	ug/L	4011.938
|	59	Co	956.999729	3.261	7547316.631	ug/L	1537.098
⌊	60	Ni	980.865702	1.759	1794528.494	ug/L	860.035
⌈>	72	Ge-1			290332.030	ug/L	321356.208
|	65	Cu	956.920052	1.586	2054771.037	ug/L	1104.721
|	66	Zn	987.374663	2.122	1206569.873	ug/L	5408.412
|	75	As	985.897092	2.800	1438875.499	ug/L	-1011.066
⌊	82	Se	996.547578	4.096	160124.016	ug/L	39.252
⌈>	115	In-1			547420.715	ug/L	628564.297
|	97	Mo	1015.907270	2.061	1904985.974	ug/L	1099.053
|	107	Ag	197.965825	1.188	1722553.275	ug/L	756.028
|	111	Cd	988.953430	2.521	1946725.550	ug/L	402.343
|	123	Sb	512.806503	1.428	2676932.370	ug/L	5839.772
⌊	135	Ba	991.505293	0.298	1785634.342	ug/L	419.010
⌈>	197	Au-1			773832.604	ug/L	871438.669
|	205	Tl	960.504505	3.075	16504045.720	ug/L	12873.293
|	208	Pb	974.642584	4.006	23527473.257	ug/L	5892.860
⌊	238	U	959.805902	2.809	22351153.527	ug/L	4539.435
⌈>	115	In-2			547420.715	ug/L	628564.297
⌊	137	Ba	1010.618175	1.765	3066699.894	ug/L	677.690
⌈>	197	Au-2			773832.604	ug/L	871438.669
|	206	Pb	983.852848	5.264	5896762.733	ug/L	1442.421
⌊	207	Pb	986.745633	2.832	5253623.897	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	94.897	
|	Na	23		93.766
|	Mg	24		94.297
|	Al	27		95.751
|	K	39		96.622
|	Ca	44		99.565
|	Fe	57		98.807
|	Be	9		99.293
|	V	51		94.901
|	Cr	52		95.267
|	Mn	55		94.326
|	Co	59		95.700
⌊	Ni	60		98.087
⌈>	Ge-1	72	90.346	
|	Cu	65		95.692
|	Zn	66		98.737
|	As	75		98.590
⌊	Se	82		99.655
⌈>	In-1	115	87.091	
|	Mo	97		101.591
|	Ag	107		98.983
|	Cd	111		98.895
|	Sb	123		102.581
⌊	[illegible]	[illegible]		99.151
⌈>	Au-1	197	88.799	

|	Tl	205		96.050
|	Pb	206		97.464
L	U	238		95.981
⌈>	In-2	115	87.091	
L	Ba	137		101.062
⌈>	Au-2	197	88.799	
|	Pb	206		98.385
L	Pb	207		98.675

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 04:12:32
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.158

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			198879.922	ug/L	219065.440
23	Na	0.983647	20.555	13761.104	ug/L	11860.377
24	Mg	2.174786	23.698	7858.927	ug/L	3830.886
27	Al	1.789198	28.258	11412.048	ug/L	6628.604
39	K	12.134454	27.054	716092.115	ug/L	716897.807
44	Ca	24.748823	53.471	87643.242	ug/L	91324.351
57	Fe	5.035919	17.595	12630.285	ug/L	12818.592
9	Be	0.171464	28.461	94.335	ug/L	48.334
51	V	0.643961	429.166	-23428.971	ug/L	-30646.865
52	Cr	-0.265185	116.809	25767.181	ug/L	30184.830
55	Mn	0.185230	31.583	5373.736	ug/L	4011.938
59	Co	0.169021	33.805	2667.613	ug/L	1537.098
60	Ni	0.141497	40.400	1027.381	ug/L	860.035
72	Ge-1			288246.522	ug/L	321356.208
65	Cu	0.213573	26.867	1446.088	ug/L	1104.721
66	Zn	0.390432	22.051	5323.045	ug/L	5408.412
75	As	0.551111	110.956	-109.790	ug/L	-1011.066
82	Se	0.419574	73.338	102.229	ug/L	39.252
115	In-1			549152.559	ug/L	628564.297
97	Mo	0.849098	30.998	2554.926	ug/L	1099.053
107	Ag	0.053898	16.255	1130.723	ug/L	756.028
111	Cd	0.175079	17.737	697.691	ug/L	402.343
123	Sb	1.976776	44.143	15416.532	ug/L	5839.772
135	Ba	0.175410	7.185	683.023	ug/L	419.010
197	Au-1			788782.527	ug/L	871438.669
205	Tl	1.484905	39.141	37579.983	ug/L	12873.293
208	Pb	0.206823	6.976	10425.238	ug/L	5892.860
238	U	0.212128	6.086	9145.021	ug/L	4539.435
115	In-2			549152.559	ug/L	628564.297
137	Ba	0.202356	9.144	1208.397	ug/L	677.690
197	Au-2			788782.527	ug/L	871438.669
206	Pb	0.208946	9.471	2583.927	ug/L	1442.421
207	Pb	0.213184	7.720	2425.564	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	90.786	
Na	23		98.365
Mg	24		217.479
Al	27		178.820
K	39		1213.445
Ca	44		2474.882
Fe	57		503.592
Be	9		17.146
V	51		64.396
Cr	52		-26.519
Mn	55		18.523
Co	59		16.902
Ni	60		14.150
Ge-1	72	89.697	
Cu	65		21.357
Zn	66		39.043
As	75		55.111
Se	82		41.957
In-1	115	87.366	
Mo	97		84.910
Ag	107		5.390
Cd	111		17.508
Sb	123		197.678
Ba	135		17.541
Au-1	197	[illegible]	

|	Tl	205		148.491
|	Pb	208		20.682
|	U	238		21.213
⌈>	In-2	115	87.366	
|	Ba	137		20.238
⌈>	Au-2	197	90.515	
|	Pb	206		20.895
|	Pb	207		21.318

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA8
Sample Date/Time: Tuesday, April 13, 2010 04:17:34
Autosampler Position: 88
Dataset File: D:\Elandata\Dataset\041210M1\LXPA8.159

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			225686.986	ug/L	219065.440
	23	Na	96.339863	2.396	345142.143	ug/L	11860.377
	24	Mg	3628.211701	2.097	8315049.666	ug/L	3830.886
	27	Al	10892.882450	2.400	37363618.579	ug/L	6628.604
	39	K	2219.732315	2.990	14336826.374	ug/L	716897.807
	44	Ca	29886.967217	1.624	6633398.181	ug/L	91324.351
	57	Fe	11360.472790	3.844	2559428.554	ug/L	12818.592
	9	Be	0.669952	5.956	274.339	ug/L	48.334
	51	V	31.769676	3.926	206239.472	ug/L	-30646.865
	52	Cr	12.989032	1.874	120424.357	ug/L	30184.830
	55	Mn	250.196365	3.737	2668099.115	ug/L	4011.938
	59	Co	6.012959	3.172	53056.900	ug/L	1537.098
⌊	60	Ni	12.870070	5.114	26428.041	ug/L	860.035
⌈>	72	Ge-1			296349.875	ug/L	321356.208
	65	Cu	15.284556	3.437	34489.265	ug/L	1104.721
	66	Zn	64.289473	2.118	84840.360	ug/L	5408.412
	75	As	4.978324	3.831	6490.996	ug/L	-1011.066
⌊	82	Se	0.303002	46.469	86.122	ug/L	39.252
⌈>	115	In-1			560614.686	ug/L	628564.297
	97	Mo	0.344290	10.784	1641.444	ug/L	1099.053
	107	Ag	109.868302	1.468	979452.171	ug/L	756.028
	111	Cd	1.787837	2.942	3961.589	ug/L	402.343
	123	Sb	-0.441719	7.486	2851.646	ug/L	5839.772
⌊	135	Ba	230.039491	0.932	424516.646	ug/L	419.010
⌈>	197	Au-1			793813.039	ug/L	871438.669
	205	Tl	0.073904	38.479	13028.742	ug/L	12873.293
	208	Pb	19.081027	1.331	477971.868	ug/L	5892.860
⌊	238	U	0.599478	5.099	18446.757	ug/L	4539.435
⌈>	115	In-2			560614.686	ug/L	628564.297
⌊	137	Ba	236.441554	2.226	735245.607	ug/L	677.690
⌈>	197	Au-2			793813.039	ug/L	871438.669
	206	Pb	19.328779	2.194	120204.941	ug/L	1442.421
⌊	207	Pb	18.360997	0.317	101574.240	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	103.023	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	92.219	
	Cu	65		
	Zn	66		
	As	75		
⌊	Se	82		
⌈>	In-1	115	89.190	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
⌈>	Au-1	197	91.092	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	89.190
|	Ba	137	
⌈>	Au-2	197	91.092
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA8S
Sample Date/Time: Tuesday, April 13, 2010 04:22:05
Autosampler Position: 89
Dataset File: D:\Elandata\Dataset\041210M1\LXPA8S.160

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			228573.710	ug/L	219065.440
	23	Na	96.328429	2.994	349526.564	ug/L	11860.377
	24	Mg	4056.479545	1.333	9413904.180	ug/L	3830.886
	27	Al	15003.784990	2.293	52126072.264	ug/L	6628.604
	39	K	2626.503391	1.630	17049078.764	ug/L	716897.807
	44	Ca	28515.884517	1.078	6414817.248	ug/L	91324.351
	57	Fe	12779.904663	3.082	2914093.451	ug/L	12818.592
	9	Be	0.581660	1.664	248.005	ug/L	48.334
	51	V	35.662541	3.371	238412.429	ug/L	-30646.865
	52	Cr	14.006707	3.728	129026.391	ug/L	30184.830
	55	Mn	257.526079	2.483	2781666.079	ug/L	4011.938
	59	Co	5.942771	1.720	53131.820	ug/L	1537.098
	60	Ni	13.018460	1.728	27072.566	ug/L	860.035
>	72	Ge-1			299075.709	ug/L	321356.208
	65	Cu	14.314677	2.544	32672.989	ug/L	1104.721
	66	Zn	69.665742	1.155	92389.805	ug/L	5408.412
	75	As	8.929492	1.748	12492.833	ug/L	-1011.066
	82	Se	1.107194	22.905	219.778	ug/L	39.252
>	115	In-1			557403.948	ug/L	628564.297
	97	Mo	0.356703	12.008	1656.113	ug/L	1099.053
	107	Ag	84.587609	2.309	749708.733	ug/L	756.028
	111	Cd	1.835545	4.837	4035.611	ug/L	402.343
	123	Sb	3.274703	3.577	22548.375	ug/L	5839.772
	135	Ba	246.490697	2.119	452218.510	ug/L	419.010
>	197	Au-1			801131.641	ug/L	871438.669
	205	Tl	4.357864	5.790	89365.196	ug/L	12873.293
	208	Pb	24.595052	2.429	620189.947	ug/L	5892.860
	238	U	0.516333	4.062	16618.831	ug/L	4539.435
>	115	In-2			557403.948	ug/L	628564.297
	137	Ba	249.379623	1.735	770918.120	ug/L	677.690
>	197	Au-2			801131.641	ug/L	871438.669
	206	Pb	25.551233	2.869	159933.116	ug/L	1442.421
	207	Pb	24.118278	2.996	134219.013	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.340	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	93.087	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.679	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.932	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.679
|	Ba	137	
⌈>	Au-2	197	91.932
!	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPA9
Sample Date/Time: Tuesday, April 13, 2010 04:26:36
Autosampler Position: 90
Dataset File: D:\Elandata\Dataset\041210M1\LXPA9.161

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			222105.644	ug/L	219065.440
	23	Na	83.548410	3.486	296159.231	ug/L	11860.377
	24	Mg	3304.990516	0.884	7453930.675	ug/L	3830.886
	27	Al	10658.800073	0.970	35983979.857	ug/L	6628.604
	39	K	2176.221114	1.665	13849028.960	ug/L	716897.807
	44	Ca	30841.103188	0.543	6734919.240	ug/L	91324.351
	57	Fe	11359.122205	2.231	2518517.131	ug/L	12818.592
	9	Be	0.571913	5.120	237.671	ug/L	48.334
	51	V	32.125052	4.985	205613.530	ug/L	-30646.865
	52	Cr	12.521283	0.283	115358.408	ug/L	30184.830
	55	Mn	254.831591	3.236	2675013.154	ug/L	4011.938
	59	Co	6.053853	3.224	52566.103	ug/L	1537.098
	60	Ni	12.785654	1.941	25856.311	ug/L	860.035
>	72	Ge-1			293432.002	ug/L	321356.208
	65	Cu	14.251195	1.113	31924.287	ug/L	1104.721
	66	Zn	56.115592	0.893	73973.446	ug/L	5408.412
	75	As	5.028015	3.145	6498.235	ug/L	-1011.066
	82	Se	0.150879	336.094	60.129	ug/L	39.252
>	115	In-1			557301.468	ug/L	628564.297
	97	Mo	0.139479	16.363	1240.400	ug/L	1099.053
	107	Ag	89.041036	2.466	789038.961	ug/L	756.028
	111	Cd	1.094524	0.771	2549.920	ug/L	402.343
	123	Sb	-0.645152	0.989	1755.160	ug/L	5839.772
	135	Ba	226.267961	2.796	415074.984	ug/L	419.010
>	197	Au-1			792334.110	ug/L	871438.669
	205	Tl	-0.104519	35.252	9868.184	ug/L	12873.293
	208	Pb	15.461436	1.625	387652.211	ug/L	5892.860
	238	U	0.440445	4.072	14629.638	ug/L	4539.435
>	115	In-2			557301.468	ug/L	628564.297
	137	Ba	230.948761	1.866	713891.948	ug/L	677.690
>	197	Au-2			792334.110	ug/L	871438.669
	206	Pb	15.906698	2.641	98973.744	ug/L	1442.421
	207	Pb	15.171118	0.533	83993.368	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	101.388	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	91.311	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.663	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.923	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.663
|	Ba	137	
⌈>	Au-2	197	90.923
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCA
Sample Date/Time: Tuesday, April 13, 2010 04:31:08
Autosampler Position: 91
Dataset File: D:\Elandata\Dataset\041210M1\LXPCA.162

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			221231.061	ug/L	219065.440
	23	Na	94.787236	1.459	333069.882	ug/L	11860.377
	24	Mg	3756.783177	3.834	8435850.891	ug/L	3830.886
	27	Al	10920.477367	3.016	36714175.550	ug/L	6628.604
	39	K	2258.894874	2.828	14289172.866	ug/L	716897.807
	44	Ca	33307.443527	1.828	7235772.690	ug/L	91324.351
	57	Fe	11535.308720	3.304	2546159.918	ug/L	12818.592
	9	Be	0.578593	13.747	238.671	ug/L	48.334
	51	V	32.927165	2.376	210669.207	ug/L	-30646.865
	52	Cr	12.615924	6.402	115458.784	ug/L	30184.830
	55	Mn	279.913466	2.860	2925332.308	ug/L	4011.938
	59	Co	6.307896	2.452	54481.939	ug/L	1537.098
	60	Ni	12.737182	4.213	25658.650	ug/L	860.035
>	72	Ge-1			298358.127	ug/L	321356.208
	65	Cu	14.926408	2.928	33953.338	ug/L	1104.721
	66	Zn	128.286078	0.543	165497.163	ug/L	5408.412
	75	As	5.194353	2.765	6858.218	ug/L	-1011.066
	82	Se	-0.080613	25.016	23.123	ug/L	39.252
>	115	In-1			555317.204	ug/L	628564.297
	97	Mo	0.032514	11.727	1032.714	ug/L	1099.053
	107	Ag	50.841962	2.386	449403.541	ug/L	756.028
	111	Cd	0.697977	4.120	1749.792	ug/L	402.343
	123	Sb	-0.605327	1.906	1960.316	ug/L	5839.772
	135	Ba	280.180600	0.914	512164.898	ug/L	419.010
>	197	Au-1			794427.624	ug/L	871438.669
	205	Tl	-0.225627	5.351	7756.851	ug/L	12873.293
	208	Pb	17.532797	1.215	440047.275	ug/L	5892.860
	238	U	0.520298	1.000	16577.112	ug/L	4539.435
>	115	In-2			555317.204	ug/L	628564.297
	137	Ba	283.752280	0.962	873930.152	ug/L	677.690
>	197	Au-2			794427.624	ug/L	871438.669
	206	Pb	18.454924	3.206	114934.288	ug/L	1442.421
	207	Pb	16.882779	1.997	93581.236	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.989	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.843	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.347	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.163	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.347
	Ba	137	
>	Au-2	197	91.163
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCC
Sample Date/Time: Tuesday, April 13, 2010 04:35:40
Autosampler Position: 92
Dataset File: D:\Elandata\Dataset\041210M1\LXPCC.163

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			215584.680	ug/L	219065.440
	23	Na	150.543343	1.165	508678.612	ug/L	11860.377
	24	Mg	3914.636746	0.817	8569251.661	ug/L	3830.886
	27	Al	11384.179933	0.963	37310239.700	ug/L	6628.604
	39	K	2329.672657	1.216	14342983.538	ug/L	716897.807
	44	Ca	31346.568660	1.215	6643474.069	ug/L	91324.351
	57	Fe	11971.514730	1.106	2575984.625	ug/L	12818.592
	9	Be	0.626220	11.073	248.005	ug/L	48.334
	51	V	31.444350	1.706	194826.222	ug/L	-30646.865
	52	Cr	11.404760	1.902	104620.074	ug/L	30184.830
	55	Mn	287.303110	0.902	2927598.700	ug/L	4011.938
	59	Co	6.628197	1.678	55720.023	ug/L	1537.098
	60	Ni	13.526584	3.687	26511.886	ug/L	860.035
>	72	Ge-1			289729.618	ug/L	321356.208
	65	Cu	15.158731	1.344	33467.503	ug/L	1104.721
	66	Zn	118.648356	1.376	149015.279	ug/L	5408.412
	75	As	4.859469	1.746	6172.082	ug/L	-1011.066
	82	Se	-0.166827	281.179	8.545	ug/L	39.252
>	115	In-1			548661.403	ug/L	628564.297
	97	Mo	-0.015448	105.038	930.040	ug/L	1099.053
	107	Ag	26.306836	1.110	229987.584	ug/L	756.028
	111	Cd	0.603918	1.448	1542.765	ug/L	402.343
	123	Sb	-0.664801	1.875	1624.931	ug/L	5839.772
	135	Ba	323.161184	1.893	583462.101	ug/L	419.010
>	197	Au-1			795371.386	ug/L	871438.669
	205	Tl	-0.208609	3.083	8066.358	ug/L	12873.293
	208	Pb	16.221537	2.920	407999.411	ug/L	5892.860
	238	U	0.504086	2.135	16208.019	ug/L	4539.435
>	115	In-2			548661.403	ug/L	628564.297
	137	Ba	328.151312	2.964	998218.915	ug/L	677.690
>	197	Au-2			795371.386	ug/L	871438.669
	206	Pb	16.782572	1.339	104760.115	ug/L	1442.421
	207	Pb	15.643646	2.354	86900.788	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.411	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	90.158	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.288	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.271	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.288
	Ba	137	
>	Au-2	197	91.271
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCD
Sample Date/Time: Tuesday, April 13, 2010 04:40:12
Autosampler Position: 93
Dataset File: D:\Elandata\Dataset\041210M1\LXPCD.164

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			219139.945	ug/L	219065.440
	23	Na	143.534835	2.300	493472.697	ug/L	11860.377
	24	Mg	3857.148497	1.920	8580822.874	ug/L	3830.886
	27	Al	11394.015511	2.597	37941889.770	ug/L	6628.604
	39	K	2272.165616	2.054	14233825.880	ug/L	716897.807
	44	Ca	34843.555426	2.687	7492809.597	ug/L	91324.351
	57	Fe	12584.973261	2.394	2751588.552	ug/L	12818.592
	9	Be	0.635191	6.627	255.005	ug/L	48.334
	51	V	31.868534	2.971	200990.101	ug/L	-30646.865
	52	Cr	12.517463	2.739	113772.450	ug/L	30184.830
	55	Mn	299.619995	1.090	3102517.271	ug/L	4011.938
	59	Co	6.492880	1.487	55513.551	ug/L	1537.098
	60	Ni	13.298330	1.006	26498.491	ug/L	860.035
>	72	Ge-1			292354.270	ug/L	321356.208
	65	Cu	17.319775	2.183	38443.073	ug/L	1104.721
	66	Zn	202.696623	1.063	253342.204	ug/L	5408.412
	75	As	5.503403	6.437	7180.524	ug/L	-1011.066
	82	Se	-0.033759	362.008	30.034	ug/L	39.252
>	115	In-1			550807.861	ug/L	628564.297
	97	Mo	0.010646	222.065	982.710	ug/L	1099.053
	107	Ag	96.195971	4.843	842010.998	ug/L	756.028
	111	Cd	1.520922	2.172	3365.097	ug/L	402.343
	123	Sb	-0.676078	0.830	1572.803	ug/L	5839.772
	135	Ba	307.582495	2.297	557447.551	ug/L	419.010
>	197	Au-1			791268.266	ug/L	871438.669
	205	Tl	-0.252613	1.967	7252.247	ug/L	12873.293
	208	Pb	17.021113	0.783	425666.415	ug/L	5892.860
	238	U	0.487293	4.085	15727.819	ug/L	4539.435
>	115	In-2			550807.861	ug/L	628564.297
	137	Ba	312.786204	3.562	955045.981	ug/L	677.690
>	197	Au-2			791268.266	ug/L	871438.669
	206	Pb	17.352202	0.592	107718.050	ug/L	1442.421
	207	Pb	16.243352	1.461	89728.579	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.034	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	90.975	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.630	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.800	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.630
	Ba	137	
>	Au-2	197	90.808
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXPCE
Sample Date/Time: Tuesday, April 13, 2010 04:44:44
Autosampler Position: 94
Dataset File: D:\Elandata\Dataset\041210M1\LXPCE.165

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			215357.491	ug/L	219065.440
	23	Na	85.061945	3.921	292015.066	ug/L	11860.377
	24	Mg	3200.962805	3.658	6995579.900	ug/L	3830.886
	27	Al	9260.952055	3.017	30300954.150	ug/L	6628.604
	39	K	1887.684064	3.911	11735220.317	ug/L	716897.807
	44	Ca	31879.322973	1.919	6744887.386	ug/L	91324.351
	57	Fe	9954.943356	1.639	2141414.053	ug/L	12818.592
	9	Be	0.508825	11.037	210.004	ug/L	48.334
	51	V	27.718106	2.147	168013.168	ug/L	-30646.865
	52	Cr	9.163229	5.224	89761.730	ug/L	30184.830
	55	Mn	222.681052	4.110	2265878.734	ug/L	4011.938
	59	Co	5.414801	3.552	45725.524	ug/L	1537.098
[	60	Ni	10.906287	3.645	21496.712	ug/L	860.035
[>	72	Ge-1			299555.258	ug/L	321356.208
	65	Cu	10.592982	2.158	24485.879	ug/L	1104.721
	66	Zn	53.417693	2.147	72122.342	ug/L	5408.412
	75	As	4.118261	5.642	5265.239	ug/L	-1011.066
[	82	Se	0.082568	303.895	50.561	ug/L	39.252
[>	115	In-1			556967.083	ug/L	628564.297
	97	Mo	-0.093893	23.719	794.363	ug/L	1099.053
	107	Ag	17.522507	3.532	155704.556	ug/L	756.028
	111	Cd	0.285034	5.213	927.039	ug/L	402.343
	123	Sb	-0.740569	1.705	1247.841	ug/L	5839.772
[	135	Ba	208.013251	2.882	381329.695	ug/L	419.010
[>	197	Au-1			793635.909	ug/L	871438.669
	205	Tl	-0.294344	1.138	6538.228	ug/L	12873.293
	208	Pb	12.895457	1.427	324731.349	ug/L	5892.860
[	238	U	0.356708	3.363	12652.729	ug/L	4539.435
[>	115	In-2			556967.083	ug/L	628564.297
[	137	Ba	211.394535	3.656	652918.847	ug/L	677.690
[>	197	Au-2			793635.909	ug/L	871438.669
	206	Pb	13.005508	2.439	81297.537	ug/L	1442.421
[	207	Pb	12.547940	1.870	69803.174	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	98.307	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
[>	Ge-1	72	93.216	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
[>	In-1	115	88.609	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
[>	Au-1	197	91.072	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.609
	Ba	137	
>	Au-2	197	91.072
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTB
Sample Date/Time: Tuesday, April 13, 2010 04:49:16
Autosampler Position: 95
Dataset File: D:\Elandata\Dataset\041210M1\LXLXTB.166

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			210995.157	ug/L	219065.440
|	23	Na	8.755499	7.999	39651.021	ug/L	11860.377
|	24	Mg	0.185369	73.676	4079.957	ug/L	3830.886
|	27	Al	3.044124	14.676	16113.599	ug/L	6628.604
|	39	K	11.243374	57.712	753857.616	ug/L	716897.807
|	44	Ca	18.028061	95.184	91549.691	ug/L	91324.351
|	57	Fe	20.288193	43.091	16563.795	ug/L	12818.592
|	9	Be	-0.132591	1.993	5.000	ug/L	48.334
|	51	V	-5.135002	99.556	-64422.594	ug/L	-30646.865
|	52	Cr	1.956340	12.489	41621.670	ug/L	30184.830
|	55	Mn	0.025737	94.828	4113.967	ug/L	4011.938
|	59	Co	-0.166182	2.018	149.336	ug/L	1537.098
⌊	60	Ni	-0.105303	25.907	631.687	ug/L	860.035
⌈>	72	Ge-1			311308.260	ug/L	321356.208
|	65	Cu	11.625159	4.366	27822.705	ug/L	1104.721
|	66	Zn	15.489803	2.701	25454.248	ug/L	5408.412
|	75	As	-1.621494	45.090	-3514.240	ug/L	-1011.066
⌊	82	Se	0.269087	102.750	84.243	ug/L	39.252
⌈>	115	In-1			586901.877	ug/L	628564.297
|	97	Mo	-0.343612	1.783	336.007	ug/L	1099.053
|	107	Ag	-0.004995	217.976	659.022	ug/L	756.028
|	111	Cd	-0.149558	2.784	60.001	ug/L	402.343
|	123	Sb	-0.304227	5.870	3751.467	ug/L	5839.772
⌊	135	Ba	-0.102565	6.916	193.003	ug/L	419.010
⌈>	197	Au-1			789992.629	ug/L	871438.669
|	205	Tl	-0.262656	19.349	7057.496	ug/L	12873.293
|	208	Pb	0.930156	4.189	28265.544	ug/L	5892.860
⌊	238	U	-0.160708	1.084	294.339	ug/L	4539.435
⌈>	115	In-2			586901.877	ug/L	628564.297
⌊	137	Ba	-0.081145	11.816	368.342	ug/L	677.690
⌈>	197	Au-2			789992.629	ug/L	871438.669
|	206	Pb	0.950044	2.494	7122.847	ug/L	1442.421
⌊	207	Pb	0.909612	6.369	6212.747	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	96.316	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	96.873	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	93.372	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
⌊	Ba	135		
⌈>	Au-1	197	90.654	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	93.372
L	Ba	137	
⌈>	Au-2	197	90.654
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTC
Sample Date/Time: Tuesday, April 13, 2010 04:53:47
Autosampler Position: 96
Dataset File: D:\Elandata\Dataset\041210M1\LXLXTC.167

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			210774.325	ug/L	219065.440
	23	Na	9696.229231	3.934	31298020.405	ug/L	11860.377
	24	Mg	9653.010740	3.452	20645829.174	ug/L	3830.886
	27	Al	9835.188317	5.205	31491257.532	ug/L	6628.604
	39	K	10212.150027	3.819	59107245.950	ug/L	716897.807
	44	Ca	9896.259175	3.286	2109635.611	ug/L	91324.351
	57	Fe	10143.231459	3.299	2135095.839	ug/L	12818.592
	9	Be	1031.290967	2.601	322927.713	ug/L	48.334
	51	V	990.667397	3.146	6897252.397	ug/L	-30646.865
	52	Cr	1000.159682	3.009	6451471.866	ug/L	30184.830
	55	Mn	1004.252654	1.275	9992925.305	ug/L	4011.938
	59	Co	1013.339403	2.709	8102336.197	ug/L	1537.098
	60	Ni	997.242718	2.381	1849531.638	ug/L	860.035
>	72	Ge-1			304868.221	ug/L	321356.208
	65	Cu	937.341910	0.510	2113725.348	ug/L	1104.721
	66	Zn	941.586751	2.355	1208809.474	ug/L	5408.412
	75	As	959.751865	1.588	1471185.422	ug/L	-1011.066
	82	Se	951.434904	1.932	160565.452	ug/L	39.252
>	115	In-1			573135.965	ug/L	628564.297
	97	Mo	1015.879368	0.921	1994346.209	ug/L	1099.053
	107	Ag	99.792454	2.225	909506.398	ug/L	756.028
	111	Cd	954.276686	1.004	1966949.162	ug/L	402.343
	123	Sb	496.994915	1.341	2716628.621	ug/L	5839.772
	135	Ba	986.671686	2.258	1860408.037	ug/L	419.010
>	197	Au-1			769567.263	ug/L	871438.669
	205	Tl	1017.283514	1.483	17388650.133	ug/L	12873.293
	208	Pb	1020.588135	1.499	24514920.136	ug/L	5892.860
	238	U	1077.703243	0.998	24960225.306	ug/L	4539.435
>	115	In-2			573135.965	ug/L	628564.297
	137	Ba	993.657881	2.646	3157105.031	ug/L	677.690
>	197	Au-2			769567.263	ug/L	871438.669
	206	Pb	991.491969	0.825	5914341.365	ug/L	1442.421
	207	Pb	1049.689320	0.808	5560186.439	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.215	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.869	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.182	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	88.318	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	91.182
L	Ba	137	
⌈>	Au-2	197	88.310
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Cr	52	H
Mn	55	H
Co	59	H
Mo	97	H
Tl	205	H
Pb	208	H
U	238	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EE
Sample Date/Time: Tuesday, April 13, 2010 04:58:18
Autosampler Position: 97
Dataset File: D:\Elandata\Dataset\041210M1\LW7EE.168

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213482.813	ug/L	219065.440
	23	Na	67.377776	0.783	231844.375	ug/L	11860.377
	24	Mg	37.454981	4.257	84846.135	ug/L	3830.886
	27	Al	242.566626	0.930	793444.499	ug/L	6628.604
	39	K	94.484348	3.880	1246159.414	ug/L	716897.807
	44	Ca	177.118457	5.954	125633.605	ug/L	91324.351
	57	Fe	842.703711	0.891	191170.396	ug/L	12818.592
	9	Be	-0.075478	52.132	23.000	ug/L	48.334
	51	V	-3.621069	79.963	-55648.356	ug/L	-30646.865
	52	Cr	6.120950	2.554	69252.940	ug/L	30184.830
	55	Mn	12.568666	3.360	130496.691	ug/L	4011.938
	59	Co	0.038774	69.655	1809.133	ug/L	1537.098
	60	Ni	1.923757	0.513	4451.405	ug/L	860.035
>	72	Ge-1			305572.900	ug/L	321356.208
	65	Cu	2.695655	0.892	7140.856	ug/L	1104.721
	66	Zn	52.474539	1.656	72357.171	ug/L	5408.412
	75	As	-0.269271	261.569	-1387.694	ug/L	-1011.066
	82	Se	0.234586	207.287	76.017	ug/L	39.252
>	115	In-1			588353.439	ug/L	628564.297
	97	Mo	2.360621	14.825	5782.906	ug/L	1099.053
	107	Ag	-0.011091	117.899	604.019	ug/L	756.028
	111	Cd	-0.064982	41.331	239.004	ug/L	402.343
	123	Sb	-0.496040	1.804	2688.272	ug/L	5839.772
	135	Ba	3.324809	1.955	6826.032	ug/L	419.010
>	197	Au-1			817290.754	ug/L	871438.669
	205	Tl	1.361967	39.872	36744.398	ug/L	12873.293
	208	Pb	0.270540	21.942	12420.602	ug/L	5892.860
	238	U	-0.017305	352.277	3826.268	ug/L	4539.435
>	115	In-2			588353.439	ug/L	628564.297
	137	Ba	3.458230	1.066	11911.417	ug/L	677.690
>	197	Au-2			817290.754	ug/L	871438.669
	206	Pb	0.267516	17.165	3046.024	ug/L	1442.421
	207	Pb	0.256472	25.221	2755.296	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	97.452	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.089	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	93.603	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	93.786	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	93.603
|	Ba	137	
⌈>	Au-2	197	93.786
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 05:02:50
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.169

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			214073.865	ug/L	219065.440
|	23	Na	3652.629918	1.519	11986512.382	ug/L	11860.377
|	24	Mg	7391.711043	2.873	16059101.719	ug/L	3830.886
|	27	Al	3754.248356	1.499	12218848.156	ug/L	6628.604
|	39	K	3854.553369	1.204	23108696.357	ug/L	716897.807
|	44	Ca	7905.995091	2.081	1729991.744	ug/L	91324.351
|	57	Fe	7809.078214	2.070	1672592.081	ug/L	12818.592
|	9	Be	992.896319	2.453	315827.075	ug/L	48.334
|	51	V	901.824874	3.143	6374560.170	ug/L	-30646.865
|	52	Cr	940.564052	1.974	6165740.443	ug/L	30184.830
|	55	Mn	935.169387	0.808	9451810.044	ug/L	4011.938
|	59	Co	953.987262	1.494	7750342.575	ug/L	1537.098
⌊	60	Ni	938.047188	0.474	1767475.682	ug/L	860.035
⌈>	72	Ge-1			291077.627	ug/L	321356.208
|	65	Cu	955.961051	2.192	2058306.073	ug/L	1104.721
|	66	Zn	973.076602	2.443	1192235.622	ug/L	5408.412
|	75	As	990.858024	0.398	1450100.031	ug/L	-1011.066
⌊	82	Se	996.698507	2.734	160560.984	ug/L	39.252
⌈>	115	In-1			548703.513	ug/L	628564.297
|	97	Mo	1020.122319	1.927	1916609.475	ug/L	1099.053
|	107	Ag	195.179863	2.360	1701484.627	ug/L	756.028
|	111	Cd	989.925346	2.988	1952178.248	ug/L	402.343
|	123	Sb	511.550460	2.178	2675590.845	ug/L	5839.772
⌊	135	Ba	984.259316	3.838	1775270.831	ug/L	419.010
⌈>	197	Au-1			798145.645	ug/L	871438.669
|	205	Tl	972.140935	1.345	17234461.584	ug/L	12873.293
|	208	Pb	970.129776	4.083	24154934.680	ug/L	5892.860
⌊	238	U	968.634034	1.314	23264895.490	ug/L	4539.435
⌈>	115	In-2			548703.513	ug/L	628564.297
⌊	137	Ba	1009.806258	4.054	3069168.860	ug/L	677.690
⌈>	197	Au-2			798145.645	ug/L	871438.669
|	206	Pb	974.812920	4.137	6027420.914	ug/L	1442.421
⌊	207	Pb	979.372833	3.808	5377628.290	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	97.721	
|	Na	23		91.316
|	Mg	24		92.396
|	Al	27		93.856
|	K	39		96.364
|	Ca	44		98.825
|	Fe	57		97.613
|	Be	9		99.280
|	V	51		90.182
|	Cr	52		94.058
|	Mn	55		93.517
|	Co	59		95.399
⌊	Ni	60		93.805
⌈>	Ge-1	72	90.578	
|	Cu	65		95.596
|	Zn	66		97.308
|	As	75		99.086
⌊	Se	82		99.670
⌈>	In-1	115	87.295	
|	Mo	97		102.012
|	Ag	107		97.590
|	Cd	111		98.993
|	Sb	123		102.310
⌊	Ba	135		98.426
⌈>	Au-1	197	94.599	

	Tl	205		97.214
	Pb	208		97.013
	U	238		96.863
>	In-2	115	87.295	
	Ba	137		100.961
>	Au-2	197	91.589	
	Pb	206		97.481
	Pb	207		97.937

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 05:07:53
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.170

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			198341.298	ug/L	219065.440
|	23	Na	1.795748	14.983	16198.698	ug/L	11860.377
|	24	Mg	3.534354	20.917	10599.769	ug/L	3830.886
|	27	Al	2.124477	17.809	12417.895	ug/L	6628.604
|	39	K	15.100839	3.839	730364.621	ug/L	716897.807
|	44	Ca	3.237978	140.436	83300.347	ug/L	91324.351
|	57	Fe	7.684052	13.622	13118.563	ug/L	12818.592
|	9	Be	0.395645	22.281	160.669	ug/L	48.334
|	51	V	-0.248673	865.046	-29219.399	ug/L	-30646.865
|	52	Cr	0.060914	202.564	27705.484	ug/L	30184.830
|	55	Mn	0.381863	24.326	7216.584	ug/L	4011.938
|	59	Co	0.381129	19.648	4264.021	ug/L	1537.098
⌊	60	Ni	0.318146	23.652	1335.076	ug/L	860.035
⌈>	72	Ge-1			290639.417	ug/L	321356.208
|	65	Cu	0.379495	25.586	1815.135	ug/L	1104.721
|	66	Zn	0.500647	16.434	5502.115	ug/L	5408.412
|	75	As	0.753200	24.107	188.541	ug/L	-1011.066
⌊	82	Se	0.614372	108.303	133.887	ug/L	39.252
⌈>	115	In-1			559950.371	ug/L	628564.297
|	97	Mo	1.095020	37.151	3066.038	ug/L	1099.053
|	107	Ag	0.079984	33.762	1382.082	ug/L	756.028
|	111	Cd	0.341773	26.616	1045.383	ug/L	402.343
|	123	Sb	2.157276	41.163	16626.457	ug/L	5839.772
⌊	135	Ba	0.357414	34.986	1029.382	ug/L	419.010
⌈>	197	Au-1			809576.132	ug/L	871438.669
|	205	Tl	1.703884	33.188	42541.621	ug/L	12873.293
|	208	Pb	0.406170	25.998	15728.268	ug/L	5892.860
⌊	238	U	0.428789	20.132	14656.424	ug/L	4539.435
⌈>	115	In-2			559950.371	ug/L	628564.297
⌊	137	Ba	0.365374	30.052	1735.459	ug/L	677.690
⌈>	197	Au-2			809576.132	ug/L	871438.669
|	206	Pb	0.420485	25.302	3976.270	ug/L	1442.421
⌊	207	Pb	0.386989	24.345	3456.125	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	90.540	
|	Na	23		178.575
|	Mg	24		353.435
|	Al	27		212.448
|	K	39		1510.884
|	Ca	44		323.798
|	Fe	57		768.405
|	Be	9		39.564
|	V	51		-24.867
|	Cr	52		6.091
|	Mn	55		38.186
|	Co	59		38.113
⌊	Ni	60		31.815
⌈>	Ge-1	72	90.442	
|	Cu	65		37.949
|	Zn	66		50.065
|	As	75		75.320
⌊	Se	82		61.437
⌈>	In-1	115	89.084	
|	Mo	97		109.502
|	Ag	107		7.988
|	Cd	111		34.177
|	Sb	123		215.728
⌊	Ba	135		35.741
⌈>	Au-1	197	92.904	

	Tl	205		170.388
	Pb	208		40.617
	U	238		42.879
>	In-2	115	89.084	
	Ba	137		36.537
>	Au-2	197	92.901	
	Pb	206		42.048
	Pb	207		38.699

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mo	97	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EEV
Sample Date/Time: Tuesday, April 13, 2010 05:12:54
Autosampler Position: 98
Dataset File: D:\Elandata\Dataset\041210M1\LW7EEV.171

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			209940.603	ug/L	219065.440
	23	Na	14.146232	3.956	56827.044	ug/L	11860.377
	24	Mg	7.125771	1.937	18853.291	ug/L	3830.886
	27	Al	48.787597	3.580	161940.068	ug/L	6628.604
	39	K	23.121837	19.165	818500.398	ug/L	716897.807
	44	Ca	10.205587	119.973	89561.769	ug/L	91324.351
	57	Fe	158.442736	5.996	45298.377	ug/L	12818.592
	9	Be	-0.106985	13.025	13.000	ug/L	48.334
	51	V	0.789377	163.758	-24001.956	ug/L	-30646.865
	52	Cr	0.603171	47.560	32762.890	ug/L	30184.830
	55	Mn	2.335106	1.862	26976.717	ug/L	4011.938
	59	Co	-0.101314	15.019	667.689	ug/L	1537.098
	60	Ni	0.222447	8.396	1235.066	ug/L	860.035
>	72	Ge-1			299608.580	ug/L	321356.208
	65	Cu	0.446844	2.813	2019.496	ug/L	1104.721
	66	Zn	11.760202	3.779	19812.602	ug/L	5408.412
	75	As	0.405035	37.896	-331.176	ug/L	-1011.066
	82	Se	0.154279	252.755	62.529	ug/L	39.252
>	115	In-1			570919.398	ug/L	628564.297
	97	Mo	0.297248	25.935	1579.770	ug/L	1099.053
	107	Ag	-0.021030	8.459	496.014	ug/L	756.028
	111	Cd	-0.110862	14.924	138.002	ug/L	402.343
	123	Sb	0.058614	272.598	5625.029	ug/L	5839.772
	135	Ba	0.583586	1.577	1476.424	ug/L	419.010
>	197	Au-1			826611.694	ug/L	871438.669
	205	Tl	0.274277	52.854	17241.734	ug/L	12873.293
	208	Pb	-0.054648	35.670	4179.279	ug/L	5892.860
	238	U	-0.102161	19.594	1764.132	ug/L	4539.435
>	115	In-2			570919.398	ug/L	628564.297
	137	Ba	0.597706	8.940	2503.911	ug/L	677.690
>	197	Au-2			826611.694	ug/L	871438.669
	206	Pb	-0.051547	43.507	1037.715	ug/L	1442.421
	207	Pb	-0.062108	28.599	975.377	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.835	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	93.233	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.829	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	94.858	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	90.829
	Ba	137	
>	Au-2	197	94.856
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EES
Sample Date/Time: Tuesday, April 13, 2010 05:17:26
Autosampler Position: 99
Dataset File: D:\Elandata\Dataset\041210M1\LW7EES.172

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			210699.587	ug/L	219065.440
	23	Na	9761.224611	4.547	31473211.247	ug/L	11860.377
	24	Mg	9525.424903	3.710	20351666.742	ug/L	3830.886
	27	Al	9895.433226	3.982	31660518.764	ug/L	6628.604
	39	K	10183.204645	4.437	58882396.340	ug/L	716897.807
	44	Ca	9758.287264	5.461	2078298.601	ug/L	91324.351
	57	Fe	10772.045007	2.630	2265301.784	ug/L	12818.592
	9	Be	1018.417165	4.767	318437.942	ug/L	48.334
	51	V	951.617655	3.899	6616069.113	ug/L	-30646.865
	52	Cr	964.489651	4.148	6214730.734	ug/L	30184.830
	55	Mn	974.145450	5.145	9676341.819	ug/L	4011.938
	59	Co	984.945097	5.614	7862482.506	ug/L	1537.098
	60	Ni	950.499398	4.735	1760289.255	ug/L	860.035
>	72	Ge-1			305734.793	ug/L	321356.208
	65	Cu	899.811403	2.764	2034966.848	ug/L	1104.721
	66	Zn	977.385763	0.893	1257995.699	ug/L	5408.412
	75	As	919.640777	1.472	1413552.952	ug/L	-1011.066
	82	Se	931.474668	3.304	157619.132	ug/L	39.252
>	115	In-1			562623.118	ug/L	628564.297
	97	Mo	1000.539310	1.534	1927763.619	ug/L	1099.053
	107	Ag	100.335424	3.469	897316.143	ug/L	756.028
	111	Cd	943.572703	1.468	1908999.452	ug/L	402.343
	123	Sb	488.769080	1.872	2622071.924	ug/L	5839.772
	135	Ba	986.935591	2.851	1826170.308	ug/L	419.010
>	197	Au-1			782769.223	ug/L	871438.669
	205	Tl	995.710662	1.010	17314316.222	ug/L	12873.293
	208	Pb	973.244602	0.884	23778037.757	ug/L	5892.860
	238	U	1045.191353	1.209	24621851.522	ug/L	4539.435
>	115	In-2			562623.118	ug/L	628564.297
	137	Ba	996.998631	2.356	3108705.538	ug/L	677.690
>	197	Au-2			782769.223	ug/L	871438.669
	206	Pb	948.150843	1.946	5751950.017	ug/L	1442.421
	207	Pb	1015.090517	2.224	5468440.293	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.181	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.139	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	89.509	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	89.509
	Ba	137	
>	Au-2	197	89.825
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Mo	97	H
U	238	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EED
Sample Date/Time: Tuesday, April 13, 2010 05:21:57
Autosampler Position: 100
Dataset File: D:\Elandata\Dataset\041210M1\LW7EED.173

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			205215.499	ug/L	219065.440
23	Na	9882.728226	2.451	31064040.689	ug/L	11860.377
24	Mg	9821.488107	1.764	20456799.849	ug/L	3830.886
27	Al	10600.831858	2.187	33063425.202	ug/L	6628.604
39	K	10434.776584	1.776	58806938.335	ug/L	716897.807
44	Ca	10019.772364	0.920	2079204.433	ug/L	91324.351
57	Fe	11185.399261	1.138	2291781.470	ug/L	12818.592
9	Be	1035.176401	3.562	315562.307	ug/L	48.334
51	V	1002.390235	1.643	6798484.228	ug/L	-30646.865
52	Cr	1008.189595	2.478	6331804.472	ug/L	30184.830
55	Mn	1029.879909	0.762	9979870.361	ug/L	4011.938
59	Co	1039.650444	1.946	8097347.559	ug/L	1537.098
60	Ni	1002.297952	1.572	1810473.246	ug/L	860.035
72	Ge-1			303528.689	ug/L	321356.208
65	Cu	917.008974	2.569	2058042.825	ug/L	1104.721
66	Zn	985.014420	3.006	1258063.242	ug/L	5408.412
75	As	952.382230	0.201	1453424.211	ug/L	-1011.066
82	Se	920.834544	1.428	154685.689	ug/L	39.252
115	In-1			555045.237	ug/L	628564.297
97	Mo	1056.871973	2.775	2008759.544	ug/L	1099.053
107	Ag	104.365666	2.826	921046.459	ug/L	756.028
111	Cd	979.814110	1.968	1955864.535	ug/L	402.343
123	Sb	509.092851	2.412	2694526.463	ug/L	5839.772
135	Ba	1026.116972	1.943	1873613.184	ug/L	419.010
197	Au-1			787393.666	ug/L	871438.669
205	Tl	992.373592	1.596	17356119.401	ug/L	12873.293
208	Pb	981.450247	1.664	24118944.028	ug/L	5892.860
238	U	1039.051153	1.205	24622562.666	ug/L	4539.435
115	In-2			555045.237	ug/L	628564.297
137	Ba	1050.015711	0.873	3230758.839	ug/L	677.690
197	Au-2			787393.666	ug/L	871438.669
206	Pb	970.462754	3.342	5922105.863	ug/L	1442.421
207	Pb	1014.633139	1.666	5498684.676	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	93.678	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	94.452	
Cu	65		
Zn	66		
As	75		
Se	82		
In-1	115	88.304	
Mo	97		
Ag	107		
Cd	111		
Sb	123		
Ba	135		
Au-1	197	90.356	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	88.304
L	Ba	137	
⌈>	Au-2	197	90.356
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Mo	97	H
Sb	123	H
Ba	135	H
U	238	H
Ba	137	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EG
Sample Date/Time: Tuesday, April 13, 2010 05:26:28
Autosampler Position: 101
Dataset File: D:\Elandata\Dataset\041210M1\LW7EG.174

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			210820.558	ug/L	219065.440
	23	Na	12.785338	9.076	52623.043	ug/L	11860.377
	24	Mg	0.583305	89.897	4912.582	ug/L	3830.886
	27	Al	2.676945	22.561	14917.984	ug/L	6628.604
	39	K	12.574399	24.617	761562.264	ug/L	716897.807
	44	Ca	20.541702	68.842	92028.394	ug/L	91324.351
	57	Fe	9.656801	40.226	14341.824	ug/L	12818.592
	9	Be	-0.076341	55.381	22.334	ug/L	48.334
	51	V	-4.618886	91.730	-61234.113	ug/L	-30646.865
	52	Cr	2.378768	3.639	44323.115	ug/L	30184.830
	55	Mn	0.054928	81.929	4399.057	ug/L	4011.938
	59	Co	-0.119070	36.181	520.017	ug/L	1537.098
	60	Ni	-0.046632	65.896	740.027	ug/L	860.035
>	72	Ge-1			306009.178	ug/L	321356.208
	65	Cu	0.083160	95.262	1238.400	ug/L	1104.721
	66	Zn	2.294821	4.055	8093.707	ug/L	5408.412
	75	As	-0.562083	147.876	-1829.514	ug/L	-1011.066
	82	Se	0.424530	47.642	109.567	ug/L	39.252
>	115	In-1			580506.241	ug/L	628564.297
	97	Mo	2.082698	32.629	5158.026	ug/L	1099.053
	107	Ag	-0.007300	108.835	630.687	ug/L	756.028
	111	Cd	-0.034200	162.061	300.340	ug/L	402.343
	123	Sb	-0.118635	28.731	4735.868	ug/L	5839.772
	135	Ba	-0.064665	81.216	263.339	ug/L	419.010
>	197	Au-1			801144.088	ug/L	871438.669
	205	Tl	1.859520	38.233	44915.776	ug/L	12873.293
	208	Pb	0.076219	96.877	7326.168	ug/L	5892.860
	238	U	-0.015254	487.987	3809.957	ug/L	4539.435
>	115	In-2			580506.241	ug/L	628564.297
	137	Ba	-0.049627	76.958	466.013	ug/L	677.690
>	197	Au-2			801144.088	ug/L	871438.669
	206	Pb	0.067405	106.010	1745.129	ug/L	1442.421
	207	Pb	0.082615	89.901	1744.128	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.236	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.224	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	92.354	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.874	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	92.354
|	Ba	137	
⌈>	Au-2	197	91.934
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EH
Sample Date/Time: Tuesday, April 13, 2010 05:31:00
Autosampler Position: 102
Dataset File: D:\Elandata\Dataset\041210M1\LW7EH.175

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			220800.381	ug/L	219065.440
|	23	Na	24.430897	2.395	94554.844	ug/L	11860.377
|	24	Mg	3.281463	4.355	11212.511	ug/L	3830.886
|	27	Al	8.624906	4.601	35611.034	ug/L	6628.604
|	39	K	12.094439	16.257	794965.344	ug/L	716897.807
|	44	Ca	16.692894	42.123	95606.475	ug/L	91324.351
|	57	Fe	5.124025	43.494	14039.156	ug/L	12818.592
|	9	Be	-0.120953	8.978	9.000	ug/L	48.334
|	51	V	-3.948702	54.085	-59733.822	ug/L	-30646.865
|	52	Cr	1.733628	18.409	42071.675	ug/L	30184.830
|	55	Mn	0.213095	14.058	6261.769	ug/L	4011.938
|	59	Co	-0.151609	3.903	279.006	ug/L	1537.098
⌊	60	Ni	-0.062894	29.530	744.360	ug/L	860.035
⌈>	72	Ge-1			312961.499	ug/L	321356.208
|	65	Cu	0.004719	831.814	1085.052	ug/L	1104.721
|	66	Zn	4.330976	3.552	10946.302	ug/L	5408.412
|	75	As	-0.366504	267.244	-1570.553	ug/L	-1011.066
⌊	82	Se	0.430245	16.494	112.539	ug/L	39.252
⌈>	115	In-1			579866.375	ug/L	628564.297
|	97	Mo	0.585115	23.261	2175.522	ug/L	1099.053
|	107	Ag	-0.020443	15.759	509.014	ug/L	756.028
|	111	Cd	-0.113270	1.843	135.002	ug/L	402.343
|	123	Sb	-0.334652	4.630	3539.981	ug/L	5839.772
⌊	135	Ba	-0.021420	17.516	345.674	ug/L	419.010
⌈>	197	Au-1			809059.205	ug/L	871438.669
|	205	Tl	0.457602	35.902	20132.193	ug/L	12873.293
|	208	Pb	-0.021848	91.098	4912.713	ug/L	5892.860
⌊	238	U	-0.125241	6.166	1162.726	ug/L	4539.435
⌈>	115	In-2			579866.375	ug/L	628564.297
⌊	137	Ba	-0.019196	81.166	563.350	ug/L	677.690
⌈>	197	Au-2			809059.205	ug/L	871438.669
|	206	Pb	-0.025463	63.396	1178.060	ug/L	1442.421
⌊	207	Pb	-0.026705	98.238	1150.058	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	100.792	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	97.388	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	92.253	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
|	Ba	135		
⌈>	Au-1	197	92.842	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	92.253
|	Ba	137	
⌈>	Au-2	197	92.842
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EK
Sample Date/Time: Tuesday, April 13, 2010 05:35:31
Autosampler Position: 103
Dataset File: D:\Elandata\Dataset\041210M1\LW7EK.176

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			208498.046	ug/L	219065.440
	23	Na	12.401812	5.780	50842.843	ug/L	11860.377
	24	Mg	1.275719	8.658	6341.471	ug/L	3830.886
	27	Al	3.324025	6.489	16826.739	ug/L	6628.604
	39	K	10.640164	40.212	741998.170	ug/L	716897.807
	44	Ca	27.550460	57.023	92416.553	ug/L	91324.351
	57	Fe	3.708264	90.686	12953.106	ug/L	12818.592
	9	Be	-0.122672	9.040	8.000	ug/L	48.334
	51	V	-5.220722	39.799	-65605.305	ug/L	-30646.865
	52	Cr	2.172152	13.477	42489.523	ug/L	30184.830
	55	Mn	0.029290	101.530	4099.963	ug/L	4011.938
	59	Co	-0.160229	2.164	196.003	ug/L	1537.098
	60	Ni	0.195127	8.701	1176.727	ug/L	860.035
>	72	Ge-1			311953.077	ug/L	321356.208
	65	Cu	0.212127	12.432	1560.768	ug/L	1104.721
	66	Zn	2.996679	9.114	9164.698	ug/L	5408.412
	75	As	-0.496146	334.111	-1757.997	ug/L	-1011.066
	82	Se	-0.063131	116.490	27.384	ug/L	39.252
>	115	In-1			575497.577	ug/L	628564.297
	97	Mo	0.214190	24.581	1427.086	ug/L	1099.053
	107	Ag	-0.030103	5.855	416.677	ug/L	756.028
	111	Cd	-0.128145	4.806	103.001	ug/L	402.343
	123	Sb	-0.367101	5.714	3334.571	ug/L	5839.772
	135	Ba	-0.098822	3.674	196.670	ug/L	419.010
>	197	Au-1			794239.251	ug/L	871438.669
	205	Tl	0.076755	101.243	13071.806	ug/L	12873.293
	208	Pb	-0.089199	11.636	3157.499	ug/L	5892.860
	238	U	-0.147234	3.381	617.020	ug/L	4539.435
>	115	In-2			575497.577	ug/L	628564.297
	137	Ba	-0.089411	3.637	335.341	ug/L	677.690
>	197	Au-2			794239.251	ug/L	871438.669
	206	Pb	-0.092503	10.430	744.694	ug/L	1442.421
	207	Pb	-0.091011	9.682	779.029	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.176	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.074	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.557	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.144	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	91.557
|	Ba	137	
⌈>	Au-2	197	91.141
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVB
Sample Date/Time: Tuesday, April 13, 2010 05:40:04
Autosampler Position: 104
Dataset File: D:\Elandata\Dataset\041210M1\LXLFVB.177

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			207886.589	ug/L	219065.440
	23	Na	31.750512	2.797	112324.125	ug/L	11860.377
	24	Mg	8.622159	3.352	21825.555	ug/L	3830.886
	27	Al	12.690704	6.628	46357.651	ug/L	6628.604
	39	K	18.179597	25.531	782532.560	ug/L	716897.807
	44	Ca	19.632428	53.670	90588.885	ug/L	91324.351
	57	Fe	8.318642	16.352	13877.913	ug/L	12818.592
	9	Be	-0.125796	2.749	7.000	ug/L	48.334
	51	V	-0.797527	61.303	-34588.045	ug/L	-30646.865
	52	Cr	0.206618	77.266	29940.315	ug/L	30184.830
	55	Mn	0.063731	32.880	4429.731	ug/L	4011.938
	59	Co	-0.156905	0.644	221.004	ug/L	1537.098
	60	Ni	0.213339	10.693	1205.730	ug/L	860.035
>	72	Ge-1			301199.467	ug/L	321356.208
	65	Cu	0.019298	23.509	1078.385	ug/L	1104.721
	66	Zn	4.046820	3.598	10179.061	ug/L	5408.412
	75	As	-0.237506	107.125	-1307.228	ug/L	-1011.066
	82	Se	-0.099087	290.028	20.411	ug/L	39.252
>	115	In-1			581334.588	ug/L	628564.297
	97	Mo	-0.032293	68.909	951.708	ug/L	1099.053
	107	Ag	-0.029530	5.386	426.344	ug/L	756.028
	111	Cd	-0.140815	4.622	77.668	ug/L	402.343
	123	Sb	-0.748989	4.041	1255.295	ug/L	5839.772
	135	Ba	0.221742	3.521	811.364	ug/L	419.010
>	197	Au-1			802477.094	ug/L	871438.669
	205	Tl	0.064368	22.640	13002.047	ug/L	12873.293
	208	Pb	0.001201	747.905	5456.793	ug/L	5892.860
	238	U	-0.151801	0.383	514.348	ug/L	4539.435
>	115	In-2			581334.588	ug/L	628564.297
	137	Ba	0.246471	9.397	1421.752	ug/L	677.690
>	197	Au-2			802477.094	ug/L	871438.669
	206	Pb	0.001442	451.822	1337.076	ug/L	1442.421
	207	Pb	-0.005401	71.462	1260.402	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	94.897	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	93.728	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	92.486	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	92.086	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	92.486
|	Ba	137	
⌈>	Au-2	197	92.086
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Tuesday, April 13, 2010 05:44:36
Autosampler Position: 105
Dataset File: D:\Elandata\Dataset\041210M1\LXLFVC.178

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			268958.489	ug/L	219065.440
	23	Na	1277.980033	4.237	5274069.245	ug/L	11860.377
	24	Mg	7685.415194	3.468	20968377.545	ug/L	3830.886
	27	Al	14373.001872	3.184	58718135.720	ug/L	6628.604
	39	K	5956.422771	4.359	44335515.810	ug/L	716897.807
	44	Ca	14188.337885	2.698	3810405.644	ug/L	91324.351
	57	Fe	27709.667929	5.703	7410910.194	ug/L	12818.592
	9	Be	173.676284	2.383	69432.366	ug/L	48.334
	51	V	297.751327	1.827	2618780.882	ug/L	-30646.865
	52	Cr	137.255320	3.401	1161615.648	ug/L	30184.830
	55	Mn	990.256787	4.123	12564656.405	ug/L	4011.938
	59	Co	432.965840	4.661	4415552.103	ug/L	1537.098
	60	Ni	160.271198	4.020	379965.513	ug/L	860.035
>	72	Ge-1			295708.316	ug/L	321356.208
	65	Cu	265.100815	2.662	580467.028	ug/L	1104.721
	66	Zn	782.128717	2.373	974395.392	ug/L	5408.412
	75	As	340.913424	0.120	506256.320	ug/L	-1011.066
	82	Se	298.554163	3.328	48879.892	ug/L	39.252
>	115	In-1			549843.936	ug/L	628564.297
	97	Mo	169.220210	0.314	319505.947	ug/L	1099.053
	107	Ag	137.182902	2.365	1199229.932	ug/L	756.028
	111	Cd	394.667480	1.688	780595.735	ug/L	402.343
	123	Sb	133.117264	0.982	701825.702	ug/L	5839.772
	135	Ba	808.866028	0.145	1463248.875	ug/L	419.010
>	197	Au-1			792275.820	ug/L	871438.669
	205	Tl	549.207051	2.993	9668092.181	ug/L	12873.293
	208	Pb	489.233042	2.571	12096645.037	ug/L	5892.860
	238	U	3.433743	0.921	85982.543	ug/L	4539.435
>	115	In-2			549843.936	ug/L	628564.297
	137	Ba	825.201961	0.891	2515367.509	ug/L	677.690
>	197	Au-2			792275.820	ug/L	871438.669
	206	Pb	496.987784	2.894	3051568.415	ug/L	1442.421
	207	Pb	488.889752	2.618	2665994.377	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	122.775	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.019	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.476	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.916	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	87.478
|	Ba	137	
⌈>	Au-2	197	90.916
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Tuesday, April 13, 2010 05:49:09
Autosampler Position: 106
Dataset File: D:\Elandata\Dataset\041210M1\LXLFVC.179

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			224983.133	ug/L	219065.440
	23	Na	776.364784	2.003	2687153.668	ug/L	11860.377
	24	Mg	4700.807338	0.911	10737746.827	ug/L	3830.886
	27	Al	8756.581383	1.328	29951025.943	ug/L	6628.604
	39	K	3601.524223	1.052	22735471.412	ug/L	716897.807
	44	Ca	8519.685012	1.062	1952431.802	ug/L	91324.351
	57	Fe	16515.375224	1.792	3703454.129	ug/L	12818.592
	9	Be	107.060554	1.116	35838.927	ug/L	48.334
	51	V	205.128184	3.271	1499807.252	ug/L	-30646.865
	52	Cr	84.400829	1.594	609645.749	ug/L	30184.830
	55	Mn	586.206158	2.811	6227676.365	ug/L	4011.938
	59	Co	256.678883	2.117	2192295.033	ug/L	1537.098
	60	Ni	94.557116	0.611	188041.041	ug/L	860.035
>	72	Ge-1			290244.694	ug/L	321356.208
	65	Cu	137.575324	1.260	296203.463	ug/L	1104.721
	66	Zn	420.674236	1.137	516797.610	ug/L	5408.412
	75	As	184.256997	3.609	268156.787	ug/L	-1011.066
	82	Se	158.999214	1.768	25575.378	ug/L	39.252
>	115	In-1			554235.428	ug/L	628564.297
	97	Mo	83.657969	1.811	159720.540	ug/L	1099.053
	107	Ag	69.656041	0.317	614090.318	ug/L	756.028
	111	Cd	201.378727	1.503	401639.573	ug/L	402.343
	123	Sb	66.522560	0.565	356091.741	ug/L	5839.772
	135	Ba	417.699642	1.131	761793.134	ug/L	419.010
>	197	Au-1			779233.053	ug/L	871438.669
	205	Tl	276.422849	0.392	4793284.726	ug/L	12873.293
	208	Pb	258.321734	1.047	6287188.058	ug/L	5892.860
	238	U	1.677599	1.931	43394.581	ug/L	4539.435
>	115	In-2			554235.428	ug/L	628564.297
	137	Ba	429.470457	0.239	1319885.776	ug/L	677.690
>	197	Au-2			779233.053	ug/L	871438.669
	206	Pb	260.736669	1.290	1575921.715	ug/L	1442.421
	207	Pb	261.707635	0.790	1404677.377	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.701	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	90.319	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.175	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	88.175
L	Ba	137	
⌈>	Au-2	197	89.419
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Tuesday, April 13, 2010 05:53:40
Autosampler Position: 107
Dataset File: D:\Elandata\Dataset\041210M1\LXLFVC.180

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			209988.244	ug/L	219065.440
	23	Na	5135.309968	1.401	16526005.469	ug/L	11860.377
	24	Mg	4966.829148	1.309	10588927.630	ug/L	3830.886
	27	Al	4917.141056	1.053	15698152.359	ug/L	6628.604
	39	K	5066.045815	1.166	29572932.094	ug/L	716897.807
	44	Ca	9951.791082	1.330	2113881.451	ug/L	91324.351
	57	Fe	5429.307142	3.677	1144485.774	ug/L	12818.592
	9	Be	522.530256	1.998	163090.628	ug/L	48.334
	51	V	478.365403	0.444	3303829.036	ug/L	-30646.865
	52	Cr	495.662860	0.934	3200942.868	ug/L	30184.830
	55	Mn	494.334237	0.763	4902968.492	ug/L	4011.938
	59	Co	515.253327	3.845	4105597.614	ug/L	1537.098
	60	Ni	517.252874	1.518	956423.611	ug/L	860.035
>	72	Ge-1			297284.601	ug/L	321356.208
	65	Cu	491.057610	0.687	1080276.046	ug/L	1104.721
	66	Zn	654.149785	1.754	820432.479	ug/L	5408.412
	75	As	493.753794	0.450	737599.168	ug/L	-1011.066
	82	Se	474.958857	0.890	78173.688	ug/L	39.252
>	115	In-1			551300.488	ug/L	628564.297
	97	Mo	542.449614	3.228	1024356.017	ug/L	1099.053
	107	Ag	52.557473	1.711	461006.612	ug/L	756.028
	111	Cd	513.380747	0.764	1018061.722	ug/L	402.343
	123	Sb	261.115407	2.213	1374945.275	ug/L	5839.772
	135	Ba	527.788547	3.333	957020.059	ug/L	419.010
>	197	Au-1			773958.750	ug/L	871438.669
	205	Tl	505.155075	1.587	8690169.681	ug/L	12873.293
	208	Pb	494.720009	1.859	11955083.938	ug/L	5892.860
	238	U	521.895205	2.063	12160518.976	ug/L	4539.435
>	115	In-2			551300.488	ug/L	628564.297
	137	Ba	542.088735	1.394	1657210.773	ug/L	677.690
>	197	Au-2			773958.750	ug/L	871438.669
	206	Pb	486.583002	0.543	2919837.190	ug/L	1442.421
	207	Pb	517.266630	2.073	2756503.087	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.856	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.509	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.708	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	88.814	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.708
	Ba	137	
>	Au-2	197	88.814
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 05:58:12
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.181

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			208922.058	ug/L	219065.440
	23	Na	3764.321815	5.820	12048283.566	ug/L	11860.377
	24	Mg	7602.851405	3.729	16117969.688	ug/L	3830.886
	27	Al	3859.006318	2.939	12255471.285	ug/L	6628.604
	39	K	3850.008920	4.724	22513047.351	ug/L	716897.807
	44	Ca	7915.908990	0.761	1690593.316	ug/L	91324.351
	57	Fe	7944.323619	0.146	1660838.784	ug/L	12818.592
	9	Be	1005.097165	2.472	311965.984	ug/L	48.334
	51	V	918.030529	1.382	6334221.386	ug/L	-30646.865
	52	Cr	937.388445	2.808	5995308.383	ug/L	30184.830
	55	Mn	967.255428	3.565	9537226.044	ug/L	4011.938
	59	Co	961.058099	3.704	7616229.437	ug/L	1537.098
	60	Ni	951.029337	3.186	1748177.897	ug/L	860.035
[>	72	Ge-1			281075.651	ug/L	321356.208
	65	Cu	970.824004	1.040	2018377.673	ug/L	1104.721
	66	Zn	992.892725	1.552	1174828.241	ug/L	5408.412
	75	As	993.895904	0.580	1404623.490	ug/L	-1011.066
	82	Se	1001.847213	1.210	155874.447	ug/L	39.252
[>	115	In-1			542791.913	ug/L	628564.297
	97	Mo	1011.007938	1.351	1879538.681	ug/L	1099.053
	107	Ag	195.700620	3.896	1688154.366	ug/L	756.028
	111	Cd	988.282833	1.828	1928944.866	ug/L	402.343
	123	Sb	497.354205	3.224	2574210.003	ug/L	5839.772
	135	Ba	998.299163	1.153	1782563.852	ug/L	419.010
[>	197	Au-1			772784.703	ug/L	871438.669
	205	Tl	971.182579	1.083	16672059.831	ug/L	12873.293
	208	Pb	981.376000	1.836	23670364.866	ug/L	5892.860
	238	U	990.698637	1.545	23042603.980	ug/L	4539.435
[>	115	In-2			542791.913	ug/L	628564.297
	137	Ba	1004.604653	2.263	3022629.397	ug/L	677.690
[>	197	Au-2			772784.703	ug/L	871438.669
	206	Pb	980.243702	1.063	5871714.992	ug/L	1442.421
	207	Pb	993.946323	1.418	5286792.024	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	95.370	
	Na	23		94.108
	Mg	24		95.036
	Al	27		96.475
	K	39		96.250
	Ca	44		98.949
	Fe	57		99.304
	Be	9		100.510
	V	51		91.803
	Cr	52		93.739
	Mn	55		96.726
	Co	59		96.108
	Ni	60		95.103
[>	Ge-1	72	87.465	
	Cu	65		97.082
	Zn	66		99.289
	As	75		99.390
	Se	82		100.185
[>	In-1	115	86.354	
	Mo	97		101.101
	Ag	107		97.850
	Cd	111		98.826
	Sb	123		99.471
	Ba	135		99.830
[>	Au-1	197	[illegible]	

	Tl	205		97.118
	Pb	208		98.138
	U	238		99.070
>	In-2	115	86.354	
	Ba	137		100.460
>	Au-2	197	88.679	
	Pb	206		98.024
	Pb	207		99.395

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 06:03:15
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.182

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			201550.078	ug/L	219065.440
|	23	Na	2.514382	11.994	18682.765	ug/L	11860.377
|	24	Mg	4.736525	6.804	13211.916	ug/L	3830.886
|	27	Al	3.074347	4.841	15516.920	ug/L	6628.604
|	39	K	13.523795	24.890	733279.362	ug/L	716897.807
|	44	Ca	9.478630	115.794	85839.312	ug/L	91324.351
|	57	Fe	6.756511	19.475	13142.746	ug/L	12818.592
|	9	Be	0.508851	7.892	197.003	ug/L	48.334
|	51	V	0.561278	235.289	-24353.713	ug/L	-30646.865
|	52	Cr	0.103205	315.723	28374.814	ug/L	30184.830
|	55	Mn	0.532012	12.924	8748.441	ug/L	4011.938
|	59	Co	0.528294	7.723	5456.100	ug/L	1537.098
⌊	60	Ni	0.458775	7.522	1604.773	ug/L	860.035
⌈>	72	Ge-1			291951.915	ug/L	321356.208
|	65	Cu	0.489392	13.333	2060.170	ug/L	1104.721
|	66	Zn	0.541565	28.325	5575.478	ug/L	5408.412
|	75	As	1.068748	79.843	660.535	ug/L	-1011.066
⌊	82	Se	0.490216	35.265	115.060	ug/L	39.252
⌈>	115	In-1			550706.100	ug/L	628564.297
|	97	Mo	1.331580	25.477	3477.802	ug/L	1099.053
|	107	Ag	0.111297	21.086	1637.445	ug/L	756.028
|	111	Cd	0.519341	5.040	1381.081	ug/L	402.343
|	123	Sb	2.106814	39.193	16191.038	ug/L	5839.772
⌊	135	Ba	0.487082	14.757	1249.401	ug/L	419.010
⌈>	197	Au-1			799745.046	ug/L	871438.669
|	205	Tl	1.987967	28.156	47020.711	ug/L	12873.293
|	208	Pb	0.569462	12.547	19627.533	ug/L	5892.860
⌊	238	U	0.539429	7.066	17149.820	ug/L	4539.435
⌈>	115	In-2			550706.100	ug/L	628564.297
⌊	137	Ba	0.533362	13.000	2221.863	ug/L	677.690
⌈>	197	Au-2			799745.046	ug/L	871438.669
|	206	Pb	0.560494	11.376	4800.193	ug/L	1442.421
⌊	207	Pb	0.561494	10.442	4376.717	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	92.005	
|	Na	23		251.438
|	Mg	24		473.653
|	Al	27		307.435
|	K	39		1352.380
|	Ca	44		947.863
|	Fe	57		675.651
|	Be	9		50.885
|	V	51		56.128
|	Cr	52		10.321
|	Mn	55		53.201
|	Co	59		52.829
⌊	Ni	60		45.877
⌈>	Ge-1	72	90.850	
|	Cu	65		48.939
|	Zn	66		54.157
|	As	75		106.875
⌊	Se	82		49.022
⌈>	In-1	115	87.613	
|	Mo	97		133.158
|	Ag	107		11.130
|	Cd	111		51.934
|	Sb	123		210.681
⌊	Ba	135		48.708
⌈>	Au-1	197	91.773	

	Tl	205		198.797
	Pb	208		56.946
	U	238		53.943
>	In-2	115	87.613	
	Ba	137		53.336
>	Au-2	197	91.773	
	Pb	206		56.049
	Pb	207		58.149

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
As	75	Q
Mo	97	Q
Cd	111	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3
Sample Date/Time: Tuesday, April 13, 2010 06:08:17
Autosampler Position: 108
Dataset File: D:\Elandata\Dataset\041210M1\LW5N3.183

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			302642.896	ug/L	219065.440
	23	Na	96.472278	2.013	463533.872	ug/L	11860.377
	24	Mg	2697.590308	0.850	8291851.389	ug/L	3830.886
	27	Al	21067.614159	0.555	96915057.912	ug/L	6628.604
	39	K	705.282953	1.970	6786079.530	ug/L	716897.807
	44	Ca	7888.684478	0.506	2441158.273	ug/L	91324.351
	57	Fe	58840.201345	2.587	17705304.653	ug/L	12818.592
	9	Be	1.709971	3.601	835.699	ug/L	48.334
	51	V	102.795656	0.819	990001.838	ug/L	-30646.865
	52	Cr	71.283153	3.583	699134.207	ug/L	30184.830
	55	Mn	1021.268580	2.238	14592798.211	ug/L	4011.938
	59	Co	19.182130	1.019	222393.538	ug/L	1537.098
	60	Ni	28.570173	1.701	77255.116	ug/L	860.035
>	72	Ge-1			320565.799	ug/L	321356.208
	65	Cu	32.795214	2.505	78819.402	ug/L	1104.721
	66	Zn	106.966843	2.271	149119.413	ug/L	5408.412
	75	As	31.806303	2.628	50276.444	ug/L	-1011.066
	82	Se	0.682107	84.727	160.850	ug/L	39.252
>	115	In-1			553944.426	ug/L	628564.297
	97	Mo	3.466510	6.304	7534.062	ug/L	1099.053
	107	Ag	0.234420	7.096	2729.289	ug/L	756.028
	111	Cd	0.068148	13.261	490.013	ug/L	402.343
	123	Sb	0.773730	30.097	9199.910	ug/L	5839.772
	135	Ba	355.872697	1.706	648698.984	ug/L	419.010
>	197	Au-1			766674.352	ug/L	871438.669
	205	Tl	0.991521	19.264	28198.661	ug/L	12873.293
	208	Pb	41.657632	1.377	1001817.816	ug/L	5892.860
	238	U	4.873925	0.443	116442.476	ug/L	4539.435
>	115	In-2			553944.426	ug/L	628564.297
	137	Ba	363.967674	0.736	1118168.926	ug/L	677.690
>	197	Au-2			766674.352	ug/L	871438.669
	206	Pb	42.889651	1.933	256087.177	ug/L	1442.421
	207	Pb	39.835559	2.054	211394.310	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	138.152	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.754	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.129	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.978	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.129
|	Ba	137	
⌈>	Au-2	197	87.978
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3V
Sample Date/Time: Tuesday, April 13, 2010 06:12:48
Autosampler Position: 109
Dataset File: D:\Elandata\Dataset\041210M1\LW5N3V.184

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217524.147	ug/L	219065.440
	23	Na	27.604312	0.839	103744.073	ug/L	11860.377
	24	Mg	848.027707	0.854	1876094.042	ug/L	3830.886
	27	Al	6162.547463	1.731	20379554.195	ug/L	6628.604
	39	K	210.282707	1.264	1953750.007	ug/L	716897.807
	44	Ca	2479.851318	2.124	613692.306	ug/L	91324.351
	57	Fe	16637.662760	1.501	3607510.562	ug/L	12818.592
	9	Be	0.413678	5.410	181.670	ug/L	48.334
	51	V	33.465089	2.422	211095.401	ug/L	-30646.865
	52	Cr	17.864629	4.027	148376.997	ug/L	30184.830
	55	Mn	289.088228	3.331	2971397.925	ug/L	4011.938
	59	Co	5.382106	1.070	45945.904	ug/L	1537.098
	60	Ni	8.403188	2.225	16933.868	ug/L	860.035
>	72	Ge-1			292587.141	ug/L	321356.208
	65	Cu	7.500050	0.424	17229.222	ug/L	1104.721
	66	Zn	25.766706	0.617	36532.016	ug/L	5408.412
	75	As	7.874826	2.868	10671.778	ug/L	-1011.066
	82	Se	0.185245	127.264	65.820	ug/L	39.252
>	115	In-1			555911.340	ug/L	628564.297
	97	Mo	0.494967	9.930	1914.481	ug/L	1099.053
	107	Ag	0.015082	16.273	801.697	ug/L	756.028
	111	Cd	-0.061700	9.737	232.671	ug/L	402.343
	123	Sb	-0.638375	1.363	1785.890	ug/L	5839.772
	135	Ba	71.456220	3.351	130955.946	ug/L	419.010
>	197	Au-1			807172.610	ug/L	871438.669
	205	Tl	-0.124579	33.816	9684.053	ug/L	12873.293
	208	Pb	7.922147	1.626	204975.289	ug/L	5892.860
	238	U	0.814860	0.869	23996.044	ug/L	4539.435
>	115	In-2			555911.340	ug/L	628564.297
	137	Ba	74.627902	6.332	230243.246	ug/L	677.690
>	197	Au-2			807172.610	ug/L	871438.669
	206	Pb	8.123509	3.845	52131.163	ug/L	1442.421
	207	Pb	7.627342	0.709	43663.403	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	99.296	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	91.048	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.441	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	92.625	

LOT # H0B080195

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.441
|	Ba	137	
⌈>	Au-2	197	92.625
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3S
Sample Date/Time: Tuesday, April 13, 2010 06:17:19
Autosampler Position: 110
Dataset File: D:\Elandata\Dataset\041210M1\LW5N3S.185

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			317699.597	ug/L	219065.440
	23	Na	3070.667218	2.392	14955975.119	ug/L	11860.377
	24	Mg	6732.408627	1.956	21713981.535	ug/L	3830.886
	27	Al	45217.887199	3.957	218300453.948	ug/L	6628.604
	39	K	5023.033276	0.884	44372101.509	ug/L	716897.807
	44	Ca	13949.097852	1.549	4429192.877	ug/L	91324.351
	57	Fe	47960.244101	2.488	15150412.421	ug/L	12818.592
	9	Be	329.236717	1.161	155483.138	ug/L	48.334
	51	V	397.556278	2.252	4147031.384	ug/L	-30646.865
	52	Cr	366.591187	1.633	3593123.681	ug/L	30184.830
	55	Mn	1308.244926	1.568	19620484.489	ug/L	4011.938
	59	Co	337.596031	2.357	4071015.915	ug/L	1537.098
	60	Ni	355.114710	0.729	993778.476	ug/L	860.035
>	72	Ge-1			316318.944	ug/L	321356.208
	65	Cu	470.443220	3.780	1100493.763	ug/L	1104.721
	66	Zn	549.594825	2.353	733902.030	ug/L	5408.412
	75	As	467.501660	0.875	742882.081	ug/L	-1011.066
	82	Se	437.389864	1.892	76580.066	ug/L	39.252
>	115	In-1			548052.112	ug/L	628564.297
	97	Mo	522.023729	2.263	980371.727	ug/L	1099.053
	107	Ag	52.348240	1.915	456526.406	ug/L	756.028
	111	Cd	512.023379	0.823	1009388.510	ug/L	402.343
	123	Sb	132.727344	0.935	697468.326	ug/L	5839.772
	135	Ba	941.454118	0.713	1697549.486	ug/L	419.010
>	197	Au-1			764811.521	ug/L	871438.669
	205	Tl	501.131076	3.696	8518457.278	ug/L	12873.293
	208	Pb	536.007514	0.406	12797677.512	ug/L	5892.860
	238	U	545.787876	1.617	12566676.558	ug/L	4539.435
>	115	In-2			548052.112	ug/L	628564.297
	137	Ba	955.853077	1.939	2903775.788	ug/L	677.690
>	197	Au-2			764811.521	ug/L	871438.669
	206	Pb	523.660924	1.310	3104720.264	ug/L	1442.421
	207	Pb	552.003553	0.317	2906566.418	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	145.025	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.432	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.191	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	97.764	

|	Tl	205	
|	Pb	208	
L	U	238	
Γ>	In-2	115	87.191
L	Ba	137	
Γ>	Au-2	197	87.764
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3D
Sample Date/Time: Tuesday, April 13, 2010 06:21:51
Autosampler Position: 111
Dataset File: D:\Elandata\Dataset\041210M1\LW5N3D.186

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			319984.931	ug/L	219065.440
	23	Na	3037.613420	1.572	14903392.759	ug/L	11860.377
	24	Mg	7235.291131	0.578	23504188.072	ug/L	3830.886
	27	Al	43070.032715	1.374	209482445.610	ug/L	6628.604
	39	K	5109.520089	0.365	45440454.741	ug/L	716897.807
	44	Ca	13421.300949	1.501	4297484.058	ug/L	91324.351
	57	Fe	46126.521576	1.355	14678427.099	ug/L	12818.592
	9	Be	320.076430	2.484	152237.546	ug/L	48.334
	51	V	380.701477	1.647	3997166.147	ug/L	-30646.865
	52	Cr	356.070219	1.962	3516286.647	ug/L	30184.830
	55	Mn	1334.804733	1.896	20164352.111	ug/L	4011.938
	59	Co	341.043877	3.499	4142044.831	ug/L	1537.098
	60	Ni	358.272527	1.215	1009826.758	ug/L	860.035
>	72	Ge-1			312862.886	ug/L	321356.208
	65	Cu	473.308456	3.083	1095573.030	ug/L	1104.721
	66	Zn	564.463660	2.194	745548.530	ug/L	5408.412
	75	As	468.856042	0.458	736991.471	ug/L	-1011.066
	82	Se	434.616637	2.175	75293.907	ug/L	39.252
>	115	In-1			545006.310	ug/L	628564.297
	97	Mo	522.394770	2.281	975575.752	ug/L	1099.053
	107	Ag	53.270032	0.989	461944.341	ug/L	756.028
	111	Cd	513.800916	2.311	1007047.465	ug/L	402.343
	123	Sb	131.985584	2.358	689643.526	ug/L	5839.772
	135	Ba	921.118812	0.972	1651573.951	ug/L	419.010
>	197	Au-1			761341.388	ug/L	871438.669
	205	Tl	506.603237	1.942	8570803.263	ug/L	12873.293
	208	Pb	534.229167	2.825	12691826.641	ug/L	5892.860
	238	U	526.876538	0.490	12075264.759	ug/L	4539.435
>	115	In-2			545006.310	ug/L	628564.297
	137	Ba	952.921303	4.113	2878205.932	ug/L	677.690
>	197	Au-2			761341.388	ug/L	871438.669
	206	Pb	527.897046	1.736	3115089.004	ug/L	1442.421
	207	Pb	556.040171	1.480	2913784.793	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	146.068	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.357	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	86.707	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.366	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	86.707
|	Ba	137	
⌈>	Au-2	197	87.366
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PM
Sample Date/Time: Tuesday, April 13, 2010 06:26:22
Autosampler Position: 112
Dataset File: D:\Elandata\Dataset\041210M1\LW5PM.187

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			297728.158	ug/L	219065.440
|	23	Na	150.967330	1.972	704322.821	ug/L	11860.377
|	24	Mg	2944.987453	2.586	8901445.995	ug/L	3830.886
|	27	Al	19085.931299	1.166	86356533.131	ug/L	6628.604
|	39	K	682.141927	1.942	6487308.228	ug/L	716897.807
|	44	Ca	19669.816960	3.422	5800044.409	ug/L	91324.351
|	57	Fe	25798.190677	2.907	7644842.546	ug/L	12818.592
|	9	Be	1.241999	5.818	614.686	ug/L	48.334
|	51	V	58.416682	6.029	535032.908	ug/L	-30646.865
|	52	Cr	25.854487	3.097	275513.936	ug/L	30184.830
|	55	Mn	455.483197	1.072	6406937.749	ug/L	4011.938
|	59	Co	11.804449	1.738	135399.338	ug/L	1537.098
⌊	60	Ni	20.733244	1.482	55468.382	ug/L	860.035
⌈>	72	Ge-1			305107.372	ug/L	321356.208
|	65	Cu	28.774391	3.354	65937.861	ug/L	1104.721
|	66	Zn	66.391712	2.226	90048.495	ug/L	5408.412
|	75	As	11.000051	1.244	15925.487	ug/L	-1011.066
⌊	82	Se	0.403762	49.731	105.185	ug/L	39.252
⌈>	115	In-1			552745.313	ug/L	628564.297
|	97	Mo	1.570926	16.433	3933.918	ug/L	1099.053
|	107	Ag	0.198089	7.939	2403.226	ug/L	756.028
|	111	Cd	0.157337	24.316	665.689	ug/L	402.343
|	123	Sb	-0.351234	13.711	3284.601	ug/L	5839.772
⌊	135	Ba	244.177199	2.478	444218.426	ug/L	419.010
⌈>	197	Au-1			768125.938	ug/L	871438.669
|	205	Tl	1.419689	26.083	35545.433	ug/L	12873.293
|	208	Pb	38.214837	1.792	921138.618	ug/L	5892.860
⌊	238	U	3.444919	2.863	83619.581	ug/L	4539.435
⌈>	115	In-2			552745.313	ug/L	628564.297
⌊	137	Ba	251.242136	2.281	770349.265	ug/L	677.690
⌈>	197	Au-2			768125.938	ug/L	871438.669
|	206	Pb	39.148894	0.916	234316.887	ug/L	1442.421
⌊	207	Pb	36.454760	1.071	193931.511	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	135.908	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.944	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	87.938	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
⌊	Ba	135		
⌈>	Au-1	197	88.145	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	87.938
|	Ba	137	
⌈>	Au-2	197	88.145
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PT
Sample Date/Time: Tuesday, April 13, 2010 06:30:54
Autosampler Position: 113
Dataset File: D:\Elandata\Dataset\041210M1\LW5PT.188

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			311548.074	ug/L	219065.440
	23	Na	115.753877	0.566	569221.338	ug/L	11860.377
	24	Mg	3956.744948	1.297	12517183.791	ug/L	3830.886
	27	Al	23574.288699	0.584	111630519.934	ug/L	6628.604
	39	K	1064.671644	1.956	10025049.277	ug/L	716897.807
	44	Ca	7462.111970	2.456	2383967.132	ug/L	91324.351
	57	Fe	43410.727862	2.549	13450401.982	ug/L	12818.592
	9	Be	1.375741	5.767	705.691	ug/L	48.334
	51	V	80.493172	2.057	788521.666	ug/L	-30646.865
	52	Cr	41.120243	1.603	433362.326	ug/L	30184.830
	55	Mn	1030.166030	0.790	15153277.200	ug/L	4011.938
	59	Co	21.229861	2.036	253134.203	ug/L	1537.098
	60	Ni	37.901686	1.440	105109.361	ug/L	860.035
>	72	Ge-1			323498.155	ug/L	321356.208
	65	Cu	39.720080	1.298	96102.807	ug/L	1104.721
	66	Zn	120.755027	2.166	169220.993	ug/L	5408.412
	75	As	26.260153	0.406	41721.105	ug/L	-1011.066
	82	Se	0.506003	97.102	129.756	ug/L	39.252
>	115	In-1			556500.172	ug/L	628564.297
	97	Mo	2.394669	4.016	5532.793	ug/L	1099.053
	107	Ag	0.233629	4.955	2733.622	ug/L	756.028
	111	Cd	0.090450	20.799	537.349	ug/L	402.343
	123	Sb	-0.210112	14.328	4056.905	ug/L	5839.772
	135	Ba	497.383559	2.611	910403.949	ug/L	419.010
>	197	Au-1			767918.709	ug/L	871438.669
	205	Tl	0.806519	6.456	25092.286	ug/L	12873.293
	208	Pb	54.832762	0.543	1319199.607	ug/L	5892.860
	238	U	2.928939	2.965	71687.578	ug/L	4539.435
>	115	In-2			556500.172	ug/L	628564.297
	137	Ba	504.049918	1.933	1554798.598	ug/L	677.690
>	197	Au-2			767918.709	ug/L	871438.669
	206	Pb	57.047709	0.865	340767.248	ug/L	1442.421
	207	Pb	52.671341	1.390	279565.563	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.217	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	100.667	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.535	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	[illegible]	[illegible]		
>	Au-1	197	[illegible]	

Tl	205	
Pb	208	
U	238	
In-2	115	88.535
Ba	137	
Au-2	197	88.121
Pb	206	
Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PX
Sample Date/Time: Tuesday, April 13, 2010 06:35:26
Autosampler Position: 114
Dataset File: D:\Elandata\Dataset\041210M1\LW5PX.189

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			312417.597	ug/L	219065.440
	23	Na	121.207305	2.393	596863.512	ug/L	11860.377
	24	Mg	3349.918931	2.343	10626959.531	ug/L	3830.886
	27	Al	22480.203241	1.019	106741790.197	ug/L	6628.604
	39	K	1110.079136	1.595	10437920.640	ug/L	716897.807
	44	Ca	18868.713423	2.072	5846421.428	ug/L	91324.351
	57	Fe	41049.982364	3.438	12755206.509	ug/L	12818.592
	9	Be	1.216522	1.413	633.687	ug/L	48.334
	51	V	70.755160	1.397	689763.818	ug/L	-30646.865
	52	Cr	45.399973	1.165	475357.456	ug/L	30184.830
	55	Mn	1243.360917	1.101	18340110.409	ug/L	4011.938
	59	Co	20.480014	3.478	244967.276	ug/L	1537.098
	60	Ni	34.895258	3.050	97143.378	ug/L	860.035
>	72	Ge-1			328899.105	ug/L	321356.208
	65	Cu	37.595154	2.334	92516.934	ug/L	1104.721
	66	Zn	124.692601	0.693	177459.161	ug/L	5408.412
	75	As	22.965314	2.264	36959.896	ug/L	-1011.066
	82	Se	0.608624	41.855	150.838	ug/L	39.252
>	115	In-1			571101.528	ug/L	628564.297
	97	Mo	2.596072	1.852	6074.352	ug/L	1099.053
	107	Ag	0.218615	6.941	2670.610	ug/L	756.028
	111	Cd	0.300216	1.491	982.044	ug/L	402.343
	123	Sb	-0.127507	9.651	4612.698	ug/L	5839.772
	135	Ba	408.757058	0.806	768225.550	ug/L	419.010
>	197	Au-1			785156.048	ug/L	871438.669
	205	Tl	0.599267	6.895	22042.559	ug/L	12873.293
	208	Pb	49.247055	1.071	1211825.376	ug/L	5892.860
	238	U	5.785572	2.879	140751.166	ug/L	4539.435
>	115	In-2			571101.528	ug/L	628564.297
	137	Ba	416.451983	1.560	1318859.494	ug/L	677.690
>	197	Au-2			785156.048	ug/L	871438.669
	206	Pb	51.047229	1.887	311880.905	ug/L	1442.421
	207	Pb	47.115129	1.528	255804.060	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.514	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.347	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.858	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.099	

!	Tl	205	
|	Pb	208	
!	U	238	
⌈>	In-2	115	90.858
⌊	Ba	137	
⌈>	Au-2	197	90.099
|	Pb	206	
⌊	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P2
Sample Date/Time: Tuesday, April 13, 2010 06:39:57
Autosampler Position: 115
Dataset File: D:\Elandata\Dataset\041210M1\LW5P2.190

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			281801.516	ug/L	219065.440
	23	Na	76.393667	3.668	344898.226	ug/L	11860.377
	24	Mg	2322.894203	1.837	6648436.953	ug/L	3830.886
	27	Al	17726.869549	2.006	75915715.621	ug/L	6628.604
	39	K	1161.758754	0.550	9811176.171	ug/L	716897.807
	44	Ca	9416.891691	1.744	2690705.103	ug/L	91324.351
	57	Fe	36302.432469	2.386	10175674.267	ug/L	12818.592
	9	Be	1.154630	0.710	545.683	ug/L	48.334
	51	V	66.391886	8.400	580863.030	ug/L	-30646.865
	52	Cr	34.662285	4.023	336398.751	ug/L	30184.830
	55	Mn	946.598026	1.942	12592922.235	ug/L	4011.938
	59	Co	16.728914	3.283	180783.099	ug/L	1537.098
	60	Ni	25.886413	1.170	65280.814	ug/L	860.035
>	72	Ge-1			322445.811	ug/L	321356.208
	65	Cu	31.084973	1.449	75203.511	ug/L	1104.721
	66	Zn	116.991809	2.080	163573.939	ug/L	5408.412
	75	As	20.220612	1.121	31786.389	ug/L	-1011.066
	82	Se	0.969741	41.902	212.071	ug/L	39.252
>	115	In-1			572933.720	ug/L	628564.297
	97	Mo	1.932894	2.228	4793.853	ug/L	1099.053
	107	Ag	0.161044	4.824	2155.518	ug/L	756.028
	111	Cd	0.315303	13.352	1016.046	ug/L	402.343
	123	Sb	-0.126454	20.519	4632.946	ug/L	5839.772
	135	Ba	286.600074	1.395	540424.354	ug/L	419.010
>	197	Au-1			779862.653	ug/L	871438.669
	205	Tl	0.369879	13.268	17926.774	ug/L	12873.293
	208	Pb	72.689062	0.339	1774266.098	ug/L	5892.860
	238	U	7.771209	0.759	186444.427	ug/L	4539.435
>	115	In-2			572933.720	ug/L	628564.297
	137	Ba	292.829179	0.955	930429.066	ug/L	677.690
>	197	Au-2			779862.653	ug/L	871438.669
	206	Pb	74.649298	0.704	452440.794	ug/L	1442.421
	207	Pb	71.702211	1.342	386064.006	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	128.638	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	100.339	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.150	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	89.491	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	91.150
|	Ba	137	
⌈>	Au-2	197	89.491
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P3
Sample Date/Time: Tuesday, April 13, 2010 06:44:29
Autosampler Position: 116
Dataset File: D:\Elandata\Dataset\041210M1\LW5P3.191

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			312937.598	ug/L	219065.440
	23	Na	136.537454	2.622	671198.712	ug/L	11860.377
	24	Mg	3372.325668	2.931	10712025.356	ug/L	3830.886
	27	Al	23364.414899	3.694	111072779.082	ug/L	6628.604
	39	K	847.466426	4.607	8221198.838	ug/L	716897.807
	44	Ca	13965.149069	1.261	4367739.934	ug/L	91324.351
	57	Fe	42073.580756	4.368	13086966.072	ug/L	12818.592
	9	Be	1.221514	1.540	637.021	ug/L	48.334
	51	V	69.911728	4.112	682122.281	ug/L	-30646.865
	52	Cr	43.029493	3.178	453348.546	ug/L	30184.830
	55	Mn	887.964527	2.215	13117068.278	ug/L	4011.938
	59	Co	21.544179	2.966	257860.788	ug/L	1537.098
	60	Ni	29.739714	0.677	83098.222	ug/L	860.035
>	72	Ge-1			327622.865	ug/L	321356.208
	65	Cu	34.284222	4.300	84152.180	ug/L	1104.721
	66	Zn	103.764176	2.413	148029.274	ug/L	5408.412
	75	As	21.393450	3.621	34229.201	ug/L	-1011.066
	82	Se	0.070579	226.814	52.883	ug/L	39.252
>	115	In-1			573103.839	ug/L	628564.297
	97	Mo	1.557935	1.230	4058.951	ug/L	1099.053
	107	Ag	0.209308	4.433	2596.262	ug/L	756.028
	111	Cd	0.055652	18.224	481.346	ug/L	402.343
	123	Sb	-0.351637	10.096	3404.067	ug/L	5839.772
	135	Ba	372.806481	2.821	702925.400	ug/L	419.010
>	197	Au-1			767270.629	ug/L	871438.669
	205	Tl	0.403387	4.607	18206.113	ug/L	12873.293
	208	Pb	48.097516	1.375	1156826.446	ug/L	5892.860
	238	U	3.570378	2.160	86433.624	ug/L	4539.435
>	115	In-2			573103.839	ug/L	628564.297
	137	Ba	375.187952	1.728	1192156.598	ug/L	677.690
>	197	Au-2			767270.629	ug/L	871438.669
	206	Pb	49.643606	1.644	296443.059	ug/L	1442.421
	207	Pb	45.770738	2.456	242890.083	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.851	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.950	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.177	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	88.045	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	91.177
|	Ba	137	
⌈>	Au-2	197	88.046
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P5
Sample Date/Time: Tuesday, April 13, 2010 06:49:01
Autosampler Position: 117
Dataset File: D:\Elandata\Dataset\041210M1\LW5P5.192

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			301541.458	ug/L	219065.440
	23	Na	91.090175	3.499	436927.445	ug/L	11860.377
	24	Mg	2724.553891	2.131	8342837.661	ug/L	3830.886
	27	Al	21433.241875	3.007	98225577.829	ug/L	6628.604
	39	K	775.198882	2.179	7333562.923	ug/L	716897.807
	44	Ca	5935.838013	1.448	1861471.315	ug/L	91324.351
	57	Fe	35032.701068	1.780	10509252.371	ug/L	12818.592
	9	Be	1.196320	5.171	602.352	ug/L	48.334
	51	V	71.616124	2.933	674308.277	ug/L	-30646.865
	52	Cr	34.633018	0.625	359832.279	ug/L	30184.830
	55	Mn	1148.669151	3.696	16349684.357	ug/L	4011.938
	59	Co	15.975249	1.062	184879.229	ug/L	1537.098
	60	Ni	27.938267	2.359	75293.690	ug/L	860.035
>	72	Ge-1			320184.980	ug/L	321356.208
	65	Cu	28.919089	0.028	69556.287	ug/L	1104.721
	66	Zn	76.833222	0.750	108527.090	ug/L	5408.412
	75	As	19.031360	2.631	29651.785	ug/L	-1011.066
	82	Se	0.241402	115.298	81.963	ug/L	39.252
>	115	In-1			553544.932	ug/L	628564.297
	97	Mo	1.817854	1.036	4413.059	ug/L	1099.053
	107	Ag	0.198273	1.977	2409.894	ug/L	756.028
	111	Cd	0.044763	21.713	443.345	ug/L	402.343
	123	Sb	-0.439300	5.750	2827.546	ug/L	5839.772
	135	Ba	335.957291	2.444	611992.792	ug/L	419.010
>	197	Au-1			775997.502	ug/L	871438.669
	205	Tl	0.261227	7.403	15959.403	ug/L	12873.293
	208	Pb	39.074298	1.741	951268.989	ug/L	5892.860
	238	U	3.380857	2.728	82967.416	ug/L	4539.435
>	115	In-2			553544.932	ug/L	628564.297
	137	Ba	341.628507	2.107	1048649.560	ug/L	677.690
>	197	Au-2			775997.502	ug/L	871438.669
	206	Pb	40.917891	1.616	247315.047	ug/L	1442.421
	207	Pb	36.879228	2.678	198167.656	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	137.649	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.636	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.085	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.065
	Ba	137	
>	Au-2	197	89.048
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 06:53:33
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.193

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			203176.607	ug/L	219065.440
	23	Na	3596.606972	2.480	11202033.044	ug/L	11860.377
	24	Mg	7334.705625	1.693	15128276.193	ug/L	3830.886
	27	Al	3741.874689	1.106	11561043.291	ug/L	6628.604
	39	K	3753.728314	0.788	21374496.103	ug/L	716897.807
	44	Ca	7964.058824	1.792	1653672.095	ug/L	91324.351
	57	Fe	7920.777505	1.746	1610074.079	ug/L	12818.592
	9	Be	1006.073236	0.974	303744.303	ug/L	48.334
	51	V	909.785730	1.398	6105942.254	ug/L	-30646.865
	52	Cr	920.593306	2.947	5728196.951	ug/L	30184.830
	55	Mn	953.228485	2.490	9142127.345	ug/L	4011.938
	59	Co	942.865672	0.975	7269581.779	ug/L	1537.098
	60	Ni	962.096844	1.132	1720510.831	ug/L	860.035
>	72	Ge-1			278301.631	ug/L	321356.208
	65	Cu	963.318508	1.329	1983169.498	ug/L	1104.721
	66	Zn	966.675196	1.463	1132719.705	ug/L	5408.412
	75	As	957.006266	1.104	1338995.912	ug/L	-1011.066
	82	Se	978.219743	2.367	150672.080	ug/L	39.252
>	115	In-1			528868.095	ug/L	628564.297
	97	Mo	990.287988	3.002	1793599.923	ug/L	1099.053
	107	Ag	197.238208	3.591	1657781.376	ug/L	756.028
	111	Cd	995.502636	1.097	1893343.670	ug/L	402.343
	123	Sb	490.602522	1.361	2474514.260	ug/L	5839.772
	135	Ba	983.911235	0.429	1711913.903	ug/L	419.010
>	197	Au-1			776441.057	ug/L	871438.669
	205	Tl	955.014599	0.432	16472571.643	ug/L	12873.293
	208	Pb	973.955232	1.243	23602007.369	ug/L	5892.860
	238	U	994.345573	1.920	23233137.020	ug/L	4539.435
>	115	In-2			528868.095	ug/L	628564.297
	137	Ba	990.199052	2.064	2902657.557	ug/L	677.690
>	197	Au-2			776441.057	ug/L	871438.669
	206	Pb	980.230532	2.859	5898715.915	ug/L	1442.421
	207	Pb	1010.279957	1.408	5399962.790	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.747	
	Na	23		89.815
	Mg	24		91.684
	Al	27		93.547
	K	39		93.843
	Ca	44		99.551
	Fe	57		99.010
	Be	9		100.607
	V	51		90.979
	Cr	52		92.059
	Mn	55		95.323
	Co	59		94.287
	Ni	60		96.210
>	Ge-1	72	86.802	
	Cu	65		96.332
	Zn	66		96.668
	As	75		95.701
	Se	82		97.822
>	In-1	115	84.139	
	Mo	97		99.029
	Ag	107		98.619
	Cd	111		99.550
	Sb	123		98.121
	Ba	135		98.391
>	Au-1	197	89.099	

!	Tl	205		95.501
|	Pb	208		97.396
L	U	238		99.435
⌈>	In-2	115	84.139	
L	Ba	137		99.020
⌈>	Au-2	197	89.099	
!	Pb	206		98.023
L	Pb	207		101.028

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 06:58:35
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.194

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			190531.595	ug/L	219065.440
	23	Na	1.225496	50.151	13898.313	ug/L	11860.377
	24	Mg	2.613658	43.821	8393.337	ug/L	3830.886
	27	Al	3.540044	47.095	16033.727	ug/L	6628.604
	39	K	6.290084	21.398	655991.129	ug/L	716897.807
	44	Ca	0.433078	1726.472	79495.029	ug/L	91324.351
	57	Fe	7.346639	37.200	12537.053	ug/L	12818.592
	9	Be	0.232659	26.068	108.001	ug/L	48.334
	51	V	1.285787	137.774	-18598.613	ug/L	-30646.865
	52	Cr	-0.296441	18.262	24528.953	ug/L	30184.830
	55	Mn	0.369346	50.629	6815.763	ug/L	4011.938
	59	Co	0.240695	48.429	3079.047	ug/L	1537.098
	60	Ni	0.224614	52.349	1125.723	ug/L	860.035
>	72	Ge-1			282542.604	ug/L	321356.208
	65	Cu	0.201864	72.054	1387.416	ug/L	1104.721
	66	Zn	-0.025516	734.799	4719.160	ug/L	5408.412
	75	As	0.899749	39.794	403.307	ug/L	-1011.066
	82	Se	0.565470	50.500	123.586	ug/L	39.252
>	115	In-1			529676.256	ug/L	628564.297
	97	Mo	0.903996	44.350	2569.937	ug/L	1099.053
	107	Ag	0.055004	55.827	1102.055	ug/L	756.028
	111	Cd	0.245027	47.562	807.032	ug/L	402.343
	123	Sb	1.888069	43.814	14466.937	ug/L	5839.772
	135	Ba	0.211185	67.697	722.694	ug/L	419.010
>	197	Au-1			782878.601	ug/L	871438.669
	205	Tl	1.463350	42.932	36884.359	ug/L	12873.293
	208	Pb	0.253018	56.703	11436.320	ug/L	5892.860
	238	U	0.285798	57.394	10767.138	ug/L	4539.435
>	115	In-2			529676.256	ug/L	628564.297
	137	Ba	0.238900	46.440	1274.406	ug/L	677.690
>	197	Au-2			782878.601	ug/L	871438.669
	206	Pb	0.257223	58.906	2846.329	ug/L	1442.421
	207	Pb	0.248840	60.628	2590.274	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	86.975	
	Na	23		122.550
	Mg	24		261.386
	Al	27		354.004
	K	39		629.008
	Ca	44		43.308
	Fe	57		734.664
	Be	9		23.268
	V	51		128.579
	Cr	52		-29.644
	Mn	55		36.935
	Co	59		24.070
	Ni	60		22.461
>	Ge-1	72	87.922	
	Cu	65		20.186
	Zn	66		-2.552
	As	75		89.975
	Se	82		56.547
>	In-1	115	84.268	
	Mo	97		90.400
	Ag	107		5.500
	Cd	111		24.503
	Sb	123		188.807
	Ba	135		21.119
>	Au-1	197	[illegible]	

¦	Tl	205		146.335
¦	Pb	208		25.302
L	U	238		28.580
Γ>	In-2	115	84.268	
L	Ba	137		23.890
Γ>	Au-2	197	89.837	
¦	Pb	206		25.722
L	Pb	207		24.884

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
Sb	123	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P7
Sample Date/Time: Tuesday, April 13, 2010 07:03:37
Autosampler Position: 118
Dataset File: D:\Elandata\Dataset\041210M1\LW5P7.195

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			307197.585	ug/L	219065.440
|	23	Na	67.644949	2.155	334851.224	ug/L	11860.377
|	24	Mg	2989.883357	0.404	9327698.318	ug/L	3830.886
|	27	Al	22458.352140	1.604	104849577.367	ug/L	6628.604
|	39	K	1082.117078	1.541	10030071.077	ug/L	716897.807
|	44	Ca	6955.591671	3.909	2199285.079	ug/L	91324.351
|	57	Fe	45827.397028	0.967	14000406.489	ug/L	12818.592
|	9	Be	1.305788	3.671	664.022	ug/L	48.334
|	51	V	83.589031	0.775	809134.957	ug/L	-30646.865
|	52	Cr	58.103261	1.473	586339.505	ug/L	30184.830
|	55	Mn	1614.585982	1.640	23412837.347	ug/L	4011.938
|	59	Co	21.272670	1.012	250116.754	ug/L	1537.098
⌊	60	Ni	31.314710	2.103	85830.298	ug/L	860.035
⌈>	72	Ge-1			311101.712	ug/L	321356.208
|	65	Cu	38.609013	2.373	89849.598	ug/L	1104.721
|	66	Zn	118.273391	1.402	159479.179	ug/L	5408.412
|	75	As	31.055727	4.242	47629.985	ug/L	-1011.066
⌊	82	Se	1.194897	45.198	243.870	ug/L	39.252
⌈>	115	In-1			551451.606	ug/L	628564.297
|	97	Mo	2.988537	3.891	6608.263	ug/L	1099.053
|	107	Ag	0.213010	6.765	2529.916	ug/L	756.028
|	111	Cd	0.209454	2.255	768.362	ug/L	402.343
|	123	Sb	0.588912	36.284	8203.454	ug/L	5839.772
⌊	135	Ba	431.780158	3.185	783247.275	ug/L	419.010
⌈>	197	Au-1			776177.963	ug/L	871438.669
|	205	Tl	0.913589	15.663	27195.923	ug/L	12873.293
|	208	Pb	58.544172	1.240	1423097.462	ug/L	5892.860
⌊	238	U	5.769299	1.426	138776.887	ug/L	4539.435
⌈>	115	In-2			551451.606	ug/L	628564.297
⌊	137	Ba	440.030146	2.918	1345059.099	ug/L	677.690
⌈>	197	Au-2			776177.963	ug/L	871438.669
|	206	Pb	61.014077	1.630	368240.124	ug/L	1442.421
⌊	207	Pb	56.088569	1.849	300862.685	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	140.231	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	96.809	
|	Cu	65		
|	Zn	66		
|	As	75		
⌊	Se	82		
⌈>	In-1	115	87.732	
|	Mo	97		
|	Ag	107		
|	Cd	111		
|	Sb	123		
⌊	Ba	135		
⌈>	Au-1	197	89.069	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	87.732
|	Ba	137	
⌈>	Au-2	197	89.069
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P9
Sample Date/Time: Tuesday, April 13, 2010 07:08:09
Autosampler Position: 119
Dataset File: D:\Elandata\Dataset\041210M1\LW5P9.196

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			290048.021	ug/L	219065.440
	23	Na	83.202668	3.682	385264.805	ug/L	11860.377
	24	Mg	3092.076942	3.165	9106682.245	ug/L	3830.886
	27	Al	21723.761469	0.488	95768780.701	ug/L	6628.604
	39	K	1165.682894	1.968	10128021.982	ug/L	716897.807
	44	Ca	8059.150421	0.721	2387426.853	ug/L	91324.351
	57	Fe	35495.906740	3.443	10241703.646	ug/L	12818.592
	9	Be	1.069602	1.101	525.015	ug/L	48.334
	51	V	61.541596	0.939	551698.043	ug/L	-30646.865
	52	Cr	38.996470	3.322	384635.258	ug/L	30184.830
	55	Mn	977.944049	2.110	13391677.137	ug/L	4011.938
	59	Co	21.393778	2.077	237445.077	ug/L	1537.098
	60	Ni	30.070683	4.202	77850.459	ug/L	860.035
>	72	Ge-1			319822.689	ug/L	321356.208
	65	Cu	34.477826	2.966	82613.105	ug/L	1104.721
	66	Zn	124.401282	1.173	172185.221	ug/L	5408.412
	75	As	18.981069	1.765	29533.002	ug/L	-1011.066
	82	Se	0.640869	32.598	152.677	ug/L	39.252
>	115	In-1			565942.674	ug/L	628564.297
	97	Mo	1.778580	3.217	4436.067	ug/L	1099.053
	107	Ag	0.185837	7.815	2352.218	ug/L	756.028
	111	Cd	0.248585	11.015	868.368	ug/L	402.343
	123	Sb	-0.014037	634.497	5179.245	ug/L	5839.772
	135	Ba	349.735534	2.421	651299.202	ug/L	419.010
>	197	Au-1			770423.828	ug/L	871438.669
	205	Tl	0.511742	5.250	20128.038	ug/L	12873.293
	208	Pb	50.217298	2.995	1212096.249	ug/L	5892.860
	238	U	6.517214	4.056	155035.177	ug/L	4539.435
>	115	In-2			565942.674	ug/L	628564.297
	137	Ba	346.866729	1.515	1088527.403	ug/L	677.690
>	197	Au-2			770423.828	ug/L	871438.669
	206	Pb	52.639684	2.885	315463.671	ug/L	1442.421
	207	Pb	48.090277	4.417	256063.666	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	132.402	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.523	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.037	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	[illegible]	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	90.037
	Ba	137	
>	Au-2	197	88.408
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5QC
Sample Date/Time: Tuesday, April 13, 2010 07:12:40
Autosampler Position: 120
Dataset File: D:\Elandata\Dataset\041210M1\LW5QC.197

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			295487.800	ug/L	219065.440
23	Na	140.468814	4.567	651311.780	ug/L	11860.377
24	Mg	3008.752824	2.061	9026314.556	ug/L	3830.886
27	Al	22456.476458	0.955	100871938.413	ug/L	6628.604
39	K	872.339324	1.206	7964940.152	ug/L	716897.807
44	Ca	8555.553103	1.839	2573968.456	ug/L	91324.351
57	Fe	38113.959018	2.999	11199924.775	ug/L	12818.592
9	Be	1.084346	0.893	541.349	ug/L	48.334
51	V	70.880948	3.240	653341.499	ug/L	-30646.865
52	Cr	33.183150	2.650	339433.567	ug/L	30184.830
55	Mn	1204.956587	2.746	16804208.452	ug/L	4011.938
59	Co	18.222709	2.702	206326.151	ug/L	1537.098
60	Ni	27.859389	1.050	73587.519	ug/L	860.035
72	Ge-1			322361.738	ug/L	321356.208
65	Cu	33.759760	3.058	81543.944	ug/L	1104.721
66	Zn	89.259974	1.394	126045.220	ug/L	5408.412
75	As	19.031320	2.319	29849.962	ug/L	-1011.066
82	Se	0.481695	21.592	125.446	ug/L	39.252
115	In-1			550249.885	ug/L	628564.297
97	Mo	1.383536	2.933	3568.148	ug/L	1099.053
107	Ag	0.205546	6.335	2458.236	ug/L	756.028
111	Cd	0.050194	20.853	451.678	ug/L	402.343
123	Sb	-0.209764	13.425	4013.752	ug/L	5839.772
135	Ba	425.619105	0.808	770649.348	ug/L	419.010
197	Au-1			766017.140	ug/L	871438.669
205	Tl	0.432173	3.755	18665.041	ug/L	12873.293
208	Pb	58.726561	1.613	1408989.654	ug/L	5892.860
238	U	3.622825	2.686	87492.374	ug/L	4539.435
115	In-2			550249.885	ug/L	628564.297
137	Ba	423.945799	1.510	1293400.641	ug/L	677.690
197	Au-2			766017.140	ug/L	871438.669
206	Pb	61.022411	3.217	363524.632	ug/L	1442.421
207	Pb	56.537181	1.393	299270.430	ug/L	1401.083

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	134.886	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	100.313	
Cu	65		
Zn	66		
As	75		
Se	82		
In-1	115	87.541	
Mo	97		
Ag	107		
Cd	111		
Sb	123		
Ba	135		
Au-1	197	87.903	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	87.541
	Ba	137	
>	Au-2	197	87.903
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EL
Sample Date/Time: Tuesday, April 13, 2010 07:17:13
Autosampler Position: 121
Dataset File: D:\Elandata\Dataset\041210M1\LW7EL.198

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			311309.850	ug/L	219065.440
	23	Na	108.661602	3.398	534897.810	ug/L	11860.377
	24	Mg	2982.436894	3.473	9426802.698	ug/L	3830.886
	27	Al	23958.772535	3.540	113338644.066	ug/L	6628.604
	39	K	913.270791	3.884	8736264.825	ug/L	716897.807
	44	Ca	6474.681032	3.472	2083813.404	ug/L	91324.351
	57	Fe	38406.202989	2.536	11893262.972	ug/L	12818.592
	9	Be	1.161048	12.430	605.686	ug/L	48.334
	51	V	68.125050	2.931	660260.283	ug/L	-30646.865
	52	Cr	33.644576	1.743	362138.185	ug/L	30184.830
	55	Mn	1115.836262	3.514	16396483.347	ug/L	4011.938
	59	Co	19.505429	2.401	232542.117	ug/L	1537.098
	60	Ni	25.728899	4.743	71668.876	ug/L	860.035
>	72	Ge-1			317910.913	ug/L	321356.208
	65	Cu	35.040251	3.005	83451.018	ug/L	1104.721
	66	Zn	101.842758	0.203	141094.079	ug/L	5408.412
	75	As	20.340973	3.867	31533.419	ug/L	-1011.066
	82	Se	0.510963	16.825	128.736	ug/L	39.252
>	115	In-1			552024.678	ug/L	628564.297
	97	Mo	1.519627	9.057	3833.553	ug/L	1099.053
	107	Ag	0.191704	5.006	2344.216	ug/L	756.028
	111	Cd	0.010022	175.677	372.675	ug/L	402.343
	123	Sb	-0.277989	10.809	3665.369	ug/L	5839.772
	135	Ba	411.336073	3.893	746962.617	ug/L	419.010
>	197	Au-1			764734.902	ug/L	871438.669
	205	Tl	0.405732	2.684	18184.421	ug/L	12873.293
	208	Pb	46.142831	1.961	1105973.142	ug/L	5892.860
	238	U	3.408824	1.248	82412.561	ug/L	4539.435
>	115	In-2			552024.678	ug/L	628564.297
	137	Ba	407.838052	4.006	1247678.625	ug/L	677.690
>	197	Au-2			764734.902	ug/L	871438.669
	206	Pb	48.091777	0.863	286241.256	ug/L	1442.421
	207	Pb	44.493854	1.984	235306.676	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.108	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.928	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.823	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.755	

|	Tl	205	
|	Pb	208	
L	U	238	
⌈>	In-2	115	87.823
L	Ba	137	
⌈>	Au-2	197	87.755
|	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ER
Sample Date/Time: Tuesday, April 13, 2010 07:21:45
Autosampler Position: 122
Dataset File: D:\Elandata\Dataset\041210M1\LW7ER.199

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			312611.278	ug/L	219065.440
	23	Na	98.183127	1.175	486972.532	ug/L	11860.377
	24	Mg	3208.508714	1.793	10184572.561	ug/L	3830.886
	27	Al	25455.057088	2.288	120941712.617	ug/L	6628.604
	39	K	999.644940	2.817	9507291.764	ug/L	716897.807
	44	Ca	9834.557239	1.091	3111294.626	ug/L	91324.351
	57	Fe	39153.037511	1.947	12173806.223	ug/L	12818.592
	9	Be	1.126789	1.168	592.352	ug/L	48.334
	51	V	65.386847	2.244	634398.859	ug/L	-30646.865
	52	Cr	36.678604	1.301	392506.373	ug/L	30184.830
	55	Mn	875.814402	3.003	12926474.938	ug/L	4011.938
	59	Co	14.430416	2.477	173376.326	ug/L	1537.098
	60	Ni	28.328732	1.185	79146.173	ug/L	860.035
>	72	Ge-1			319266.973	ug/L	321356.208
	65	Cu	37.806184	0.101	90333.659	ug/L	1104.721
	66	Zn	115.319615	2.791	159710.710	ug/L	5408.412
	75	As	19.271581	4.076	29958.472	ug/L	-1011.066
	82	Se	0.101001	27.591	56.844	ug/L	39.252
>	115	In-1			551326.899	ug/L	628564.297
	97	Mo	1.260558	3.439	3342.758	ug/L	1099.053
	107	Ag	0.203420	4.791	2444.567	ug/L	756.028
	111	Cd	0.028596	62.365	409.343	ug/L	402.343
	123	Sb	-0.338466	1.290	3346.172	ug/L	5839.772
	135	Ba	445.991943	2.453	808968.351	ug/L	419.010
>	197	Au-1			775130.936	ug/L	871438.669
	205	Tl	0.312299	3.099	16825.072	ug/L	12873.293
	208	Pb	39.716137	0.829	965963.191	ug/L	5892.860
	238	U	3.174302	2.271	78074.922	ug/L	4539.435
>	115	In-2			551326.899	ug/L	628564.297
	137	Ba	441.663687	0.958	1350166.659	ug/L	677.690
>	197	Au-2			775130.936	ug/L	871438.669
	206	Pb	41.482846	0.670	250469.910	ug/L	1442.421
	207	Pb	37.531846	2.018	201469.092	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.702	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.350	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	87.712	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	88.948	

|	Tl	205	
|	Pb	208	
_	U	238	
⌈>	In-2	115	87.712
⌊	Ba	137	
⌈>	Au-2	197	88.948
|	Pb	206	
⌊	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EW
Sample Date/Time: Tuesday, April 13, 2010 07:26:16
Autosampler Position: 123
Dataset File: D:\Elandata\Dataset\041210M1\LW7EW.200

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			311516.594	ug/L	219065.440
	23	Na	133.622047	3.654	654067.777	ug/L	11860.377
	24	Mg	4012.303403	2.629	12687210.307	ug/L	3830.886
	27	Al	24644.989003	2.388	116651556.294	ug/L	6628.604
	39	K	1076.390285	6.143	10116735.834	ug/L	716897.807
	44	Ca	8895.755300	2.494	2815905.497	ug/L	91324.351
	57	Fe	40435.223779	5.380	12518881.037	ug/L	12818.592
	9	Be	1.160846	4.520	605.686	ug/L	48.334
	51	V	84.653794	2.309	831179.148	ug/L	-30646.865
	52	Cr	41.407939	2.846	435864.959	ug/L	30184.830
	55	Mn	1139.433310	3.414	16749395.360	ug/L	4011.938
	59	Co	17.190807	2.943	205278.531	ug/L	1537.098
	60	Ni	33.214154	2.100	92222.980	ug/L	860.035
>	72	Ge-1			325725.799	ug/L	321356.208
	65	Cu	39.668476	5.438	96544.884	ug/L	1104.721
	66	Zn	114.001043	2.565	161090.805	ug/L	5408.412
	75	As	23.311072	3.262	37200.015	ug/L	-1011.066
	82	Se	0.314477	69.820	96.061	ug/L	39.252
>	115	In-1			555225.190	ug/L	628564.297
	97	Mo	1.969293	1.185	4714.158	ug/L	1099.053
	107	Ag	0.210421	1.297	2524.248	ug/L	756.028
	111	Cd	0.008491	147.395	372.342	ug/L	402.343
	123	Sb	-0.309590	5.503	3521.902	ug/L	5839.772
	135	Ba	426.137173	1.445	778645.781	ug/L	419.010
>	197	Au-1			759251.689	ug/L	871438.669
	205	Tl	0.274347	1.511	15839.935	ug/L	12873.293
	208	Pb	46.676838	1.688	1110981.729	ug/L	5892.860
	238	U	3.435368	0.899	82449.773	ug/L	4539.435
>	115	In-2			555225.190	ug/L	628564.297
	137	Ba	432.275929	0.718	1330889.607	ug/L	677.690
>	197	Au-2			759251.689	ug/L	871438.669
	206	Pb	47.605598	0.305	281363.597	ug/L	1442.421
	207	Pb	44.908491	3.643	235820.512	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	142.203	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.360	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.332	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	87.128	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.332
	Ba	137	
>	Au-2	197	87.126
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EX
Sample Date/Time: Tuesday, April 13, 2010 07:30:47
Autosampler Position: 124
Dataset File: D:\Elandata\Dataset\041210M1\LW7EX.201

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			276462.367	ug/L	219065.440
	23	Na	96.247655	0.117	422508.087	ug/L	11860.377
	24	Mg	4031.358914	1.858	11315656.942	ug/L	3830.886
	27	Al	18442.912857	1.713	77492217.474	ug/L	6628.604
	39	K	1259.310432	3.287	10355765.578	ug/L	716897.807
	44	Ca	21659.630891	1.470	5921214.447	ug/L	91324.351
	57	Fe	30849.334680	0.976	8488064.866	ug/L	12818.592
	9	Be	1.063462	7.998	497.680	ug/L	48.334
	51	V	57.330814	1.867	487305.037	ug/L	-30646.865
	52	Cr	29.092523	4.154	283199.898	ug/L	30184.830
	55	Mn	990.841118	1.300	12934303.486	ug/L	4011.938
	59	Co	14.154898	1.387	150408.906	ug/L	1537.098
	60	Ni	24.401080	3.081	60424.491	ug/L	860.035
>	72	Ge-1			314201.494	ug/L	321356.208
	65	Cu	28.832826	2.774	68043.714	ug/L	1104.721
	66	Zn	137.514842	2.987	186397.947	ug/L	5408.412
	75	As	15.950789	5.623	24236.529	ug/L	-1011.066
	82	Se	0.969096	20.778	207.162	ug/L	39.252
>	115	In-1			556795.720	ug/L	628564.297
	97	Mo	1.254263	6.319	3364.430	ug/L	1099.053
	107	Ag	0.151422	5.071	2009.828	ug/L	756.028
	111	Cd	0.231808	7.517	820.365	ug/L	402.343
	123	Sb	-0.343300	5.399	3352.720	ug/L	5839.772
	135	Ba	294.859965	2.228	540289.072	ug/L	419.010
>	197	Au-1			783546.597	ug/L	871438.669
	205	Tl	0.066979	8.203	12739.473	ug/L	12873.293
	208	Pb	46.769523	1.986	1148769.918	ug/L	5892.860
	238	U	5.325703	0.908	129645.950	ug/L	4539.435
>	115	In-2			556795.720	ug/L	628564.297
	137	Ba	299.374636	3.087	924241.051	ug/L	677.690
>	197	Au-2			783546.597	ug/L	871438.669
	206	Pb	48.147320	1.524	293629.526	ug/L	1442.421
	207	Pb	44.856184	4.315	243113.882	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	126.201	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.774	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.582	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	89.914	

	Tl	205	
	Pb	208	
	U	238	
>	In-2	115	88.582
	Ba	137	
>	Au-2	197	89.914
	Pb	206	
	Pb	207	

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E1
Sample Date/Time: Tuesday, April 13, 2010 07:35:19
Autosampler Position: 125
Dataset File: D:\Elandata\Dataset\041210M1\LW7E1.202

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			308262.018	ug/L	219065.440
	23	Na	103.738360	3.007	506406.428	ug/L	11860.377
	24	Mg	3130.507411	1.503	9801007.563	ug/L	3830.886
	27	Al	20813.341413	0.734	97526861.988	ug/L	6628.604
	39	K	873.015020	1.118	8316231.939	ug/L	716897.807
	44	Ca	10937.635710	0.557	3397753.127	ug/L	91324.351
	57	Fe	51100.656624	2.795	15659886.365	ug/L	12818.592
	9	Be	1.467391	6.188	739.693	ug/L	48.334
	51	V	78.112544	1.970	756048.401	ug/L	-30646.865
	52	Cr	41.714714	4.652	434199.202	ug/L	30184.830
	55	Mn	946.213495	2.950	13768914.199	ug/L	4011.938
	59	Co	18.218294	3.520	215164.847	ug/L	1537.098
	60	Ni	34.889178	4.633	95790.596	ug/L	860.035
>	72	Ge-1			328002.922	ug/L	321356.208
	65	Cu	83.793471	1.988	204308.372	ug/L	1104.721
	66	Zn	115.035659	1.039	163704.673	ug/L	5408.412
	75	As	31.682248	0.382	51249.244	ug/L	-1011.066
	82	Se	0.562392	76.142	141.970	ug/L	39.252
>	115	In-1			567529.305	ug/L	628564.297
	97	Mo	3.071152	4.774	6957.765	ug/L	1099.053
	107	Ag	0.229186	4.541	2748.959	ug/L	756.028
	111	Cd	0.158735	7.296	687.023	ug/L	402.343
	123	Sb	0.144071	13.239	6051.039	ug/L	5839.772
	135	Ba	355.383608	1.151	663700.493	ug/L	419.010
>	197	Au-1			767825.669	ug/L	871438.669
	205	Tl	0.169950	6.083	14238.234	ug/L	12873.293
	208	Pb	51.409184	1.567	1236878.360	ug/L	5892.860
	238	U	6.012034	2.608	142893.682	ug/L	4539.435
>	115	In-2			567529.305	ug/L	628564.297
	137	Ba	364.722270	2.010	1147769.934	ug/L	677.690
>	197	Au-2			767825.669	ug/L	871438.669
	206	Pb	53.262533	3.232	318136.027	ug/L	1442.421
	207	Pb	49.032277	1.618	260288.555	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	140.717	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.068	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	90.290	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	88.110	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	90.290
|	Ba	137	
⌈>	Au-2	197	88.110
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Sc-1	45	
Al	27	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E2
Sample Date/Time: Tuesday, April 13, 2010 07:39:50
Autosampler Position: 126
Dataset File: D:\Elandata\Dataset\041210M1\LW7E2.203

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			296325.365	ug/L	219065.440
	23	Na	111.084441	0.173	520203.203	ug/L	11860.377
	24	Mg	3098.343566	3.462	9323752.541	ug/L	3830.886
	27	Al	22882.252313	1.468	103061384.917	ug/L	6628.604
	39	K	1220.874995	1.967	10792598.668	ug/L	716897.807
	44	Ca	11786.636752	1.931	3510223.983	ug/L	91324.351
	57	Fe	42544.292337	2.426	12539276.565	ug/L	12818.592
	9	Be	1.294481	1.275	635.354	ug/L	48.334
	51	V	77.076034	2.760	716421.795	ug/L	-30646.865
	52	Cr	36.182029	2.036	367581.094	ug/L	30184.830
	55	Mn	1153.764150	1.147	16142161.560	ug/L	4011.938
	59	Co	18.934762	4.433	214951.435	ug/L	1537.098
	60	Ni	28.712205	2.504	76017.218	ug/L	860.035
>	72	Ge-1			320638.119	ug/L	321356.208
	65	Cu	34.386130	2.609	82571.467	ug/L	1104.721
	66	Zn	110.211495	2.044	153526.924	ug/L	5408.412
	75	As	27.487892	0.084	43334.584	ug/L	-1011.066
	82	Se	0.694403	57.862	160.812	ug/L	39.252
>	115	In-1			557136.955	ug/L	628564.297
	97	Mo	1.948678	2.981	4690.150	ug/L	1099.053
	107	Ag	0.214752	8.622	2569.590	ug/L	756.028
	111	Cd	0.196851	6.693	750.694	ug/L	402.343
	123	Sb	-0.210030	4.088	4061.954	ug/L	5839.772
	135	Ba	380.696578	1.246	697921.315	ug/L	419.010
>	197	Au-1			794431.818	ug/L	871438.669
	205	Tl	0.149186	2.160	14366.364	ug/L	12873.293
	208	Pb	50.590986	1.264	1259512.489	ug/L	5892.860
	238	U	5.745925	1.506	141499.506	ug/L	4539.435
>	115	In-2			557136.955	ug/L	628564.297
	137	Ba	388.430083	0.772	1200087.840	ug/L	677.690
>	197	Au-2			794431.818	ug/L	871438.669
	206	Pb	53.244210	2.017	329072.445	ug/L	1442.421
	207	Pb	48.662971	2.094	267304.969	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	135.268	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.777	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	88.636	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	91.163	

|	Tl	205	
|	Pb	208	
|	U	238	
⌈>	In-2	115	88.636
|	Ba	137	
⌈>	Au-2	197	91.163
|	Pb	206	
|	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E3
Sample Date/Time: Tuesday, April 13, 2010 07:44:22
Autosampler Position: 127
Dataset File: D:\Elandata\Dataset\041210M1\LW7E3.204

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			301539.224	ug/L	219065.440
	23	Na	147.984749	1.139	699751.929	ug/L	11860.377
	24	Mg	3006.043904	0.788	9205329.953	ug/L	3830.886
	27	Al	19474.606472	1.664	89260207.286	ug/L	6628.604
	39	K	1049.209191	0.327	9577207.924	ug/L	716897.807
	44	Ca	10497.239716	1.684	3194846.685	ug/L	91324.351
	57	Fe	38048.713378	3.336	11415264.500	ug/L	12818.592
	9	Be	1.085894	4.772	553.016	ug/L	48.334
	51	V	67.751249	1.413	635760.988	ug/L	-30646.865
	52	Cr	30.856292	2.967	325109.201	ug/L	30184.830
	55	Mn	2691.641056	3.202	38317827.634	ug/L	4011.938
	59	Co	26.302384	0.977	303026.946	ug/L	1537.098
	60	Ni	31.414566	2.548	84525.615	ug/L	860.035
>	72	Ge-1			330253.348	ug/L	321356.208
	65	Cu	33.645271	1.199	83283.921	ug/L	1104.721
	66	Zn	115.614798	0.409	165641.087	ug/L	5408.412
	75	As	22.787742	1.949	36824.285	ug/L	-1011.066
	82	Se	0.785679	52.439	183.811	ug/L	39.252
>	115	In-1			576929.403	ug/L	628564.297
	97	Mo	2.156466	2.780	5268.691	ug/L	1099.053
	107	Ag	0.182359	3.594	2365.886	ug/L	756.028
	111	Cd	0.300945	8.772	993.378	ug/L	402.343
	123	Sb	-0.326549	1.610	3566.605	ug/L	5839.772
	135	Ba	533.932635	1.220	1013524.078	ug/L	419.010
>	197	Au-1			788901.226	ug/L	871438.669
	205	Tl	0.162403	3.872	14496.831	ug/L	12873.293
	208	Pb	64.681526	2.776	1597164.969	ug/L	5892.860
	238	U	7.866529	2.885	190814.465	ug/L	4539.435
>	115	In-2			576929.403	ug/L	628564.297
	137	Ba	531.322417	3.158	1699377.787	ug/L	677.690
>	197	Au-2			788901.226	ug/L	871438.669
	206	Pb	67.974118	2.675	416744.630	ug/L	1442.421
	207	Pb	62.292997	4.120	339290.731	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	137.648	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.769	
	Cu	65		
	Zn	66		
	As	75		
	Se	82		
>	In-1	115	91.785	
	Mo	97		
	Ag	107		
	Cd	111		
	Sb	123		
	Ba	135		
>	Au-1	197	90.529	

¦	Tl	205	
¦	Pb	208	
L	U	238	
Γ>	In-2	115	91.785
L	Ba	137	
Γ>	Au-2	197	90.529
¦	Pb	206	
L	Pb	207	

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 07:48:54
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 6.205

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			201822.118	ug/L	219065.440
	23	Na	3642.874308	4.108	11264438.045	ug/L	11860.377
	24	Mg	7534.188084	4.944	15425415.206	ug/L	3830.886
	27	Al	3817.954248	1.450	11714504.004	ug/L	6628.604
	39	K	3861.080723	4.074	21806347.091	ug/L	716897.807
	44	Ca	8217.588245	1.963	1692534.001	ug/L	91324.351
	57	Fe	8173.679265	5.307	1649075.566	ug/L	12818.592
	9	Be	1026.719349	3.687	307773.203	ug/L	48.334
	51	V	915.324092	1.966	6100057.146	ug/L	-30646.865
	52	Cr	946.089827	3.205	5844775.617	ug/L	30184.830
	55	Mn	972.272673	3.962	9259577.657	ug/L	4011.938
	59	Co	957.558137	4.033	7329264.446	ug/L	1537.098
	60	Ni	951.559113	2.817	1689688.893	ug/L	860.035
>	72	Ge-1			278739.773	ug/L	321356.208
	65	Cu	968.019763	0.616	1995702.595	ug/L	1104.721
	66	Zn	981.236854	1.312	1151288.899	ug/L	5408.412
	75	As	964.143119	0.573	1351181.293	ug/L	-1011.066
	82	Se	997.921525	1.440	153973.383	ug/L	39.252
>	115	In-1			532929.587	ug/L	628564.297
	97	Mo	1000.862241	3.106	1825781.856	ug/L	1099.053
	107	Ag	196.898127	2.788	1667056.955	ug/L	756.028
	111	Cd	986.192680	1.145	1890300.240	ug/L	402.343
	123	Sb	493.360118	3.845	2505436.168	ug/L	5839.772
	135	Ba	999.643655	4.791	1750803.827	ug/L	419.010
>	197	Au-1			777202.361	ug/L	871438.669
	205	Tl	997.493860	0.790	17221912.320	ug/L	12873.293
	208	Pb	995.915236	2.429	24154961.229	ug/L	5892.860
	238	U	1015.323979	3.747	23742451.849	ug/L	4539.435
>	115	In-2			532929.587	ug/L	628564.297
	137	Ba	1001.257525	5.599	2954367.457	ug/L	677.690
>	197	Au-2			777202.361	ug/L	871438.669
	206	Pb	998.241127	2.234	6012633.403	ug/L	1442.421
	207	Pb	1007.140345	4.761	5386648.225	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.129	
	Na	23		91.072
	Mg	24		94.177
	Al	27		95.449
	K	39		96.527
	Ca	44		102.720
	Fe	57		102.171
	Be	9		102.872
	V	51		91.532
	Cr	52		94.609
	Mn	55		97.227
	Co	59		95.758
	Ni	60		95.156
>	Ge-1	72	86.739	
	Cu	65		96.802
	Zn	66		98.124
	As	75		96.414
	Se	82		99.792
>	In-1	115	84.785	
	Mo	97		100.086
	Ag	107		98.449
	Cd	111		98.619
	Sb	123		98.872
	Ba	135		99.864
>	Au-1	197	89.186	

|	Tl	205		99.749
|	Pb	208		99.592
|	U	238		101.532
⌈>	In-2	115	84.785	
|	Ba	137		100.126
⌈>	Au-2	197	89.186	
|	Pb	206		99.824
|	Pb	207		100.714

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 07:53:56
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041210M1\QC Std 10.206

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			190990.476	ug/L	219065.440
	23	Na	1.810902	25.864	15633.746	ug/L	11860.377
	24	Mg	4.339784	22.512	11747.358	ug/L	3830.886
	27	Al	5.867830	17.733	22803.278	ug/L	6628.604
	39	K	11.705982	10.639	685708.479	ug/L	716897.807
	44	Ca	-5.076773	50.309	78678.853	ug/L	91324.351
	57	Fe	12.683803	10.542	13581.305	ug/L	12818.592
	9	Be	0.420288	23.288	161.336	ug/L	48.334
	51	V	-1.591598	98.986	-36789.336	ug/L	-30646.865
	52	Cr	0.250930	52.593	27775.932	ug/L	30184.830
	55	Mn	0.902942	21.349	11632.250	ug/L	4011.938
	59	Co	0.425834	23.938	4423.741	ug/L	1537.098
	60	Ni	0.384262	22.895	1395.083	ug/L	860.035
>	72	Ge-1			277293.141	ug/L	321356.208
	65	Cu	0.358093	22.579	1689.118	ug/L	1104.721
	66	Zn	0.376438	32.042	5103.296	ug/L	5408.412
	75	As	1.513353	9.636	1240.236	ug/L	-1011.066
	82	Se	0.701405	65.986	140.889	ug/L	39.252
>	115	In-1			531404.160	ug/L	628564.297
	97	Mo	1.068255	40.200	2876.000	ug/L	1099.053
	107	Ag	0.084766	30.707	1354.412	ug/L	756.028
	111	Cd	0.396614	20.095	1096.720	ug/L	402.343
	123	Sb	1.942260	43.400	14777.563	ug/L	5839.772
	135	Ba	0.439873	27.007	1121.389	ug/L	419.010
>	197	Au-1			788599.946	ug/L	871438.669
	205	Tl	1.502278	40.098	37956.307	ug/L	12873.293
	208	Pb	0.395664	24.865	15092.301	ug/L	5892.860
	238	U	0.455747	15.403	14937.702	ug/L	4539.435
>	115	In-2			531404.160	ug/L	628564.297
	137	Ba	0.463602	23.307	1935.819	ug/L	677.690
>	197	Au-2			788599.946	ug/L	871438.669
	206	Pb	0.402258	26.851	3769.880	ug/L	1442.421
	207	Pb	0.397989	23.232	3432.454	ug/L	1401.083

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	87.184	
	Na	23		181.090
	Mg	24		433.978
	Al	27		586.783
	K	39		1170.598
	Ca	44		-507.677
	Fe	57		1268.380
	Be	9		42.029
	V	51		-159.160
	Cr	52		25.093
	Mn	55		90.294
	Co	59		42.583
	Ni	60		38.426
>	Ge-1	72	86.288	
	Cu	65		35.809
	Zn	66		37.644
	As	75		151.335
	Se	82		70.140
>	In-1	115	84.543	
	Mo	97		106.826
	Ag	107		8.477
	Cd	111		39.661
	Sb	123		194.226
	Ba	135		43.987
>	Au-1	197	90.494	

	Tl	205		150.228
	Pb	208		39.566
	U	238		45.575
>	In-2	115	84.543	
	Ba	137		46.360
>	Au-2	197	90.494	
	Pb	206		40.226
	Pb	207		39.799

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
As	75	Q
Mo	97	Q
Sb	123	Q
Tl	205	Q

04-14-10
Sdg: 041210

Sample/Batch Report

User Name: stlmetals
Computer Name: SLICP03
Sample File: D:\Elandata\Sample\SW846 TEMP.sam
Report Date/Time: Tuesday, April 13, 2010 20:30:19

file: 041310M4

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
242	LLC	TRACE							
243	LDR	1PPM							
244		2PPM							
245		20 PPM							
246		50 PPM							
247		200 PPM							
191	LLC	TRACE ZN	10						
11	0098195	LXNG4B							
12		LXNG4C							
13		LXKEE							
14		LXKEEV	5						
15		LXKEES							
16		LXKEED							
17		LXMEQ							
18		LXME1							
19	0099287	LXRAGB							
20		LXRAGC							
21		LW2XV							
22		LW2XVV	5						
23		LW2XVS							
24		LW2XVD							
25	0099286	LXRAEB							
26		LXRAEC							
27		LXHVE							
28		LXHVEV	5						
29		LXHVEX							
30		LXHVES							
31		LXHVEA							
32		LXHVL							
33		LXHVL							
34		LXNLM							
35	0097230	LXLXTB							
36		LXLXTC							
37		LW7EE							
38		LW7EEV	5						
39		LW7EES							
40		LW7EED							
41		LW7EG							
42		LW7EH							
43		LW7EK							
44	0097081	LXLFVB	2						
45		LXLFVC	5						
46		LXLFVC	10						
47		LW5N3	10						
48		LW5N3V	50						
49		LW5N3S	10						
50		LW5N3D	10						
51		LW5N3A	10						
52		LW5PM	10						

53		LW5PT	10	
54		LW5PX	10	
55		LW5P2	10	
56		LW5P3	10	
57		LW5P5	10	
58		LW5P7	10	
59		LW5P9	10	
60		LW5QC	10	
61		LW7EL	10	
62		LW7ER	10	
63		LW7EW	10	
64		LW7EX	10	
65		LW7E1	10	
66		LW7E2	10	
67		LW7E3	10	
228		CCV		
237		CCB		recal ICV | ICB | LLC | A | AB | CCV | CCB
242	LLC	TRACE		
243	LDR	1PPM		
244		2PPM		— All trace
245		20 PPM		
246		50 PPM		— Al, K, Na
247		200 PPM		— Fe, Mg, Ca
191	LLC	~~TRACE ZN 10~~		~~Zn~~
11	0098195	LXNG4B		Fe 4/20/10
12		LXNG4C		
13		LXKEE		
14		LXKEEV	5	
15		LXKEES		
16		LXKEED		
17		LXMEQ		
18		LXME1		
19	0099287	LXRAGB		
20		LXRAGC		
21		LW2XV		
22		LW2XVV	5	Zn, Tl, Ca
23		LW2XVS		
24		LW2XVD		
25	0099286	LXRAEB		
26		LXRAEC		
27		LXHVE		
28		LXHVEV	5	
29		LXHVEX		Zn, Tl, Ca
30		LXHVES		
31		LXHVEA		
32		LXHVL		
33		LXHVLS		
34		LXNLM		
35	0097230	LXLXTB		
36		LXLXTC		
37		LW7EE		
38		LW7EEV	5	
39		LW7EES		Ca
40		LW7EED		
41		LW7EG		
42		LW7EH		
43		LW7EK		
44	0097081	LXLFVB	2	Ca, ~~Pb~~, Zn, Be
45		LXLFVC	5	~~Na~~,
46		~~LXLFVC~~	~~10~~	

CW CCB Be

CW CCB Tl↑ Be↑

CW CCB Tl↑ Be↑

(Be↑) CW CCB Tl↑ Be↑

OH-1440 X3

0097230
reextract
Zn, Cu
MB↑

47		LW5N3	10
48		LW5N3V	50
49		LW5N3S	10
50		LW5N3D	10
51		LW5N3A	10
52		LW5PM	10
53		LW5PT	10
54		LW5PX	10
55		LW5P2	10
56		LW5P3	10
57		LW5P5	10
58		LW5P7	10
59		LW5P9	10
60		LW5QC	10
61		LW7EL	10
62		LW7ER	10
63		LW7EW	10
64		LW7EX	10
65		LW7E1	10
66		LW7E2	10
67		LW7E3	10
228		CCV	
237		CCB	
242	LLC	TRACE	
243	LDR	1PPM	
244		2PPM	
237		TEST	
71	0103372	LXWT8B	2
72		LXWT8C	2
73		LW085	2
74		LW085V	10
75		LW085S	2
76		LW085D	2
77		LW09L	2
78		LW09P	2
79		LW09T	2
80		LW092	2
81		LW093	2
82		LW095	2
83		LW098	2
84		LW1AC	2
85		LW1AE	2
86		LW1AH	2
87		LW1AK	2
88		LW1AM	2
89		LW1AP	2
90	0096340	LXK12B	2
91		LXK12C	2
92		LW74V	2
93		LW74VV	10
94		LW74VX	2
95		LW74VS	2
96		LW74VA	2
97		LW741	2
98		LW741S	2
99		LW744	2
100		LW745	2
101		LW746	2
102		LW747	2
103		LW748	2

Na, Mg, Al, Ca, ~~Be~~, Fe, V, Cr, ~~Pb~~, Mn, Co, Ni

~~Ni~~ Zn, Be, Ca, Pb

Mn

CCB

CCB

4/14/10 x2

CCB

(bet)

11-14-10 xl

104		LW75A	2
105		LW75C	2
106		LW75D	2
107		LW75G	2
108		LW75J	2
109		LW75K	2
110		LW75L	2
111		LW75M	2
112		LW75N	2
113	0103373	LXWVLB	2
114		LXWVLC	2
115		LXNH3	2
116		LXNH3V	10
117		LXNH3S	2
118		LXNH3D	2
119		LXNH3A	2
120		LXPA8	2
121		LXPA8S	2
122		LXPA9	2
123		LXPCA	2
124		LXPCC	2
125		LXPCD	2
126		LXPCE	2

Instrument Tuning Report

File Name: EPA TUNING.tun
File Path: d:\Elandata\Tuning
Sample ID: Sample
Sample Date/Time: Tuesday, April 13, 2010 09:58:19

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.075	591	2085	0.689	
Mg	23.985	24.028	5684	2085	0.682	
Rh	102.905	102.929	24918	2080	0.687	
Ce	139.905	139.928	33929	2112	0.694	
Pb	207.977	207.975	50393	2300	0.709	

Replicates: 4

Meas. Intens. RSD	Mass
1.037	2.000
1.525	3.000
31.979	4.000
0.984	23.000
1.091	24.000
5.244	25.000
5.040	102.000
1.499	103.000
15.854	104.000
7.463	139.000
1.175	140.000
24.256	141.000
2.187	207.000
2.435	208.000
8.002	209.000

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, April 13, 2010 10:21:06
Sample Description:
Method File: d:\Elandata\Method\DAILY EPA.mth
Dataset File: d:\Elandata\Dataset\daily performance epa 3\Sample.070
Tuning File: d:\Elandata\Tuning\EPA TUNING.tun
Optimization File: d:\Elandata\Optimize\EPA2008.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
	Mg	24.0	58580.3	58580.313	482.683	0.8
	Rh	102.9	401216.9	401216.908	4341.367	1.1
	Pb	208.0	230849.3	230849.310	2013.984	0.9
⌈>	Ba	137.9	403515.3	403515.264	3244.668	0.8
⌊	Ba++	69.0	7749.7	0.019	0.000	1.7
⌈>	Ce	139.9	490130.8	490130.797	2846.184	0.6
⌊	CeO	155.9	13320.2	0.027	0.001	2.6
	Bkgd	220.0	17.2	17.167	3.704	21.6

Current Optimization File Data

Current Value	Description
0.90	Nebulizer Gas Flow
6.00	Lens Voltage
1400.00	ICP RF Power
-2062.50	Analog Stage Voltage
1250.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	4.8	4959.9
Mg	24	29	4.5	62155.3
Co	59	29	5.5	185561.4
Rh	103	29	6.5	414581.3
In	115	29	6.3	508806.7
Ba	138	29	6.3	456560.2
Ce	140	29	6.3	552211.1
Pb	208	29	9.3	255581.3

Quantitative Analysis Calibration Report

File Name: 041310M1.cal
File Path: D:\Elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Na	22.990	Linear Thru Zero	0.015645	0.00	0.999973
Mg	23.985	Linear Thru Zero	0.010332	0.00	0.999985
Al	26.982	Linear Thru Zero	0.015870	0.00	0.999997
K	38.964	Linear Thru Zero	0.026662	0.00	0.999998
Ca	43.956	Linear Thru Zero	0.000944	0.00	0.999804
Fe	56.935	Linear Thru Zero	0.000974	0.00	0.999835
Be	9.012	Linear Thru Zero	0.001409	0.00	0.999998
V	50.944	Linear Thru Zero	0.031100	0.00	0.999711
Cr	51.941	Linear Thru Zero	0.028634	0.00	0.999833
Mn	54.938	Linear Thru Zero	0.045945	0.00	0.999872
Co	58.933	Linear Thru Zero	0.036458	0.00	0.999769
Ni	59.933	Linear Thru Zero	0.008468	0.00	0.999900
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
Cu	64.928	Linear Thru Zero	0.006961	0.00	0.999860
Zn	65.926	Linear Thru Zero	0.003939	0.00	0.999820
Au-1	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.022797	0.00	0.999993
Pb	207.977	Linear Thru Zero	0.032486	0.00	0.999995
Au-2	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Pb	205.975	Linear Thru Zero	0.008215	0.00	0.999999
Pb	206.976	Linear Thru Zero	0.007122	0.00	0.999972
Sc	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Ti	46.952	Linear Thru Zero	0.002608	0.00	0.999970

Quantitative Analysis Calibration Report

File Name: 041310M1A.cal
File Path: D:\Elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Na	22.990	Linear Thru Zero	0.014552	0.00	0.999778
Mg	23.985	Linear Thru Zero	0.009775	0.00	0.999859
Al	26.982	Linear Thru Zero	0.014782	0.00	0.999889
K	38.964	Linear Thru Zero	0.025152	0.00	0.999863
Ca	43.956	Linear Thru Zero	0.000934	0.00	0.999767
Fe	56.935	Linear Thru Zero	0.000955	0.00	0.999821
Be	9.012	Linear Thru Zero	0.001507	0.00	0.999973
V	50.944	Linear Thru Zero	0.029909	0.00	0.999318
Cr	51.941	Linear Thru Zero	0.028186	0.00	0.999750
Mn	54.938	Linear Thru Zero	0.044627	0.00	0.999797
Co	58.933	Linear Thru Zero	0.035719	0.00	0.999678
Ni	59.933	Linear Thru Zero	0.008331	0.00	0.999764
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
Cu	64.928	Linear Thru Zero	0.007091	0.00	0.999863
Zn	65.926	Linear Thru Zero	0.004031	0.00	0.999834
Au-1	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.022614	0.00	1.000000
Pb	207.977	Linear Thru Zero	0.032277	0.00	0.999979
Au-2	196.967	Linear Thru Zero	0.000000	0.00	0.000000
Pb	205.975	Linear Thru Zero	0.008062	0.00	0.999949
Pb	206.976	Linear Thru Zero	0.007093	0.00	0.999971
Sc	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Ti	46.952	Linear Thru Zero	0.002582	0.00	0.999981

QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank
Sample Date/Time: Tuesday, April 13, 2010 14:18:29
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041310M1\Blank.039

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 45	Sc-1			257624.800	ug/L	
23	Na			50199.597	ug/L	
24	Mg			21102.507	ug/L	
27	Al			31736.052	ug/L	
39	K			785433.802	ug/L	
44	Ca			89592.624	ug/L	
57	Fe			16392.144	ug/L	
9	Be			46.334	ug/L	
51	V			-38525.530	ug/L	
52	Cr			34443.159	ug/L	
55	Mn			4030.943	ug/L	
59	Co			1553.100	ug/L	
60	Ni			941.040	ug/L	
> 72	Ge-1			365848.721	ug/L	
65	Cu			900.704	ug/L	
66	Zn			7004.120	ug/L	
> 197	Au-1			924783.275	ug/L	
205	Tl			7516.719	ug/L	
208	Pb			5342.778	ug/L	
> 197	Au-2			924783.275	ug/L	
206	Pb			1321.741	ug/L	
207	Pb			1194.729	ug/L	
> 45	Sc			257624.800	ug/L	
47	Ti			6572.911	ug/L	

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
> Sc-1	45		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
> Ge-1	72		
Cu	65		
Zn	66		
> Au-1	197		
Tl	205		
Pb	208		
> Au-2	197		
Pb	206		
Pb	207		
> Sc	45		
Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1
Sample Date/Time: Tuesday, April 13, 2010 14:22:47
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041310M1\Standard 1.040

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			259184.093	ug/L	257624.800
|	23	Na	50.000000	7.911	266741.065	ug/L	50199.597
|	24	Mg	50.000000	6.492	161724.295	ug/L	21102.507
|	27	Al	30.000000	8.540	149851.512	ug/L	31736.052
|	39	K	100.000000	9.180	1499442.756	ug/L	785433.802
|	44	Ca	100.000000	22.114	117116.307	ug/L	89592.624
|	57	Fe	50.000000	15.409	27765.882	ug/L	16392.144
|	9	Be	0.500000	18.459	190.670	ug/L	46.334
|	51	V	10.000000	9.211	46663.460	ug/L	-38525.530
|	52	Cr	10.000000	8.950	116381.405	ug/L	34443.159
|	55	Mn	2.000000	7.119	29883.863	ug/L	4030.943
|	59	Co	2.000000	7.090	22703.926	ug/L	1553.100
⌊	60	Ni	5.000000	5.811	12877.264	ug/L	941.040
⌈>	72	Ge-1			364885.506	ug/L	365848.721
|	65	Cu	1.000000	0.417	3682.512	ug/L	900.704
⌊	66	Zn	5.000000	3.394	16054.510	ug/L	7004.120
⌈>	197	Au-1			939404.925	ug/L	924783.275
|	205	Tl	2.000000	5.872	44812.656	ug/L	7516.719
⌊	208	Pb	3.000000	1.634	98857.364	ug/L	5342.778
⌈>	197	Au-2			939404.925	ug/L	924783.275
|	206	Pb	3.000000	3.066	24572.699	ug/L	1321.741
⌊	207	Pb	3.000000	1.326	21622.903	ug/L	1194.729
⌈>	45	Sc			259184.093	ug/L	257624.800
⌊	47	Ti	5.000000	19.447	9923.546	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45		
|	Na	23		
|	Mg	24		
	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72		
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197		
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197		
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45		
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2
Sample Date/Time: Tuesday, April 13, 2010 14:27:05
Autosampler Position: 3
Dataset File: D:\Elandata\Dataset\041310M1\Standard 2.041

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			253524.533	ug/L	257624.800
|	23	Na	624.874901	3.722	2617168.390	ug/L	50199.597
|	24	Mg	1249.953900	4.648	3383112.599	ug/L	21102.507
|	27	Al	625.043550	2.844	2513648.105	ug/L	31736.052
|	39	K	624.702462	2.761	5037628.240	ug/L	785433.802
|	44	Ca	1249.919294	2.446	416813.262	ug/L	89592.624
|	57	Fe	1250.354449	5.238	352546.144	ug/L	16392.144
|	9	Be	100.000499	2.275	35399.158	ug/L	46.334
|	51	V	100.055428	4.302	844967.597	ug/L	-38525.530
|	52	Cr	99.987702	1.947	825459.228	ug/L	34443.159
|	55	Mn	99.999750	3.480	1261309.715	ug/L	4030.943
|	59	Co	99.999512	5.474	1024373.918	ug/L	1553.100
⌊	60	Ni	99.995720	2.147	230718.227	ug/L	941.040
⌈>	72	Ge-1			354436.908	ug/L	365848.721
|	65	Cu	99.999883	2.292	268180.678	ug/L	900.704
⌊	66	Zn	99.961609	3.046	159529.862	ug/L	7004.120
⌈>	197	Au-1			909697.543	ug/L	924783.275
|	205	Tl	100.004569	1.256	2041580.061	ug/L	7516.719
⌊	208	Pb	99.999556	0.798	3006941.114	ug/L	5342.778
⌈>	197	Au-2			909697.543	ug/L	924783.275
|	206	Pb	100.000176	1.797	752842.082	ug/L	1321.741
⌊	207	Pb	100.001741	1.111	673101.906	ug/L	1194.729
⌈>	45	Sc			253524.533	ug/L	257624.800
⌊	47	Ti	100.012889	1.692	75147.231	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45		
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72		
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197		
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197		
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45		
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3
Sample Date/Time: Tuesday, April 13, 2010 14:31:24
Autosampler Position: 4
Dataset File: D:\Elandata\Dataset\041310M1\Standard 3.042

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			248238.879	ug/L	257624.800
	23	Na	3120.388805	2.370	12163301.277	ug/L	50199.597
	24	Mg	6243.059679	1.596	16029998.928	ug/L	21102.507
	27	Al	3126.560182	3.491	12343268.709	ug/L	31736.052
	39	K	3123.675583	3.500	21423753.963	ug/L	785433.802
	44	Ca	6225.155509	2.692	1545236.693	ug/L	89592.624
	57	Fe	6227.358998	3.067	1520785.950	ug/L	16392.144
	9	Be	500.200459	2.808	174956.372	ug/L	46.334
	51	V	497.585662	1.248	3803889.359	ug/L	-38525.530
	52	Cr	498.165056	2.367	3573477.871	ug/L	34443.159
	55	Mn	498.398661	3.063	5686257.787	ug/L	4030.943
	59	Co	497.848063	2.325	4506011.958	ug/L	1553.100
	60	Ni	498.581073	2.418	1048629.626	ug/L	941.040
>	72	Ge-1			344693.144	ug/L	365848.721
	65	Cu	498.328712	1.290	1196380.505	ug/L	900.704
	66	Zn	498.105392	0.935	682928.826	ug/L	7004.120
>	197	Au-1			886367.834	ug/L	924783.275
	205	Tl	500.384112	1.171	10118691.994	ug/L	7516.719
	208	Pb	499.684891	1.185	14393852.417	ug/L	5342.778
>	197	Au-2			886367.834	ug/L	924783.275
	206	Pb	499.886746	1.080	3641505.540	ug/L	1321.741
	207	Pb	499.257551	1.521	3153083.758	ug/L	1194.729
>	45	Sc			248238.879	ug/L	257624.800
	47	Ti	499.221517	3.069	329407.737	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
>	Au-1	197		
	Tl	205		
	Pb	208		
>	Au-2	197		
	Pb	206		
	Pb	207		
>	Sc	45		
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1
Sample Date/Time: Tuesday, April 13, 2010 14:35:43
Autosampler Position: 7
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 1.043

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			246002.477	ug/L	257624.800
	23	Na	3959.795309	2.007	15287087.996	ug/L	50199.597
	24	Mg	3938.236515	2.251	10028992.505	ug/L	21102.507
	27	Al	3857.111320	0.501	15088874.280	ug/L	31736.052
	39	K	3916.147137	1.318	26436593.668	ug/L	785433.802
	44	Ca	4154.544560	2.459	1050633.835	ug/L	89592.624
	57	Fe	4012.504260	1.553	976968.531	ug/L	16392.144
	9	Be	1002.519730	1.519	347549.349	ug/L	46.334
	51	V	986.719029	1.827	7512206.985	ug/L	-38525.530
	52	Cr	999.890699	1.110	7076127.190	ug/L	34443.159
	55	Mn	985.481451	1.646	11142622.286	ug/L	4030.943
	59	Co	999.527707	1.478	8965747.703	ug/L	1553.100
	60	Ni	936.607668	2.153	1951979.315	ug/L	941.040
>	72	Ge-1			340633.156	ug/L	365848.721
	65	Cu	1012.046924	0.600	2400352.289	ug/L	900.704
	66	Zn	980.593601	0.545	1322284.287	ug/L	7004.120
>	197	Au-1			887215.591	ug/L	924783.275
	205	Tl	1035.456435	0.867	20949013.240	ug/L	7516.719
	208	Pb	996.619303	0.516	28729883.249	ug/L	5342.778
>	197	Au-2			887215.591	ug/L	924783.275
	206	Pb	1007.603704	1.626	7346079.739	ug/L	1321.741
	207	Pb	964.948765	1.307	6098093.986	ug/L	1194.729
>	45	Sc			246002.477	ug/L	257624.800
	47	Ti	988.856471	0.730	640700.737	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.489	
	Na	23		98.995
	Mg	24		98.456
	Al	27		96.428
	K	39		97.904
	Ca	44		103.864
	Fe	57		100.313
	Be	9		100.252
	V	51		98.672
	Cr	52		99.989
	Mn	55		98.548
	Co	59		99.953
	Ni	60		93.661
>	Ge-1	72	93.108	
	Cu	65		101.205
	Zn	66		98.059
>	Au-1	197	95.938	
	Tl	205		103.548
	Pb	208		99.662
>	Au-2	197	95.938	
	Pb	206		100.760
	Pb	207		96.495
>	Sc	45	95.489	
	Ti	47		98.886

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2
Sample Date/Time: Tuesday, April 13, 2010 14:40:02
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 2.044

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			240452.062	ug/L	257624.800
	23	Na	-3.818806	7.335	32479.886	ug/L	50199.597
	24	Mg	-3.364139	5.807	11335.613	ug/L	21102.507
	27	Al	-3.097209	5.173	17807.621	ug/L	31736.052
	39	K	-0.929206	218.476	727001.230	ug/L	785433.802
	44	Ca	-17.285740	45.346	79678.053	ug/L	89592.624
	57	Fe	-8.496455	11.981	13308.257	ug/L	16392.144
	9	Be	0.213741	24.972	115.668	ug/L	46.334
	51	V	-0.042668	1082.932	-36267.211	ug/L	-38525.530
	52	Cr	-0.238356	76.191	30493.831	ug/L	34443.159
	55	Mn	0.213403	6.590	6121.040	ug/L	4030.943
	59	Co	0.230117	11.215	3468.457	ug/L	1553.100
	60	Ni	0.200187	6.400	1286.071	ug/L	941.040
>	72	Ge-1			338182.912	ug/L	365848.721
	65	Cu	0.264073	12.438	1454.755	ug/L	900.704
	66	Zn	0.256606	43.663	6817.362	ug/L	7004.120
>	197	Au-1			902853.133	ug/L	924783.275
	205	Tl	1.743079	26.972	43169.626	ug/L	7516.719
	208	Pb	0.280839	15.495	13443.966	ug/L	5342.778
>	197	Au-2			902853.133	ug/L	924783.275
	206	Pb	0.271440	13.117	3301.749	ug/L	1321.741
	207	Pb	0.283649	14.239	2988.677	ug/L	1194.729
>	45	Sc			240452.062	ug/L	257624.800
	47	Ti	0.470974	55.060	6428.510	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.334	
	Na	23		-381.881
	Mg	24		-336.414
	Al	27		-309.721
	K	39		-92.921
	Ca	44		-1728.574
	Fe	57		-849.646
	Be	9		21.374
	V	51		-4.267
	Cr	52		-23.836
	Mn	55		21.340
	Co	59		23.012
	Ni	60		20.019
>	Ge-1	72	92.438	
	Cu	65		26.407
	Zn	66		25.661
>	Au-1	197	97.629	
	Tl	205		174.368
	Pb	208		28.084
>	Au-2	197	97.629	
	Pb	206		27.144
	Pb	207		28.385
>	Sc	45	93.334	
	Ti	47		47.097

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3
Sample Date/Time: Tuesday, April 13, 2010 14:44:20
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 3.045

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			240743.279	ug/L	257624.800
	23	Na	53.322431	10.758	246978.539	ug/L	50199.597
	24	Mg	52.727308	7.688	150516.912	ug/L	21102.507
	27	Al	28.862918	4.619	139766.798	ug/L	31736.052
	39	K	105.440286	10.887	1408119.077	ug/L	785433.802
	44	Ca	102.931449	25.840	106899.884	ug/L	89592.624
	57	Fe	44.366312	10.492	25682.355	ug/L	16392.144
	9	Be	0.532915	20.908	223.337	ug/L	46.334
	51	V	11.062404	2.218	46763.794	ug/L	-38525.530
	52	Cr	10.987787	6.767	107742.196	ug/L	34443.159
	55	Mn	2.317946	2.146	29385.177	ug/L	4030.943
	59	Co	2.379488	4.980	22305.301	ug/L	1553.100
	60	Ni	5.558005	4.863	12189.654	ug/L	941.040
>	72	Ge-1			347839.234	ug/L	365848.721
	65	Cu	1.173999	2.857	3698.182	ug/L	900.704
	66	Zn	6.671534	8.146	15796.562	ug/L	7004.120
>	197	Au-1			904861.532	ug/L	924783.275
	205	Tl	2.370882	0.895	56257.119	ug/L	7516.719
	208	Pb	3.201544	0.589	99335.096	ug/L	5342.778
>	197	Au-2			904861.532	ug/L	924783.275
	206	Pb	3.135061	2.444	24595.405	ug/L	1321.741
	207	Pb	3.271367	2.142	22246.865	ug/L	1194.729
>	45	Sc			240743.279	ug/L	257624.800
	47	Ti	5.589556	18.643	9627.673	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.447	
	Na	23		106.645
	Mg	24		105.455
	Al	27		96.210
	K	39		105.440
	Ca	44		102.931
	Fe	57		88.733
	Be	9		106.583
	V	51		110.624
	Cr	52		109.878
	Mn	55		115.897
	Co	59		118.974
	Ni	60		111.160
>	Ge-1	72	95.077	
	Cu	65		117.400
	Zn	66		133.431
>	Au-1	197	97.846	
	Tl	205		118.544
	Pb	208		106.718
>	Au-2	197	97.846	
	Pb	206		104.502
	Pb	207		109.046
>	Sc	45	93.447	
	Ti	47		111.791

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Zn	66	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4
Sample Date/Time: Tuesday, April 13, 2010 14:48:38
Autosampler Position: 5
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 4.046

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			244891.073	ug/L	257624.800
	23	Na	10392.158865	1.755	39856593.649	ug/L	50199.597
	24	Mg	10110.621821	2.709	25592274.441	ug/L	21102.507
	27	Al	10094.971376	3.431	39247048.489	ug/L	31736.052
	39	K	10499.725989	5.336	69257650.540	ug/L	785433.802
	44	Ca	9609.427565	3.404	2306373.297	ug/L	89592.624
	57	Fe	10262.568752	1.960	2462627.014	ug/L	16392.144
	9	Be	-0.083463	26.894	15.333	ug/L	46.334
	51	V	-0.388507	412.827	-39491.088	ug/L	-38525.530
	52	Cr	-0.380744	76.386	30045.581	ug/L	34443.159
	55	Mn	-0.066516	18.402	3084.365	ug/L	4030.943
	59	Co	-0.075252	1.276	804.364	ug/L	1553.100
	60	Ni	0.246260	14.963	1404.416	ug/L	941.040
>	72	Ge-1			348087.362	ug/L	365848.721
	65	Cu	0.182941	15.198	1299.072	ug/L	900.704
	66	Zn	1.437898	4.742	8634.696	ug/L	7004.120
>	197	Au-1			886449.606	ug/L	924783.275
	205	Tl	0.236115	39.274	11965.534	ug/L	7516.719
	208	Pb	-0.073743	6.797	2996.152	ug/L	5342.778
>	197	Au-2			886449.606	ug/L	924783.275
	206	Pb	-0.074150	8.121	727.026	ug/L	1321.741
	207	Pb	-0.070998	4.774	696.691	ug/L	1194.729
>	45	Sc			244891.073	ug/L	257624.800
	47	Ti	222.699230	4.527	148403.984	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.057	
	Na	23		103.922
	Mg	24		101.106
	Al	27		100.950
	K	39		104.997
	Ca	44		96.094
	Fe	57		102.626
	Be	9		-16.693
	V	51		-3.885
	Cr	52		-3.807
	Mn	55		-3.328
	Co	59		-7.525
	Ni	60		24.626
>	Ge-1	72	95.145	
	Cu	65		18.294
	Zn	66		28.758
>	Au-1	197	95.855	
	Tl	205		11.806
	Pb	208		-2.458
>	Au-2	197	95.855	
	Pb	206		-7.415
	Pb	207		-7.100
>	Sc	45	95.057	
	Ti	47		111.350

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5
Sample Date/Time: Tuesday, April 13, 2010 14:52:57
Autosampler Position: 6
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 5.047

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			240335.734	ug/L	257624.800
	23	Na	10427.286098	2.530	39236674.891	ug/L	50199.597
	24	Mg	10309.515823	3.933	25601366.781	ug/L	21102.507
	27	Al	10124.671707	4.264	38618730.356	ug/L	31736.052
	39	K	10266.580483	4.883	66464153.826	ug/L	785433.802
	44	Ca	9603.602970	2.920	2262010.822	ug/L	89592.624
	57	Fe	10389.448683	3.667	2445606.740	ug/L	16392.144
	9	Be	106.833986	4.663	36199.527	ug/L	46.334
	51	V	106.647559	2.986	761571.568	ug/L	-38525.530
	52	Cr	113.007872	3.729	809306.600	ug/L	34443.159
	55	Mn	110.232299	4.975	1219947.670	ug/L	4030.943
	59	Co	109.887358	3.866	963727.935	ug/L	1553.100
	60	Ni	105.612148	4.526	215646.692	ug/L	941.040
>	72	Ge-1			339972.282	ug/L	365848.721
	65	Cu	104.477070	1.559	248042.785	ug/L	900.704
	66	Zn	102.075399	2.701	143176.066	ug/L	7004.120
>	197	Au-1			871377.036	ug/L	924783.275
	205	Tl	100.089294	0.731	1995501.493	ug/L	7516.719
	208	Pb	103.863316	0.727	2944911.766	ug/L	5342.778
>	197	Au-2			871377.036	ug/L	924783.275
	206	Pb	102.290860	1.664	733670.190	ug/L	1321.741
	207	Pb	105.693112	1.205	657015.658	ug/L	1194.729
>	45	Sc			240335.734	ug/L	257624.800
	47	Ti	221.296990	0.816	144821.971	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.289	
	Na	23		104.273
	Mg	24		103.095
	Al	27		101.247
	K	39		102.666
	Ca	44		96.036
	Fe	57		103.894
	Be	9		106.834
	V	51		106.648
	Cr	52		113.008
	Mn	55		110.232
	Co	59		109.887
	Ni	60		105.612
>	Ge-1	72	92.927	
	Cu	65		104.477
	Zn	66		102.075
>	Au-1	197	94.225	
	Tl	205		100.089
	Pb	208		103.863
>	Au-2	197	94.225	
	Pb	206		102.291
	Pb	207		105.693
>	Sc	45	93.289	
	Ti	47		110.646

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 14:59:17
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.048

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			245252.398	ug/L	257624.800
|	23	Na	3841.491883	4.163	14775225.384	ug/L	50199.597
|	24	Mg	7752.708415	3.684	19650541.478	ug/L	21102.507
|	27	Al	3787.381757	3.964	14759282.930	ug/L	31736.052
|	39	K	3841.683517	6.769	25833741.794	ug/L	785433.802
|	44	Ca	7845.334535	2.791	1901263.732	ug/L	89592.624
|	57	Fe	7595.248271	3.121	1828637.476	ug/L	16392.144
|	9	Be	1004.089950	3.348	346801.102	ug/L	46.334
|	51	V	971.142428	0.911	7369298.793	ug/L	-38525.530
|	52	Cr	972.668329	0.917	6862659.979	ug/L	34443.159
|	55	Mn	957.642626	2.596	10791143.015	ug/L	4030.943
|	59	Co	976.747938	2.707	8730088.676	ug/L	1553.100
⌊	60	Ni	928.767359	2.520	1928717.183	ug/L	941.040
⌈>	72	Ge-1			325651.521	ug/L	365848.721
|	65	Cu	1013.879307	2.033	2305567.424	ug/L	900.704
⌊	66	Zn	978.304227	2.245	1264846.370	ug/L	7004.120
⌈>	197	Au-1			878518.554	ug/L	924783.275
|	205	Tl	1022.787425	1.479	20489589.507	ug/L	7516.719
⌊	208	Pb	1006.075479	1.792	28717511.401	ug/L	5342.778
⌈>	197	Au-2			878518.554	ug/L	924783.275
|	206	Pb	982.882666	2.419	7094640.239	ug/L	1321.741
⌊	207	Pb	1018.197980	4.397	6371746.743	ug/L	1194.729
⌈>	45	Sc			245252.398	ug/L	257624.800
⌊	47	Ti	962.171755	1.605	621484.308	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	95.198	
|	Na	23		96.037
|	Mg	24		96.909
|	Al	27		94.685
|	K	39		96.042
|	Ca	44		98.067
|	Fe	57		94.941
|	Be	9		100.409
|	V	51		97.114
|	Cr	52		97.267
|	Mn	55		95.764
|	Co	59		97.675
⌊	Ni	60		92.877
⌈>	Ge-1	72	89.288	
|	Cu	65		101.388
⌊	Zn	66		97.830
⌈>	Au-1	197	94.997	
|	Tl	205		102.279
⌊	Pb	208		100.608
⌈>	Au-2	197	94.997	
|	Pb	206		98.288
⌊	Pb	207		101.820
⌈>	Sc	45	95.198	
⌊	Ti	47		96.217

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 15:03:37
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.049

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			228267.540	ug/L	257624.800
	23	Na	-6.205110	2.801	22317.983	ug/L	50199.597
	24	Mg	-4.641718	10.345	7748.206	ug/L	21102.507
	27	Al	-4.857865	4.602	10519.324	ug/L	31736.052
	39	K	-3.744521	5.687	673143.790	ug/L	785433.802
	44	Ca	-22.417322	6.611	74552.110	ug/L	89592.624
	57	Fe	-8.110927	8.667	12721.036	ug/L	16392.144
	9	Be	0.111899	52.291	77.001	ug/L	46.334
	51	V	-1.123962	24.546	-42114.424	ug/L	-38525.530
	52	Cr	-0.245925	75.207	28912.889	ug/L	34443.159
	55	Mn	0.138665	34.611	5024.939	ug/L	4030.943
	59	Co	0.113038	39.923	2315.881	ug/L	1553.100
	60	Ni	0.061606	58.142	952.708	ug/L	941.040
>	72	Ge-1			332782.841	ug/L	365848.721
	65	Cu	0.124554	28.946	1108.388	ug/L	900.704
	66	Zn	0.178899	50.749	6607.262	ug/L	7004.120
>	197	Au-1			885056.647	ug/L	924783.275
	205	Tl	1.822056	33.846	43870.698	ug/L	7516.719
	208	Pb	0.156924	33.972	9620.713	ug/L	5342.778
>	197	Au-2			885056.647	ug/L	924783.275
	206	Pb	0.152107	39.808	2369.558	ug/L	1321.741
	207	Pb	0.162916	37.490	2169.523	ug/L	1194.729
>	45	Sc			228267.540	ug/L	257624.800
	47	Ti	0.330865	50.677	6020.662	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	88.605	
	Na	23		-620.511
	Mg	24		-464.172
	Al	27		-485.788
	K	39		-374.452
	Ca	44		-2241.732
	Fe	57		-811.093
	Be	9		11.190
	V	51		-112.396
	Cr	52		-24.593
	Mn	55		13.867
	Co	59		11.304
	Ni	60		6.161
>	Ge-1	72	90.962	
	Cu	65		12.455
	Zn	66		17.890
>	Au-1	197	95.704	
	Tl	205		182.206
	Pb	208		15.692
>	Au-2	197	95.704	
	Pb	206		15.211
	Pb	207		16.292
>	Sc	45	88.605	
	Ti	47		33.087

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE
Sample Date/Time: Tuesday, April 13, 2010 15:07:56
Autosampler Position: 242
Dataset File: D:\Elandata\Dataset\041310M1\TRACE.050

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			239887.202	ug/L	257624.800
	23	**Na**	**52.780655**	4.307	244659.392	ug/L	50199.597
	24	**Mg**	**53.629252**	4.095	152463.191	ug/L	21102.507
	27	**Al**	**30.444475**	7.425	145286.985	ug/L	31736.052
	39	**K**	**107.070473**	6.978	1415237.533	ug/L	785433.802
	44	**Ca**	**91.161285**	15.948	104008.621	ug/L	89592.624
	57	**Fe**	**42.366667**	8.089	25145.754	ug/L	16392.144
	9	**Be**	**0.599811**	7.641	246.005	ug/L	46.334
	51	**V**	**12.552051**	5.282	57691.444	ug/L	-38525.530
	52	**Cr**	**11.511579**	5.679	111053.790	ug/L	34443.159
	55	**Mn**	**2.348823**	3.181	29624.982	ug/L	4030.943
	59	**Co**	**2.403471**	5.158	22445.849	ug/L	1553.100
	60	**Ni**	**5.655320**	4.108	12354.797	ug/L	941.040
>	72	**Ge-1**			338608.455	ug/L	365848.721
	65	**Cu**	**1.281873**	3.331	3853.892	ug/L	900.704
	66	**Zn**	**7.509391**	1.317	16496.687	ug/L	7004.120
>	197	**Au-1**			908433.982	ug/L	924783.275
	205	**Tl**	**2.560045**	2.035	60403.411	ug/L	7516.719
	208	**Pb**	**3.292614**	2.856	102405.270	ug/L	5342.778
>	197	**Au-2**			908433.982	ug/L	924783.275
	206	**Pb**	**3.240622**	1.973	25480.961	ug/L	1321.741
	207	**Pb**	**3.299198**	2.946	22515.291	ug/L	1194.729
>	45	**Sc**			239887.202	ug/L	257624.800
	47	**Ti**	**4.966375**	10.117	9221.401	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**93.115**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	**Ge-1**	72	**92.554**	
	Cu	65		
	Zn	66		
>	**Au-1**	197	**98.232**	
	Tl	205		
	Pb	208		
>	**Au-2**	197	**98.232**	
	Pb	206		
	Pb	207		
>	**Sc**	45	**93.115**	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: 1PPM
Sample Date/Time: Tuesday, April 13, 2010 15:11:46
Autosampler Position: 243
Dataset File: D:\Elandata\Dataset\041310M1\1PPM.051

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			234170.756	ug/L	257624.800
|	23	Na	-3.096978	14.019	34226.297	ug/L	50199.597
|	24	Mg	-0.284166	220.992	18441.424	ug/L	21102.507
|	27	Al	5.624987	18.977	49606.519	ug/L	31736.052
|	39	K	-8.195351	73.484	661406.066	ug/L	785433.802
|	44	Ca	244.808005	11.024	135349.211	ug/L	89592.624
|	57	Fe	-11.739026	33.003	12191.783	ug/L	16392.144
|	9	Be	1039.412720	3.904	342543.765	ug/L	46.334
|	51	V	1004.780855	2.103	7277371.495	ug/L	-38525.530
|	52	Cr	1025.940180	4.335	6900101.878	ug/L	34443.159
|	55	Mn	991.796563	5.245	10653815.863	ug/L	4030.943
|	59	Co	1010.265454	6.518	8609353.469	ug/L	1553.100
⌊	60	Ni	975.178152	6.741	1929955.976	ug/L	941.040
⌈>	72	Ge-1			323865.876	ug/L	365848.721
|	65	Cu	1017.310267	4.983	2292992.299	ug/L	900.704
⌊	66	Zn	967.337776	1.767	1240055.481	ug/L	7004.120
⌈>	197	Au-1			867822.380	ug/L	924783.275
|	205	Tl	1006.365236	1.368	19917632.098	ug/L	7516.719
⌊	208	Pb	1013.690333	1.246	28584750.330	ug/L	5342.778
⌈>	197	Au-2			867822.380	ug/L	924783.275
|	206	Pb	973.656354	1.442	6943492.717	ug/L	1321.741
⌊	207	Pb	1032.692525	0.514	6384077.073	ug/L	1194.729
⌈>	45	Sc			234170.756	ug/L	257624.800
⌊	47	Ti	954.851853	3.445	588468.030	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	90.896	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	88.525	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	93.841	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	93.841	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	90.896	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Co	59	H
Cu	65	H
Tl	205	H
Pb	208	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 2PPM
Sample Date/Time: Tuesday, April 13, 2010 15:15:36
Autosampler Position: 244
Dataset File: D:\Elandata\Dataset\041310M1\2PPM.052

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			232430.234	ug/L	257624.800
	23	Na	10.066401	3.138	81897.614	ug/L	50199.597
	24	Mg	21.073117	2.301	69642.399	ug/L	21102.507
	27	Al	14.230368	4.669	81129.029	ug/L	31736.052
	39	K	-7.168267	10.540	664210.997	ug/L	785433.802
	44	Ca	522.884244	5.178	195606.698	ug/L	89592.624
	57	Fe	-17.087739	7.567	10921.538	ug/L	16392.144
	9	Be	2045.005577	0.929	669803.829	ug/L	46.334
	51	V	2009.098864	1.094	14487978.641	ug/L	-38525.530
	52	Cr	1993.471511	2.655	13297473.108	ug/L	34443.159
	55	Mn	1937.268461	1.453	20690874.370	ug/L	4030.943
	59	Co	2056.429417	4.306	17426495.731	ug/L	1553.100
	60	Ni	2004.201979	2.318	3945414.017	ug/L	941.040
>	72	Ge-1			321850.261	ug/L	365848.721
	65	Cu	2002.302982	2.626	4485696.061	ug/L	900.704
	66	Zn	1998.538226	2.288	2539669.387	ug/L	7004.120
>	197	Au-1			892693.128	ug/L	924783.275
	205	Tl	1983.960008	1.809	40376407.700	ug/L	7516.719
	208	Pb	1953.436302	2.178	56646173.900	ug/L	5342.778
>	197	Au-2			892693.128	ug/L	924783.275
	206	Pb	1890.169961	0.978	13862596.877	ug/L	1321.741
	207	Pb	1968.745488	2.349	12514976.408	ug/L	1194.729
>	45	Sc			232430.234	ug/L	257624.800
	47	Ti	1900.161243	0.184	1157779.586	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.220	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	87.974	
	Cu	65		
	Zn	66		
>	Au-1	197	96.530	
	Tl	205		
	Pb	208		
>	Au-2	197	96.530	
	Pb	206		
	Pb	207		
>	Sc	45	90.220	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Cu	65	H
Zn	66	H

Pb	208	H
Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 20 PPM
Sample Date/Time: Tuesday, April 13, 2010 15:19:25
Autosampler Position: 245
Dataset File: D:\Elandata\Dataset\041310M1\20 PPM.053

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			240429.108	ug/L	257624.800
	23	Na	19909.505670	4.403	74873721.322	ug/L	50199.597
	24	Mg	20255.649224	3.081	50305696.655	ug/L	21102.507
	27	Al	20207.506314	5.556	77065839.003	ug/L	31736.052
	39	K	20478.769429	6.558	131850497.655	ug/L	785433.802
	44	Ca	18929.174946	3.424	4378363.851	ug/L	89592.624
	57	Fe	20069.688181	2.179	4712807.277	ug/L	16392.144
	9	Be	1.234454	28.374	459.679	ug/L	46.334
	51	V	1.296732	216.222	-26062.683	ug/L	-38525.530
	52	Cr	1.401525	33.033	41750.152	ug/L	34443.159
	55	Mn	1.472765	24.539	19967.105	ug/L	4030.943
	59	Co	1.438757	24.258	14012.520	ug/L	1553.100
	60	Ni	2.166784	17.378	5276.703	ug/L	941.040
>	72	Ge-1			346844.327	ug/L	365848.721
	65	Cu	1.972574	16.289	5611.837	ug/L	900.704
	66	Zn	3.138353	16.467	10923.626	ug/L	7004.120
>	197	Au-1			867986.199	ug/L	924783.275
	205	Tl	3.203695	12.266	70480.044	ug/L	7516.719
	208	Pb	1.478441	18.352	46668.386	ug/L	5342.778
>	197	Au-2			867986.199	ug/L	924783.275
	206	Pb	1.437565	15.579	11484.450	ug/L	1321.741
	207	Pb	1.472808	19.121	10218.154	ug/L	1194.729
>	45	Sc			240429.108	ug/L	257624.800
	47	Ti	448.106958	0.732	287090.944	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.325	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.805	
	Cu	65		
	Zn	66		
>	Au-1	197	93.858	
	Tl	205		
	Pb	208		
>	Au-2	197	93.858	
	Pb	206		
	Pb	207		
>	Sc	45	93.325	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Al	27	H
K	39	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 50 PPM
Sample Date/Time: Tuesday, April 13, 2010 15:23:15
Autosampler Position: 246
Dataset File: D:\Elandata\Dataset\041310M1\50 PPM.054

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			239176.917	ug/L	257624.800
	23	Na	51022.464386	5.817	190810331.110	ug/L	50199.597
	24	Mg	50130.423945	3.833	123811273.647	ug/L	21102.507
	27	Al	50822.349105	1.173	192900637.448	ug/L	31736.052
	39	K	50696.809052	1.522	323942401.705	ug/L	785433.802
	44	Ca	47573.357968	2.192	10823557.340	ug/L	89592.624
	57	Fe	51049.580749	3.652	11898680.311	ug/L	16392.144
	9	Be	0.144944	35.846	91.668	ug/L	46.334
	51	V	-2.361987	52.964	-53238.547	ug/L	-38525.530
	52	Cr	1.342579	28.243	41125.576	ug/L	34443.159
	55	Mn	0.378557	19.783	7887.264	ug/L	4030.943
	59	Co	0.377238	14.670	4722.831	ug/L	1553.100
	60	Ni	7.367810	4.836	15782.873	ug/L	941.040
>	72	Ge-1			368697.782	ug/L	365848.721
	65	Cu	1.682428	1.281	5225.008	ug/L	900.704
	66	Zn	3.947805	4.630	12789.851	ug/L	7004.120
>	197	Au-1			844490.727	ug/L	924783.275
	205	Tl	0.879558	24.988	23850.314	ug/L	7516.719
	208	Pb	0.361567	10.326	14785.473	ug/L	5342.778
>	197	Au-2			844490.727	ug/L	924783.275
	206	Pb	0.354528	10.554	3663.841	ug/L	1321.741
	207	Pb	0.370454	14.052	3315.086	ug/L	1194.729
>	45	Sc			239176.917	ug/L	257624.800
	47	Ti	1110.935348	3.141	698687.877	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.839	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	100.779	
	Cu	65		
	Zn	66		
>	Au-1	197	91.318	
	Tl	205		
	Pb	208		
>	Au-2	197	91.318	
	Pb	206		
	Pb	207		
>	Sc	45	92.839	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 200 PPM
Sample Date/Time: Tuesday, April 13, 2010 15:27:05
Autosampler Position: 247
Dataset File: D:\Elandata\Dataset\041310M1\200 PPM.055

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			230450.607	ug/L	257624.800
	23	Na	S	S	S	ug/L	50199.597
	24	Mg	190647.264666	4.622	453881381.159	ug/L	21102.507
	27	Al	S	S	S	ug/L	31736.052
	39	K	S	S	S	ug/L	785433.802
	44	Ca	188992.538161	1.828	41203188.382	ug/L	89592.624
	57	Fe	197675.443262	3.537	44372095.025	ug/L	16392.144
	9	Be	-0.089838	18.220	12.333	ug/L	46.334
	51	V	-1.358838	233.454	-44116.394	ug/L	-38525.530
	52	Cr	5.682388	5.314	68289.567	ug/L	34443.159
	55	Mn	0.509259	1.967	8996.589	ug/L	4030.943
	59	Co	0.657796	4.641	6915.745	ug/L	1553.100
⌊	60	Ni	7.122874	4.634	14740.091	ug/L	941.040
⌈>	72	Ge-1			430129.067	ug/L	365848.721
	65	Cu	4.246437	2.128	13774.112	ug/L	900.704
⌊	66	Zn	8.893415	2.709	23301.223	ug/L	7004.120
⌈>	197	Au-1			762713.746	ug/L	924783.275
	205	Tl	0.283653	39.376	11138.880	ug/L	7516.719
⌊	208	Pb	0.281366	3.172	11378.858	ug/L	5342.778
⌈>	197	Au-2			762713.746	ug/L	924783.275
	206	Pb	0.296678	4.175	2949.334	ug/L	1321.741
⌊	207	Pb	0.286752	3.843	2543.252	ug/L	1194.729
⌈>	45	Sc			230450.607	ug/L	257624.800
⌊	47	Ti	4461.509940	1.756	2686801.494	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	89.452	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	117.570	
	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	82.475	
	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	82.475	
	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	89.452	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE ZN 10
Sample Date/Time: Tuesday, April 13, 2010 15:30:54
Autosampler Position: 191
Dataset File: D:\Elandata\Dataset\041310M1\TRACE ZN 10.056

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			249159.546	ug/L	257624.800
	23	Na	151.123312	11.169	636115.851	ug/L	50199.597
	24	Mg	150.164001	6.771	406408.950	ug/L	21102.507
	27	Al	123.078932	9.549	516294.220	ug/L	31736.052
	39	K	191.653959	13.110	2029235.363	ug/L	785433.802
	44	Ca	237.380368	14.152	142317.718	ug/L	89592.624
	57	Fe	169.476468	9.653	56892.618	ug/L	16392.144
	9	Be	0.606305	7.372	257.338	ug/L	46.334
	51	V	11.083473	10.694	48596.375	ug/L	-38525.530
	52	Cr	11.283108	5.009	113731.515	ug/L	34443.159
	55	Mn	2.470584	5.170	32146.787	ug/L	4030.943
	59	Co	2.562608	2.395	24782.420	ug/L	1553.100
	60	Ni	5.807835	1.400	13160.193	ug/L	941.040
>	72	Ge-1			363596.715	ug/L	365848.721
	65	Cu	1.282079	1.772	4138.974	ug/L	900.704
	66	Zn	6.956654	4.552	16917.850	ug/L	7004.120
>	197	Au-1			901862.810	ug/L	924783.275
	205	Tl	1.926996	6.942	46933.578	ug/L	7516.719
	208	Pb	3.231220	3.277	99849.674	ug/L	5342.778
>	197	Au-2			901862.810	ug/L	924783.275
	206	Pb	3.166354	2.908	24742.324	ug/L	1321.741
	207	Pb	3.285687	2.117	22265.227	ug/L	1194.729
>	45	Sc			249159.546	ug/L	257624.800
	47	Tl	9.732647	7.617	12670.744	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.714	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.384	
	Cu	65		
	Zn	66		
>	Au-1	197	97.522	
	Tl	205		
	Pb	208		
>	Au-2	197	97.522	
	Pb	206		
	Pb	207		
>	Sc	45	96.714	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 15:34:44
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.057

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			237695.907	ug/L	257624.800
	23	Na	3870.745168	1.205	14439837.224	ug/L	50199.597
	24	Mg	7724.014613	2.537	18985691.875	ug/L	21102.507
	27	Al	3841.625333	2.391	14520182.071	ug/L	31736.052
	39	K	3992.647325	0.484	26027705.139	ug/L	785433.802
	44	Ca	8108.522487	1.848	1902501.168	ug/L	89592.624
	57	Fe	7935.944258	3.735	1851954.234	ug/L	16392.144
	9	Be	1015.411214	0.731	340142.343	ug/L	46.334
	51	V	993.471902	2.918	7307919.869	ug/L	-38525.530
	52	Cr	1031.144760	1.471	7049404.042	ug/L	34443.159
	55	Mn	1011.896983	2.812	11053203.446	ug/L	4030.943
	59	Co	1001.180063	3.657	8676199.059	ug/L	1553.100
	60	Ni	964.885316	1.358	1942937.633	ug/L	941.040
>	72	Ge-1			329867.899	ug/L	365848.721
	65	Cu	1021.263124	2.909	2345162.073	ug/L	900.704
	66	Zn	995.438324	1.563	1299640.255	ug/L	7004.120
>	197	Au-1			862481.621	ug/L	924783.275
	205	Tl	985.795869	0.938	19389372.369	ug/L	7516.719
	208	Pb	989.345209	2.589	27722776.865	ug/L	5342.778
>	197	Au-2			862481.621	ug/L	924783.275
	206	Pb	961.337999	1.257	6812683.645	ug/L	1321.741
	207	Pb	996.719392	2.094	6123314.829	ug/L	1194.729
>	45	Sc			237695.907	ug/L	257624.800
	47	Ti	982.784356	1.827	615326.555	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.264	
	Na	23		96.769
	Mg	24		96.550
	Al	27		96.041
	K	39		99.816
	Ca	44		101.357
	Fe	57		99.199
	Be	9		101.541
	V	51		99.347
	Cr	52		103.114
	Mn	55		101.190
	Co	59		100.118
	Ni	60		96.489
>	Ge-1	72	90.165	
	Cu	65		102.126
	Zn	66		99.544
>	Au-1	197	93.263	
	Tl	205		98.580
	Pb	208		98.935
>	Au-2	197	93.263	
	Pb	206		96.134
	Pb	207		99.672
>	Sc	45	92.264	
	Ti	47		98.278

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 15:39:04
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.058

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			223578.814	ug/L	257624.800
	23	Na	3.993757	107.845	57682.030	ug/L	50199.597
	24	Mg	5.388607	82.685	30877.020	ug/L	21102.507
	27	Al	3.077465	112.977	38591.673	ug/L	31736.052
	39	K	9.818426	32.285	740241.655	ug/L	785433.802
	44	Ca	20.815775	45.564	82116.150	ug/L	89592.624
	57	Fe	4.953923	112.719	15310.583	ug/L	16392.144
	9	Be	0.562118	29.682	218.004	ug/L	46.334
	51	V	-2.896506	172.291	-53043.804	ug/L	-38525.530
	52	Cr	0.139335	65.862	30787.476	ug/L	34443.159
	55	Mn	0.568378	31.158	9356.247	ug/L	4030.943
	59	Co	0.539614	37.603	5764.959	ug/L	1553.100
	60	Ni	0.496739	42.652	1761.797	ug/L	941.040
>	72	Ge-1			327602.977	ug/L	365848.721
	65	Cu	0.585498	37.512	2142.188	ug/L	900.704
	66	Zn	0.561731	13.557	6996.450	ug/L	7004.120
>	197	Au-1			856119.393	ug/L	924783.275
	205	Tl	2.011596	31.140	46263.532	ug/L	7516.719
	208	Pb	0.548028	34.940	20207.057	ug/L	5342.778
>	197	Au-2			856119.393	ug/L	924783.275
	206	Pb	0.530256	38.281	4958.293	ug/L	1321.741
	207	Pb	0.561138	37.224	4532.137	ug/L	1194.729
>	45	Sc			223578.814	ug/L	257624.800
	47	Ti	1.335085	21.303	6480.201	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	86.785	
	Na	23		399.376
	Mg	24		538.861
	Al	27		307.746
	K	39		981.843
	Ca	44		2081.577
	Fe	57		495.392
	Be	9		56.212
	V	51		-289.651
	Cr	52		13.933
	Mn	55		56.838
	Co	59		53.961
	Ni	60		49.674
>	Ge-1	72	89.546	
	Cu	65		58.550
	Zn	66		56.173
>	Au-1	197	92.575	
	Tl	205		201.160
	Pb	208		54.803
>	Au-2	197	92.575	
	Pb	208		53.028
	Pb	207		56.114
>	Sc	45	86.785	
	Ti	47		133.508

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
V	51	Q
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNG4B
Sample Date/Time: Tuesday, April 13, 2010 16:02:46
Autosampler Position: 11
Dataset File: D:\Elandata\Dataset\041310M1\LXNG4B.059

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			234271.085	ug/L	257624.800
	23	Na	7.440479	8.381	72913.804	ug/L	50199.597
	24	Mg	-4.696365	7.635	7826.575	ug/L	21102.507
	27	Al	0.142900	163.551	29394.203	ug/L	31736.052
	39	K	-3.863666	66.091	689901.931	ug/L	785433.802
	44	Ca	57.996791	21.902	94271.367	ug/L	89592.624
	57	Fe	-6.189819	48.527	13490.566	ug/L	16392.144
	9	Be	-0.051966	15.747	25.000	ug/L	46.334
	51	V	-0.966598	37.765	-42074.375	ug/L	-38525.530
	52	Cr	-0.569946	60.042	27472.076	ug/L	34443.159
	55	Mn	0.025145	59.181	3934.248	ug/L	4030.943
	59	Co	-0.079791	14.596	731.360	ug/L	1553.100
	60	Ni	-0.015322	43.434	825.365	ug/L	941.040
>	72	Ge-1			338721.315	ug/L	365848.721
	65	Cu	-0.011503	193.105	806.031	ug/L	900.704
	66	Zn	4.257914	3.693	12162.632	ug/L	7004.120
>	197	Au-1			863416.261	ug/L	924783.275
	205	Tl	0.757739	45.002	21867.536	ug/L	7516.719
	208	Pb	-0.031223	61.720	4105.939	ug/L	5342.778
>	197	Au-2			863416.261	ug/L	924783.275
	206	Pb	-0.034733	47.650	986.377	ug/L	1321.741
	207	Pb	-0.024517	86.771	963.042	ug/L	1194.729
>	45	Sc			234271.085	ug/L	257624.800
	47	Ti	0.937653	88.100	6545.569	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.935	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.585	
	Cu	65		
	Zn	66		
>	Au-1	197	93.364	
	Tl	205		
	Pb	208		
>	Au-2	197	93.364	
	Pb	206		
	Pb	207		
>	Sc	45	90.935	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNG4C
Sample Date/Time: Tuesday, April 13, 2010 16:06:34
Autosampler Position: 12
Dataset File: D:\Elandata\Dataset\041310M1\LXNG4C.060

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			234183.064	ug/L	257624.800
	23	Na	10297.830195	4.044	37735121.506	ug/L	50199.597
	24	Mg	10196.401216	4.307	24661529.349	ug/L	21102.507
	27	Al	9977.287973	1.878	37091441.367	ug/L	31736.052
	39	K	10295.399290	3.659	64946941.230	ug/L	785433.802
	44	Ca	10281.377296	2.507	2353828.039	ug/L	89592.624
	57	Fe	10170.022216	4.054	2332073.874	ug/L	16392.144
	9	Be	1044.749245	4.276	344445.932	ug/L	46.334
	51	V	1085.456655	4.317	7861924.002	ug/L	-38525.530
	52	Cr	1078.330611	5.685	7251392.142	ug/L	34443.159
	55	Mn	1022.039775	3.417	10990571.795	ug/L	4030.943
	59	Co	1022.629530	3.609	8724716.806	ug/L	1553.100
	60	Ni	984.266294	3.243	1951093.973	ug/L	941.040
>	72	Ge-1			324377.953	ug/L	365848.721
	65	Cu	1012.961681	1.775	2287702.415	ug/L	900.704
	66	Zn	968.803382	3.102	1243857.170	ug/L	7004.120
>	197	Au-1			826131.376	ug/L	924783.275
	205	Tl	1109.400742	2.776	20888120.578	ug/L	7516.719
	208	Pb	1074.282581	2.994	28817567.321	ug/L	5342.778
>	197	Au-2			826131.376	ug/L	924783.275
	206	Pb	1035.412314	4.749	7021298.747	ug/L	1321.741
	207	Pb	1121.948831	3.461	6597456.610	ug/L	1194.729
>	45	Sc			234183.064	ug/L	257624.800
	47	Ti	1043.352088	4.225	642517.738	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.901	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	88.665	
	Cu	65		
	Zn	66		
>	Au-1	197	89.332	
	Tl	205		
	Pb	208		
>	Au-2	197	89.332	
	Pb	206		
	Pb	207		
>	Sc	45	90.901	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Cu	65	H
Tl	205	H
Pb	208	H

Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEE
Sample Date/Time: Tuesday, April 13, 2010 16:10:22
Autosampler Position: 13
Dataset File: D:\Elandata\Dataset\041310M1\LXKEE.061

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217234.853	ug/L	257624.800
	23	Na	60.686128	4.797	248396.278	ug/L	50199.597
	24	Mg	5.415663	3.901	29954.035	ug/L	21102.507
	27	Al	4.920501	8.908	43751.501	ug/L	31736.052
	39	K	2.598071	92.065	677125.306	ug/L	785433.802
	44	Ca	93.990200	16.318	94768.920	ug/L	89592.624
	57	Fe	5.804410	45.853	15042.312	ug/L	16392.144
	9	Be	0.221910	10.052	107.001	ug/L	46.334
	51	V	0.483027	506.688	-28920.009	ug/L	-38525.530
	52	Cr	-0.194783	92.055	27811.326	ug/L	34443.159
	55	Mn	0.526164	2.615	8648.037	ug/L	4030.943
	59	Co	0.203881	9.070	2926.997	ug/L	1553.100
	60	Ni	0.683587	1.050	2050.834	ug/L	941.040
>	72	Ge-1			313668.442	ug/L	365848.721
	65	Cu	11.206717	3.780	25244.911	ug/L	900.704
	66	Zn	10.909157	1.349	19484.146	ug/L	7004.120
>	197	Au-1			836317.584	ug/L	924783.275
	205	Tl	1.623579	33.917	37724.597	ug/L	7516.719
	208	Pb	0.306771	19.852	13161.528	ug/L	5342.778
>	197	Au-2			836317.584	ug/L	924783.275
	206	Pb	0.293064	20.158	3207.729	ug/L	1321.741
	207	Pb	0.319523	16.955	2982.677	ug/L	1194.729
>	45	Sc			217234.853	ug/L	257624.800
	47	Ti	4.522865	11.801	8099.376	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	84.322	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	85.737	
	Cu	65		
	Zn	66		
>	Au-1	197	90.434	
	Tl	205		
	Pb	208		
>	Au-2	197	90.434	
	Pb	206		
	Pb	207		
>	Sc	45	84.322	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEEV
Sample Date/Time: Tuesday, April 13, 2010 16:14:11
Autosampler Position: 14
Dataset File: D:\Elandata\Dataset\041310M1\LXKEEV.062

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			223377.849	ug/L	257624.800
|	23	Na	7.682975	8.292	70386.856	ug/L	50199.597
|	24	Mg	-3.932163	5.997	9221.407	ug/L	21102.507
|	27	Al	-3.346421	3.503	15653.398	ug/L	31736.052
|	39	K	-1.230520	74.357	673678.599	ug/L	785433.802
|	44	Ca	24.138313	24.807	82766.566	ug/L	89592.624
|	57	Fe	-10.576702	24.414	11914.248	ug/L	16392.144
|	9	Be	0.013344	161.930	44.334	ug/L	46.334
|	51	V	-2.339696	125.575	-49646.878	ug/L	-38525.530
|	52	Cr	-0.439836	33.852	27045.860	ug/L	34443.159
|	55	Mn	0.062843	20.395	4139.308	ug/L	4030.943
|	59	Co	-0.019753	60.721	1185.395	ug/L	1553.100
⌊	60	Ni	0.027740	93.058	868.368	ug/L	941.040
⌈>	72	Ge-1			313991.327	ug/L	365848.721
|	65	Cu	2.167621	1.854	5511.118	ug/L	900.704
⌊	66	Zn	2.972468	2.707	9688.716	ug/L	7004.120
⌈>	197	Au-1			854332.984	ug/L	924783.275
|	205	Tl	0.301490	16.378	12802.540	ug/L	7516.719
⌊	208	Pb	-0.002892	519.074	4852.368	ug/L	5342.778
⌈>	197	Au-2			854332.984	ug/L	924783.275
|	206	Pb	-0.004313	350.272	1190.728	ug/L	1321.741
⌊	207	Pb	0.005127	314.935	1134.057	ug/L	1194.729
⌈>	45	Sc			223377.849	ug/L	257624.800
⌊	47	Tl	2.664124	14.015	7249.912	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	86.707	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	85.825	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	92.382	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	92.382	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	86.707	
⌊	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEES

Sample Date/Time: Tuesday, April 13, 2010 16:17:59

Autosampler Position: 15

Dataset File: D:\Elandata\Dataset\041310M1\LXKEES.063

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216678.066	ug/L	257624.800
	23	Na	9648.760028	1.115	32749061.517	ug/L	50199.597
	24	Mg	9482.846190	2.090	21244140.294	ug/L	21102.507
	27	Al	9519.777705	3.546	32760757.434	ug/L	31736.052
	39	K	9940.712070	2.324	58085255.721	ug/L	785433.802
	44	Ca	10061.748677	2.408	2133793.076	ug/L	89592.624
	57	Fe	10172.230096	0.660	2160447.444	ug/L	16392.144
	9	Be	1083.180118	1.674	330737.022	ug/L	46.334
	51	V	1044.110721	3.307	7004666.014	ug/L	-38525.530
	52	Cr	1023.736724	2.597	6381270.061	ug/L	34443.159
	55	Mn	1002.677380	2.293	9985899.711	ug/L	4030.943
	59	Co	1034.631253	0.940	8174124.610	ug/L	1553.100
	60	Ni	985.169777	1.015	1808305.324	ug/L	941.040
>	72	Ge-1			308072.895	ug/L	365848.721
	65	Cu	1017.927318	1.760	2183708.217	ug/L	900.704
	66	Zn	962.426817	1.840	1173590.831	ug/L	7004.120
>	197	Au-1			810255.861	ug/L	924783.275
	205	Tl	1067.776223	1.210	19731060.321	ug/L	7516.719
	208	Pb	1026.301365	1.379	27021190.845	ug/L	5342.778
>	197	Au-2			810255.861	ug/L	924783.275
	206	Pb	990.745352	1.174	6596489.505	ug/L	1321.741
	207	Pb	1065.320403	3.871	6149637.156	ug/L	1194.729
>	45	Sc			216678.066	ug/L	257624.800
	47	Ti	1030.998214	1.653	588199.304	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	84.106	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	84.208	
	Cu	65		
	Zn	66		
>	Au-1	197	87.616	
	Tl	205		
	Pb	208		
>	Au-2	197	87.616	
	Pb	206		
	Pb	207		
>	Sc	45	84.106	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Cu	65	H
Tl	205	H
Pb	208	H

Tl 47 H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEED
Sample Date/Time: Tuesday, April 13, 2010 16:21:48
Autosampler Position: 16
Dataset File: D:\Elandata\Dataset\041310M1\LXKEED.064

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			214199.595	ug/L	257624.800
|	23	Na	9948.856287	1.723	33377469.476	ug/L	50199.597
|	24	Mg	10040.109520	1.865	22232322.360	ug/L	21102.507
|	27	Al	9844.833257	0.500	33493635.011	ug/L	31736.052
|	39	K	10230.432654	1.725	59071523.511	ug/L	785433.802
|	44	Ca	10355.493166	2.686	2168527.549	ug/L	89592.624
|	57	Fe	10543.060275	3.621	2212246.929	ug/L	16392.144
|	9	Be	1121.808303	3.806	338506.355	ug/L	46.334
|	51	V	1026.587044	3.875	6805565.349	ug/L	-38525.530
|	52	Cr	1047.563776	4.157	6451577.883	ug/L	34443.159
|	55	Mn	1042.817431	2.921	10263161.908	ug/L	4030.943
|	59	Co	1097.441193	3.337	8569870.229	ug/L	1553.100
⌊	60	Ni	1029.732259	1.570	1868445.283	ug/L	941.040
⌈>	72	Ge-1			313700.658	ug/L	365848.721
|	65	Cu	1028.485586	0.292	2246545.468	ug/L	900.704
⌊	66	Zn	978.400756	1.515	1215121.524	ug/L	7004.120
⌈>	197	Au-1			809868.987	ug/L	924783.275
|	205	Tl	1060.150359	0.336	19580068.449	ug/L	7516.719
⌊	208	Pb	1062.467226	1.796	27961151.368	ug/L	5342.778
⌈>	197	Au-2			809868.987	ug/L	924783.275
|	206	Pb	1006.021449	0.641	6695167.719	ug/L	1321.741
⌊	207	Pb	1102.663599	3.637	6361921.503	ug/L	1194.729
⌈>	45	Sc			214199.595	ug/L	257624.800
⌊	47	Ti	1037.216341	1.496	584819.123	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	83.144	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	85.746	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	87.574	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	87.574	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	83.144	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Cu	65	H
Zn	66	H

Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXMEQ
Sample Date/Time: Tuesday, April 13, 2010 16:25:37
Autosampler Position: 17
Dataset File: D:\Elandata\Dataset\041310M1\LXMEQ.065

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			246602.062	ug/L	257624.800
	23	Na	11776.251638	1.835	45474788.564	ug/L	50199.597
	24	Mg	2746.855792	3.490	7016257.603	ug/L	21102.507
	27	Al	40.193456	2.306	187640.504	ug/L	31736.052
	39	K	185.870448	4.344	1973335.744	ug/L	785433.802
	44	Ca	6947.451903	1.145	1703481.746	ug/L	89592.624
	57	Fe	18.486588	37.058	20118.599	ug/L	16392.144
	9	Be	0.329745	12.387	159.002	ug/L	46.334
	51	V	24.806454	13.211	153160.007	ug/L	-38525.530
	52	Cr	0.224917	23.588	34561.791	ug/L	34443.159
	55	Mn	1.354965	5.597	19203.099	ug/L	4030.943
	59	Co	0.347467	6.076	4608.456	ug/L	1553.100
	60	Ni	1.730860	5.576	4513.425	ug/L	941.040
>	72	Ge-1			335679.037	ug/L	365848.721
	65	Cu	1.183515	6.774	3589.821	ug/L	900.704
	66	Zn	13.904361	0.783	24810.444	ug/L	7004.120
>	197	Au-1			865176.297	ug/L	924783.275
	205	Tl	2.053716	19.168	47530.111	ug/L	7516.719
	208	Pb	0.501988	3.160	19107.196	ug/L	5342.778
>	197	Au-2			865176.297	ug/L	924783.275
	206	Pb	0.479303	5.295	4642.801	ug/L	1321.741
	207	Pb	0.522806	1.814	4339.369	ug/L	1194.729
>	45	Sc			246602.062	ug/L	257624.800
	47	Ti	5.741196	6.225	9981.586	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.721	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	91.754	
	Cu	65		
	Zn	66		
>	Au-1	197	93.554	
	Tl	205		
	Pb	208		
>	Au-2	197	93.554	
	Pb	206		
	Pb	207		
>	Sc	45	95.721	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXME1
Sample Date/Time: Tuesday, April 13, 2010 16:29:25
Autosampler Position: 18
Dataset File: D:\Elandata\Dataset\041310M1\LXME1.066

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			235449.186	ug/L	257624.800
	23	Na	757.626606	2.488	2837046.471	ug/L	50199.597
	24	Mg	31.015450	5.058	94745.867	ug/L	21102.507
	27	Al	-0.214970	74.378	28201.434	ug/L	31736.052
	39	K	11.348673	24.313	789012.014	ug/L	785433.802
	44	Ca	195.661227	4.898	125368.641	ug/L	89592.624
	57	Fe	-4.170155	45.044	14026.477	ug/L	16392.144
	9	Be	-0.048347	30.431	26.334	ug/L	46.334
	51	V	0.732624	275.886	-29908.859	ug/L	-38525.530
	52	Cr	0.484572	49.412	34736.570	ug/L	34443.159
	55	Mn	0.227611	14.747	6148.388	ug/L	4030.943
	59	Co	-0.061222	32.006	894.704	ug/L	1553.100
	60	Ni	0.196266	3.970	1251.401	ug/L	941.040
>	72	Ge-1			337959.087	ug/L	365848.721
	65	Cu	1.075825	7.245	3360.096	ug/L	900.704
	66	Zn	13.314407	6.009	24183.707	ug/L	7004.120
>	197	Au-1			864023.932	ug/L	924783.275
	205	Tl	0.477651	16.875	16407.616	ug/L	7516.719
	208	Pb	0.339366	11.399	14502.339	ug/L	5342.778
>	197	Au-2			864023.932	ug/L	924783.275
	206	Pb	0.337347	10.680	3626.831	ug/L	1321.741
	207	Pb	0.353858	4.878	3292.079	ug/L	1194.729
>	45	Sc			235449.186	ug/L	257624.800
	47	Ti	3.377168	1.955	8080.699	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	91.392	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.377	
	Cu	65		
	Zn	66		
>	Au-1	197	93.430	
	Tl	205		
	Pb	208		
>	Au-2	197	93.430	
	Pb	206		
	Pb	207		
>	Sc	45	91.392	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGB
Sample Date/Time: Tuesday, April 13, 2010 16:33:14
Autosampler Position: 19
Dataset File: D:\Elandata\Dataset\041310M1\LXRAGB.067

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			253417.857	ug/L	257624.800
	23	Na	9.754558	6.432	88068.457	ug/L	50199.597
	24	Mg	-5.605926	0.943	6082.023	ug/L	21102.507
	27	Al	-3.133904	5.111	18607.633	ug/L	31736.052
	39	K	-10.740818	16.262	699907.686	ug/L	785433.802
	44	Ca	17.546919	35.331	92312.550	ug/L	89592.624
	57	Fe	-7.603915	22.549	14243.211	ug/L	16392.144
	9	Be	-0.102577	14.850	9.000	ug/L	46.334
	51	V	-2.504291	41.368	-57716.958	ug/L	-38525.530
	52	Cr	1.967656	10.222	48144.487	ug/L	34443.159
	55	Mn	-0.019320	43.258	3739.860	ug/L	4030.943
	59	Co	-0.142991	3.383	207.004	ug/L	1553.100
[	60	Ni	-0.121608	25.442	664.356	ug/L	941.040
[>	72	Ge-1			348587.306	ug/L	365848.721
	65	Cu	-0.029339	76.360	786.696	ug/L	900.704
[	66	Zn	2.020703	9.017	9446.217	ug/L	7004.120
[>	197	Au-1			871142.204	ug/L	924783.275
	205	Tl	0.226923	20.703	11588.168	ug/L	7516.719
[	208	Pb	-0.083526	5.062	2668.787	ug/L	5342.778
[>	197	Au-2			871142.204	ug/L	924783.275
	206	Pb	-0.082244	7.404	656.355	ug/L	1321.741
[	207	Pb	-0.073704	6.896	668.022	ug/L	1194.729
[>	45	Sc			253417.857	ug/L	257624.800
[	47	Ti	2.981253	11.267	8433.573	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	98.367	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	95.282	
	Cu	65		
[	Zn	66		
[>	Au-1	197	94.200	
	Tl	205		
[	Pb	208		
[>	Au-2	197	94.200	
	Pb	206		
[	Pb	207		
[>	Sc	45	98.367	
[	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGC
Sample Date/Time: Tuesday, April 13, 2010 16:37:03
Autosampler Position: 20
Dataset File: D:\Elandata\Dataset\041310M1\LXRAGC.068

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			241774.170	ug/L	257624.800
	23	Na	9873.357103	6.871	37326397.516	ug/L	50199.597
	24	Mg	9633.119324	7.837	24034379.690	ug/L	21102.507
	27	Al	9656.827331	6.885	37016687.373	ug/L	31736.052
	39	K	9951.166653	8.023	64751385.846	ug/L	785433.802
	44	Ca	9901.389476	4.724	2341780.188	ug/L	89592.624
	57	Fe	9862.382303	5.948	2334300.410	ug/L	16392.144
	9	Be	1024.954386	4.853	348801.120	ug/L	46.334
	51	V	1020.446713	1.431	7635264.411	ug/L	-38525.530
	52	Cr	1015.983634	2.108	7062832.435	ug/L	34443.159
	55	Mn	982.328840	3.952	10904853.724	ug/L	4030.943
	59	Co	1015.865633	4.388	8945744.815	ug/L	1553.100
	60	Ni	955.611423	3.752	1955610.929	ug/L	941.040
[>	72	Ge-1			336255.386	ug/L	365848.721
	65	Cu	966.921044	0.799	2263928.084	ug/L	900.704
	66	Zn	911.391646	0.172	1213631.686	ug/L	7004.120
[>	197	Au-1			811273.215	ug/L	924783.275
	205	Tl	1055.956645	1.589	19535822.523	ug/L	7516.719
	208	Pb	1033.436418	1.334	27241355.184	ug/L	5342.778
[>	197	Au-2			811273.215	ug/L	924783.275
	206	Pb	987.037621	1.904	6580270.235	ug/L	1321.741
	207	Pb	1068.717987	2.341	6175789.541	ug/L	1194.729
[>	45	Sc			241774.170	ug/L	257624.800
	47	Ti	1019.642345	3.345	648565.340	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	93.847	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
[>	Ge-1	72	91.911	
	Cu	65		
	Zn	66		
[>	Au-1	197	87.726	
	Tl	205		
	Pb	208		
[>	Au-2	197	87.726	
	Pb	206		
	Pb	207		
[>	Sc	45	93.847	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Co	59	H
Tl	205	H
Pb	208	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 16:40:53
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.069

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			224702.782	ug/L	257624.800
	23	Na	3816.600933	1.399	13462204.094	ug/L	50199.597
	24	Mg	7620.327152	3.232	17703249.271	ug/L	21102.507
	27	Al	3783.164903	3.860	13513083.830	ug/L	31736.052
	39	K	3895.393150	2.987	24016429.959	ug/L	785433.802
	44	Ca	8002.081419	2.065	1775674.514	ug/L	89592.624
	57	Fe	7591.561177	1.711	1675392.402	ug/L	16392.144
	9	Be	1072.903403	1.652	339726.572	ug/L	46.334
	51	V	972.534627	1.557	6762302.737	ug/L	-38525.530
	52	Cr	983.538379	1.309	6357754.245	ug/L	34443.159
	55	Mn	969.615091	0.997	10014656.893	ug/L	4030.943
	59	Co	976.746354	2.236	8000632.763	ug/L	1553.100
	60	Ni	972.382693	3.958	1850037.234	ug/L	941.040
>	72	Ge-1			314993.408	ug/L	365848.721
	65	Cu	992.258065	4.546	2176033.773	ug/L	900.704
	66	Zn	983.282332	1.770	1226006.587	ug/L	7004.120
>	197	Au-1			833650.700	ug/L	924783.275
	205	Tl	1020.126993	1.950	19393291.080	ug/L	7516.719
	208	Pb	977.283890	0.843	26471782.583	ug/L	5342.778
>	197	Au-2			833650.700	ug/L	924783.275
	206	Pb	952.998585	0.732	6528052.097	ug/L	1321.741
	207	Pb	983.992162	2.432	5843399.346	ug/L	1194.729
>	45	Sc			224702.782	ug/L	257624.800
	47	Ti	973.913584	1.874	576337.752	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	87.221	
	Na	23		95.415
	Mg	24		95.254
	Al	27		94.579
	K	39		97.385
	Ca	44		100.026
	Fe	57		94.895
	Be	9		107.290
	V	51		97.253
	Cr	52		98.354
	Mn	55		96.962
	Co	59		97.675
	Ni	60		97.238
>	Ge-1	72	88.099	
	Cu	65		99.228
	Zn	66		98.328
>	Au-1	197	90.146	
	Tl	205		102.013
	Pb	208		97.728
>	Au-2	197	90.146	
	Pb	206		95.300
	Pb	207		98.399
>	Sc	45	87.221	
	Ti	47		97.391

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 16:45:13
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.070

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216127.810	ug/L	257624.800
	23	Na	-4.996885	17.269	25205.644	ug/L	50199.597
	24	Mg	-2.446305	42.379	12231.138	ug/L	21102.507
	27	Al	-3.624296	16.875	14184.608	ug/L	31736.052
	39	K	1.330469	154.678	666543.057	ug/L	785433.802
	44	Ca	27.069036	17.489	80681.668	ug/L	89592.624
	57	Fe	-6.218012	19.270	12442.327	ug/L	16392.144
	9	Be	0.436630	36.189	171.669	ug/L	46.334
	51	V	-0.156802	695.763	-33354.187	ug/L	-38525.530
	52	Cr	0.040421	242.140	29148.012	ug/L	34443.159
	55	Mn	0.405767	32.483	7405.697	ug/L	4030.943
	59	Co	0.355684	34.603	4101.650	ug/L	1553.100
	60	Ni	0.290877	34.912	1321.075	ug/L	941.040
>	72	Ge-1			318826.879	ug/L	365848.721
	65	Cu	0.365922	36.650	1594.107	ug/L	900.704
	66	Zn	0.683041	12.019	6961.099	ug/L	7004.120
>	197	Au-1			850524.448	ug/L	924783.275
	205	Tl	2.477212	28.788	54770.392	ug/L	7516.719
	208	Pb	0.423104	34.907	16551.447	ug/L	5342.778
>	197	Au-2			850524.448	ug/L	924783.275
	206	Pb	0.391530	31.963	3940.598	ug/L	1321.741
	207	Pb	0.427801	31.506	3679.857	ug/L	1194.729
>	45	Sc			216127.810	ug/L	257624.800
	47	Ti	4.144921	5.132	7850.569	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	83.892	
	Na	23		-499.688
	Mg	24		-244.631
	Al	27		-362.430
	K	39		133.047
	Ca	44		2706.904
	Fe	57		-621.801
	Be	9		43.663
	V	51		-15.680
	Cr	52		4.042
	Mn	55		40.577
	Co	59		35.568
	Ni	60		29.088
>	Ge-1	72	87.147	
	Cu	65		36.592
	Zn	66		68.304
>	Au-1	197	91.970	
	Tl	205		247.721
	Pb	208		42.310
>	Au-2	197	91.970	
	Pb	206		39.153
	Pb	207		42.780
>	Sc	45	83.892	
	Ti	47		414.492

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XV
Sample Date/Time: Tuesday, April 13, 2010 16:49:32
Autosampler Position: 21
Dataset File: D:\Elandata\Dataset\041310M1\LW2XV.071

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			270002.986	ug/L	257624.800
23	Na	452.162269	1.539	1962247.618	ug/L	50199.597
24	Mg	9045.164879	1.111	25252309.651	ug/L	21102.507
27	Al	2738.802254	2.708	11766543.001	ug/L	31736.052
39	K	1164.337325	1.576	9203404.013	ug/L	785433.802
44	Ca	15686.834950	3.838	4095335.715	ug/L	89592.624
57	Fe	2807.917098	1.637	755388.671	ug/L	16392.144
9	Be	0.318296	6.324	169.669	ug/L	46.334
51	V	1.499688	106.839	-27681.272	ug/L	-38525.530
52	Cr	4.330207	6.308	69548.257	ug/L	34443.159
55	Mn	372.890295	4.243	4628086.369	ug/L	4030.943
59	Co	3.014096	2.993	31287.542	ug/L	1553.100
60	Ni	3.130335	4.070	8141.068	ug/L	941.040
72	Ge-1			346161.118	ug/L	365848.721
65	Cu	2.691264	2.181	7337.959	ug/L	900.704
66	Zn	25.421362	1.104	41289.344	ug/L	7004.120
197	Au-1			819820.231	ug/L	924783.275
205	Tl	1.519456	20.598	35126.448	ug/L	7516.719
208	Pb	8.189410	1.786	222804.703	ug/L	5342.778
197	Au-2			819820.231	ug/L	924783.275
206	Pb	8.433813	1.156	57969.299	ug/L	1321.741
207	Pb	7.818670	2.704	46698.008	ug/L	1194.729
45	Sc			270002.986	ug/L	257624.800
47	Ti	39.381553	3.265	34608.551	ug/L	6572.911

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	104.805	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	94.619	
Cu	65		
Zn	66		
Au-1	197	88.650	
Tl	205		
Pb	208		
Au-2	197	88.650	
Pb	206		
Pb	207		
Sc	45	104.805	
Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVV
Sample Date/Time: Tuesday, April 13, 2010 16:53:21
Autosampler Position: 22
Dataset File: D:\Elandata\Dataset\041310M1\LW2XVV.072

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			241890.718	ug/L	257624.800
	23	Na	95.834484	4.444	409516.430	ug/L	50199.597
	24	Mg	1966.977385	4.485	4931741.757	ug/L	21102.507
	27	Al	611.704887	5.893	2375553.772	ug/L	31736.052
	39	K	247.291542	6.877	2330487.171	ug/L	785433.802
	44	Ca	3602.053484	3.030	906426.407	ug/L	89592.624
	57	Fe	628.360275	4.399	163364.931	ug/L	16392.144
	9	Be	0.031865	16.806	54.334	ug/L	46.334
	51	V	1.073758	115.566	-28257.926	ug/L	-38525.530
	52	Cr	0.691425	26.249	37106.167	ug/L	34443.159
	55	Mn	84.764010	1.947	945621.371	ug/L	4030.943
	59	Co	0.609469	4.010	6829.701	ug/L	1553.100
[	60	Ni	0.636210	4.292	2185.856	ug/L	941.040
[>	72	Ge-1			341149.519	ug/L	365848.721
	65	Cu	0.538034	1.182	2117.511	ug/L	900.704
[	66	Zn	6.247632	6.207	14921.941	ug/L	7004.120
[>	197	Au-1			865969.824	ug/L	924783.275
	205	Tl	0.338333	22.851	13692.394	ug/L	7516.719
[	208	Pb	1.481954	4.213	46662.552	ug/L	5342.778
[>	197	Au-2			865969.824	ug/L	924783.275
	206	Pb	1.543186	6.355	12203.669	ug/L	1321.741
[	207	Pb	1.422052	3.796	9884.518	ug/L	1194.729
[>	45	Sc			241890.718	ug/L	257624.800
[	47	Tl	10.535608	7.005	12809.869	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	93.893	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	93.249	
	Cu	65		
[	Zn	66		
[>	Au-1	197	93.640	
	Tl	205		
[	Pb	208		
[>	Au-2	197	93.640	
	Pb	206		
[	Pb	207		
[>	Sc	45	93.893	
[	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVS
Sample Date/Time: Tuesday, April 13, 2010 16:57:10
Autosampler Position: 23
Dataset File: D:\Elandata\Dataset\041310M1\LW2XVS.073

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			279831.467	ug/L	257624.800
	23	Na	8823.282574	2.278	38665413.751	ug/L	50199.597
	24	Mg	16647.213136	1.277	48139280.452	ug/L	21102.507
	27	Al	13748.562132	6.146	61047332.110	ug/L	31736.052
	39	K	9968.021451	0.427	75222753.089	ug/L	785433.802
	44	Ca	22452.144835	4.482	6028165.665	ug/L	89592.624
	57	Fe	10860.738688	3.272	2976224.141	ug/L	16392.144
	9	Be	855.912600	2.156	337423.049	ug/L	46.334
	51	V	867.533021	5.388	7500191.408	ug/L	-38525.530
	52	Cr	859.321525	4.552	6916544.056	ug/L	34443.159
	55	Mn	1196.256099	3.950	15375237.603	ug/L	4030.943
	59	Co	864.781756	2.269	8820629.093	ug/L	1553.100
	60	Ni	820.245059	2.920	1943632.043	ug/L	941.040
>	72	Ge-1			348593.469	ug/L	365848.721
	65	Cu	942.193463	2.218	2286271.679	ug/L	900.704
	66	Zn	914.425675	0.805	1262160.831	ug/L	7004.120
>	197	Au-1			828479.375	ug/L	924783.275
	205	Tl	1012.326001	1.490	19128158.176	ug/L	7516.719
	208	Pb	1001.994353	4.439	26954542.529	ug/L	5342.778
>	197	Au-2			828479.375	ug/L	924783.275
	206	Pb	966.823905	3.321	6578556.003	ug/L	1321.741
	207	Pb	1046.099705	4.656	6169092.516	ug/L	1194.729
>	45	Sc			279831.467	ug/L	257624.800
	47	Ti	892.136158	4.447	657660.487	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	108.620	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.284	
	Cu	65		
	Zn	66		
>	Au-1	197	89.586	
	Tl	205		
	Pb	208		
>	Au-2	197	89.586	
	Pb	206		
	Pb	207		
>	Sc	45	108.620	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Tl	205	H
Pb	208	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVD
Sample Date/Time: Tuesday, April 13, 2010 17:00:58
Autosampler Position: 24
Dataset File: D:\Elandata\Dataset\041310M1\LW2XVD.074

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			276318.955	ug/L	257624.800
	23	Na	8964.074674	2.543	38793994.094	ug/L	50199.597
	24	Mg	16723.185239	1.521	47756293.372	ug/L	21102.507
	27	Al	13338.009417	1.518	58514830.255	ug/L	31736.052
	39	K	9935.273636	1.119	74029520.308	ug/L	785433.802
	44	Ca	22380.019519	1.708	5934335.476	ug/L	89592.624
	57	Fe	10803.149137	1.301	2924710.800	ug/L	16392.144
	9	Be	862.636854	1.130	335885.868	ug/L	46.334
	51	V	869.430017	0.740	7429635.099	ug/L	-38525.530
	52	Cr	878.608975	2.815	6986400.271	ug/L	34443.159
	55	Mn	1180.492529	3.201	14986478.592	ug/L	4030.943
	59	Co	858.172534	1.553	8646097.056	ug/L	1553.100
	60	Ni	810.762015	2.097	1897653.485	ug/L	941.040
>	72	Ge-1			351450.746	ug/L	365848.721
	65	Cu	913.927097	2.940	2235477.823	ug/L	900.704
	66	Zn	888.336824	2.538	1236153.153	ug/L	7004.120
>	197	Au-1			832897.984	ug/L	924783.275
	205	Tl	1029.382358	1.265	19551055.033	ug/L	7516.719
	208	Pb	994.037739	1.534	26895322.702	ug/L	5342.778
>	197	Au-2			832897.984	ug/L	924783.275
	206	Pb	960.652425	1.506	6574713.110	ug/L	1321.741
	207	Pb	1034.555328	1.618	6136337.520	ug/L	1194.729
>	45	Sc			276318.955	ug/L	257624.800
	47	Ti	914.514259	1.084	666019.831	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.256	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.065	
	Cu	65		
	Zn	66		
>	Au-1	197	90.064	
	Tl	205		
	Pb	208		
>	Au-2	197	90.064	
	Pb	206		
	Pb	207		
>	Sc	45	107.256	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Tl	205	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEB
Sample Date/Time: Tuesday, April 13, 2010 17:04:46
Autosampler Position: 25
Dataset File: D:\Elandata\Dataset\041310M1\LXRAEB.075

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			239234.045	ug/L	257624.800
|	23	Na	33.033087	5.069	170174.192	ug/L	50199.597
|	24	Mg	16.301503	6.601	59853.776	ug/L	21102.507
|	27	Al	18.219803	5.678	98597.173	ug/L	31736.052
|	39	K	14.884780	8.180	824207.938	ug/L	785433.802
|	44	Ca	49.766727	18.701	94412.227	ug/L	89592.624
|	57	Fe	19.067183	8.550	19660.377	ug/L	16392.144
|	9	Be	-0.049931	92.696	26.000	ug/L	46.334
|	51	V	-2.281390	50.909	-52680.182	ug/L	-38525.530
|	52	Cr	1.101198	9.614	39520.658	ug/L	34443.159
|	55	Mn	0.094438	64.802	4773.186	ug/L	4030.943
|	59	Co	-0.092348	40.270	633.023	ug/L	1553.100
⌊	60	Ni	-0.063112	62.080	745.027	ug/L	941.040
⌈>	72	Ge-1			344263.294	ug/L	365848.721
|	65	Cu	0.007972	357.461	867.035	ug/L	900.704
⌊	66	Zn	3.179041	0.899	10901.934	ug/L	7004.120
⌈>	197	Au-1			860538.394	ug/L	924783.275
|	205	Tl	1.694065	19.231	40206.453	ug/L	7516.719
⌊	208	Pb	0.073599	75.840	7023.767	ug/L	5342.778
⌈>	197	Au-2			860538.394	ug/L	924783.275
|	206	Pb	0.067524	72.684	1706.122	ug/L	1321.741
⌊	207	Pb	0.080166	75.780	1601.776	ug/L	1194.729
⌈>	45	Sc			239234.045	ug/L	257624.800
⌊	47	Ti	3.029891	13.175	7991.649	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	92.861	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.100	
|	Cu	55		
⌊	Zn	66		
⌈>	Au-1	197	93.053	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	93.053	
|	Pb	208		
⌊	Pb	207		
⌈>	Sc	45	92.861	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEC
Sample Date/Time: Tuesday, April 13, 2010 17:08:34
Autosampler Position: 26
Dataset File: D:\Elandata\Dataset\041310M1\LXRAEC.076

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			248235.211	ug/L	257624.800
|	23	Na	9521.920941	4.967	36986208.298	ug/L	50199.597
|	24	Mg	9542.334424	5.095	24465046.111	ug/L	21102.507
|	27	Al	9490.489575	2.034	37402956.401	ug/L	31736.052
|	39	K	9431.394197	4.718	63118219.787	ug/L	785433.802
|	44	Ca	9368.633219	1.794	2281964.942	ug/L	89592.624
|	57	Fe	9252.273375	6.031	2249736.604	ug/L	16392.144
|	9	Be	938.187614	2.918	328008.779	ug/L	46.334
|	51	V	945.510057	0.533	7262368.686	ug/L	-38525.530
|	52	Cr	931.928929	3.903	6651492.278	ug/L	34443.159
|	55	Mn	932.574650	4.829	10628956.449	ug/L	4030.943
|	59	Co	935.676474	2.893	8464625.541	ug/L	1553.100
⌊	60	Ni	894.034459	3.260	1879057.443	ug/L	941.040
⌈>	72	Ge-1			346729.867	ug/L	365848.721
|	65	Cu	897.103832	1.790	2165607.493	ug/L	900.704
⌊	66	Zn	857.631062	1.283	1177883.344	ug/L	7004.120
⌈>	197	Au-1			844721.511	ug/L	924783.275
|	205	Tl	978.338992	2.608	18841394.483	ug/L	7516.719
⌊	208	Pb	943.114716	2.516	25879210.884	ug/L	5342.778
⌈>	197	Au-2			844721.511	ug/L	924783.275
|	206	Pb	900.014996	2.456	6245655.957	ug/L	1321.741
⌊	207	Pb	974.645068	2.263	5863490.420	ug/L	1194.729
⌈>	45	Sc			248235.211	ug/L	257624.800
⌊	47	Ti	964.445818	1.420	630524.075	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	96.355	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.774	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	91.343	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	91.343	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	96.355	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVE
Sample Date/Time: Tuesday, April 13, 2010 17:12:22
Autosampler Position: 27
Dataset File: D:\Elandata\Dataset\041310M1\LXHVE.077

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			257718.984	ug/L	257624.800
	23	Na	116.289777	3.411	518972.446	ug/L	50199.597
	24	Mg	4.674853	3.811	33549.357	ug/L	21102.507
	27	Al	7.314504	5.342	61634.624	ug/L	31736.052
	39	K	162.350969	6.311	1899976.074	ug/L	785433.802
	44	Ca	65.959487	15.139	105631.487	ug/L	89592.624
	57	Fe	3.139540	150.118	17169.986	ug/L	16392.144
	9	Be	0.278655	14.082	147.336	ug/L	46.334
	51	V	-3.839444	72.289	-69633.196	ug/L	-38525.530
	52	Cr	1.810721	4.282	47815.743	ug/L	34443.159
	55	Mn	0.548256	5.019	10519.979	ug/L	4030.943
	59	Co	0.318096	9.232	4540.435	ug/L	1553.100
	60	Ni	0.411229	15.694	1836.803	ug/L	941.040
>	72	Ge-1			368216.681	ug/L	365848.721
	65	Cu	7.848844	0.240	21022.668	ug/L	900.704
	66	Zn	15.101456	1.421	28952.601	ug/L	7004.120
>	197	Au-1			883552.912	ug/L	924783.275
	205	Tl	1.942020	17.979	46348.179	ug/L	7516.719
	208	Pb	0.679666	5.711	24615.993	ug/L	5342.778
>	197	Au-2			883552.912	ug/L	924783.275
	206	Pb	0.639696	5.599	5906.615	ug/L	1321.741
	207	Pb	0.688044	5.971	5472.438	ug/L	1194.729
>	45	Sc			257718.984	ug/L	257624.800
	47	Tl	1.695585	29.605	7708.824	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.037	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	100.647	
	Cu	65		
	Zn	68		
>	Au-1	197	95.542	
	Tl	205		
	Pb	208		
>	Au-2	197	95.542	
	Pb	206		
	Pb	207		
>	Sc	45	100.037	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEV
Sample Date/Time: Tuesday, April 13, 2010 17:16:11
Autosampler Position: 28
Dataset File: D:\Elandata\Dataset\041310M1\LXHVEV.078

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			233382.933	ug/L	257624.800
	23	Na	19.552626	11.425	116720.017	ug/L	50199.597
	24	Mg	-2.539962	46.270	12952.822	ug/L	21102.507
	27	Al	-1.493488	63.563	23167.555	ug/L	31736.052
	39	K	33.216922	16.726	917556.875	ug/L	785433.802
	44	Ca	36.043929	33.421	89054.603	ug/L	89592.624
	57	Fe	-10.150392	9.254	12539.547	ug/L	16392.144
	9	Be	0.101136	45.297	75.001	ug/L	46.334
	51	V	-2.806280	78.875	-55110.888	ug/L	-38525.530
	52	Cr	0.364793	38.776	33621.855	ug/L	34443.159
	55	Mn	0.170545	43.462	5467.445	ug/L	4030.943
	59	Co	0.094010	80.778	2199.200	ug/L	1553.100
	60	Ni	0.099382	73.547	1047.049	ug/L	941.040
>	72	Ge-1			342960.226	ug/L	365848.721
	65	Cu	1.647169	3.709	4776.847	ug/L	900.704
	66	Zn	5.307182	3.278	13734.404	ug/L	7004.120
>	197	Au-1			881562.635	ug/L	924783.275
	205	Tl	0.592944	11.422	19092.668	ug/L	7516.719
	208	Pb	0.195820	35.161	10684.707	ug/L	5342.778
>	197	Au-2			881562.635	ug/L	924783.275
	206	Pb	0.174749	34.807	2521.918	ug/L	1321.741
	207	Pb	0.213246	37.302	2473.911	ug/L	1194.729
>	45	Sc			233382.933	ug/L	257624.800
	47	Ti	1.212516	32.118	6688.966	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.590	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	93.744	
	Cu	65		
	Zn	66		
>	Au-1	197	95.326	
	Tl	205		
	Pb	208		
>	Au-2	197	95.326	
	Pb	206		
	Pb	207		
>	Sc	45	90.590	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEX
Sample Date/Time: Tuesday, April 13, 2010 17:19:59
Autosampler Position: 29
Dataset File: D:\Elandata\Dataset\041310M1\LXHVEX.079

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			268423.269	ug/L	257624.800
	23	Na	103.513690	5.273	486701.800	ug/L	50199.597
	24	Mg	-2.938535	7.494	13831.168	ug/L	21102.507
	27	Al	-2.151196	10.491	23892.545	ug/L	31736.052
	39	K	140.987547	3.924	1826929.062	ug/L	785433.802
	44	Ca	29.390438	33.589	100764.804	ug/L	89592.624
	57	Fe	-11.348484	3.973	14111.287	ug/L	16392.144
	9	Be	-0.104751	3.567	8.667	ug/L	46.334
	51	V	-1.697519	168.686	-54278.662	ug/L	-38525.530
	52	Cr	1.318543	35.742	45975.837	ug/L	34443.159
	55	Mn	0.019183	62.834	4434.733	ug/L	4030.943
	59	Co	-0.129593	1.877	349.674	ug/L	1553.100
	60	Ni	-0.019107	131.136	936.707	ug/L	941.040
>	72	Ge-1			374763.034	ug/L	365848.721
	65	Cu	7.283795	1.680	19920.747	ug/L	900.704
	66	Zn	8.200278	1.664	19278.860	ug/L	7004.120
>	197	Au-1			883435.840	ug/L	924783.275
	205	Tl	0.383723	17.650	14909.638	ug/L	7516.719
	208	Pb	0.149284	5.061	9385.300	ug/L	5342.778
>	197	Au-2			883435.840	ug/L	924783.275
	206	Pb	0.143266	2.565	2302.542	ug/L	1321.741
	207	Pb	0.154880	2.699	2115.511	ug/L	1194.729
>	45	Sc			268423.269	ug/L	257624.800
	47	Tl	0.619436	56.096	7278.927	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.192	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.437	
	Cu	65		
	Zn	66		
>	Au-1	197	95.529	
	Tl	205		
	Pb	208		
>	Au-2	197	95.529	
	Pb	206		
	Pb	207		
>	Sc	45	104.192	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVES
Sample Date/Time: Tuesday, April 13, 2010 17:23:51
Autosampler Position: 30
Dataset File: D:\Elandata\Dataset\041310M1\LXHVES.080

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			268980.140	ug/L	257624.800
|	23	Na	9474.586239	2.066	39920159.132	ug/L	50199.597
|	24	Mg	9432.506232	0.513	26234504.078	ug/L	21102.507
|	27	Al	9429.741562	2.840	40273173.244	ug/L	31736.052
|	39	K	9683.463575	1.451	70257185.316	ug/L	785433.802
|	44	Ca	9813.988592	3.231	2585345.509	ug/L	89592.624
|	57	Fe	9259.053455	2.437	2442238.641	ug/L	16392.144
|	9	Be	942.879715	0.801	357414.632	ug/L	46.334
|	51	V	958.343220	1.345	7975457.125	ug/L	-38525.530
|	52	Cr	964.432233	3.786	7460758.024	ug/L	34443.159
|	55	Mn	923.220635	1.007	11412360.993	ug/L	4030.943
|	59	Co	946.330321	3.223	9278414.920	ug/L	1553.100
⌊	60	Ni	885.990036	3.390	2018315.226	ug/L	941.040
⌈>	72	Ge-1			359286.347	ug/L	365848.721
|	65	Cu	942.376144	0.549	2357633.045	ug/L	900.704
⌊	66	Zn	903.657120	0.884	1285794.188	ug/L	7004.120
⌈>	197	Au-1			855795.639	ug/L	924783.275
|	205	Tl	1072.440388	1.677	20925351.450	ug/L	7516.719
⌊	208	Pb	1024.407350	2.241	28477170.464	ug/L	5342.778
⌈>	197	Au-2			855795.639	ug/L	924783.275
|	206	Pb	1002.325466	3.452	7045141.011	ug/L	1321.741
⌊	207	Pb	1048.946087	3.174	6391862.993	ug/L	1194.729
⌈>	45	Sc			268980.140	ug/L	257624.800
⌊	47	Ti	960.717848	2.062	680655.728	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	104.408	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	98.208	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	92.540	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	92.540	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	104.408	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 17:27:40
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.081

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			234073.625	ug/L	257624.800
|	23	Na	3886.614770	6.205	14252175.403	ug/L	50199.597
|	24	Mg	7715.177249	5.139	18651039.034	ug/L	21102.507
|	27	Al	3812.192479	7.325	14160090.462	ug/L	31736.052
|	39	K	3910.281628	4.228	25088933.162	ug/L	785433.802
|	44	Ca	7864.904351	4.187	1818172.776	ug/L	89592.624
|	57	Fe	7685.948585	7.413	1763135.444	ug/L	16392.144
|	9	Be	1075.238931	6.939	353950.516	ug/L	46.334
|	51	V	951.828415	4.212	6887149.901	ug/L	-38525.530
|	52	Cr	982.075374	4.540	6604797.046	ug/L	34443.159
|	55	Mn	975.234136	5.874	10473252.093	ug/L	4030.943
|	59	Co	997.910135	8.489	8496895.825	ug/L	1553.100
⌊	60	Ni	953.399758	6.639	1887119.069	ug/L	941.040
⌈>	72	Ge-1			324292.166	ug/L	365848.721
|	65	Cu	985.341632	3.948	2223812.669	ug/L	900.704
⌊	66	Zn	988.832114	3.379	1268812.874	ug/L	7004.120
⌈>	197	Au-1			843148.279	ug/L	924783.275
|	205	Tl	999.227023	3.104	19211778.117	ug/L	7516.719
⌊	208	Pb	984.505041	0.719	26969295.355	ug/L	5342.778
⌈>	197	Au-2			843148.279	ug/L	924783.275
|	206	Pb	958.456196	1.216	6640689.056	ug/L	1321.741
⌊	207	Pb	1010.223800	1.169	6067120.247	ug/L	1194.729
⌈>	45	Sc			234073.625	ug/L	257624.800
⌊	47	Ti	973.638010	1.454	600136.769	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	90.858	
|	Na	23		97.165
|	Mg	24		96.440
|	Al	27		95.305
|	K	39		97.757
|	Ca	44		98.311
|	Fe	57		96.074
|	Be	9		107.524
|	V	51		95.183
|	Cr	52		98.208
|	Mn	55		97.523
|	Co	59		99.791
⌊	Ni	60		95.340
⌈>	Ge-1	72	88.841	
|	Cu	65		98.534
⌊	Zn	66		98.883
⌈>	Au-1	197	91.173	
|	Tl	205		99.923
⌊	Pb	208		98.451
⌈>	Au-2	197	91.173	
|	Pb	206		95.848
⌊	Pb	207		101.022
⌈>	Sc	45	90.858	
⌊	Ti	47		97.364

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 17:32:00
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.082

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217630.876	ug/L	257624.800
	23	Na	-3.801069	30.391	29455.971	ug/L	50199.597
	24	Mg	-1.236347	103.520	15043.589	ug/L	21102.507
	27	Al	-2.945779	24.409	16627.638	ug/L	31736.052
	39	K	8.433834	31.266	712429.138	ug/L	785433.802
	44	Ca	27.387493	17.097	81308.908	ug/L	89592.624
	57	Fe	-5.302570	29.175	12721.536	ug/L	16392.144
	9	Be	0.550473	41.634	207.670	ug/L	46.334
	51	V	0.159388	621.129	-31490.832	ug/L	-38525.530
	52	Cr	0.232637	82.689	30541.947	ug/L	34443.159
	55	Mn	0.561249	30.084	9011.327	ug/L	4030.943
	59	Co	0.518998	35.089	5426.465	ug/L	1553.100
	60	Ni	0.453029	38.920	1629.112	ug/L	941.040
>	72	Ge-1			326238.577	ug/L	365848.721
	65	Cu	0.526051	29.558	1998.163	ug/L	900.704
	66	Zn	0.791768	25.996	7261.919	ug/L	7004.120
>	197	Au-1			857338.018	ug/L	924783.275
	205	Tl	2.564619	20.975	57122.541	ug/L	7516.719
	208	Pb	0.572641	26.342	20923.419	ug/L	5342.778
>	197	Au-2			857338.018	ug/L	924783.275
	206	Pb	0.550606	25.774	5108.657	ug/L	1321.741
	207	Pb	0.580311	25.282	4655.826	ug/L	1194.729
>	45	Sc			217630.876	ug/L	257624.800
	47	Ti	3.280110	17.455	7412.665	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	84.476	
	Na	23		-380.107
	Mg	24		-123.635
	Al	27		-294.578
	K	39		843.383
	Ca	44		2738.749
	Fe	57		-530.257
	Be	9		55.047
	V	51		15.939
	Cr	52		23.264
	Mn	55		56.125
	Co	59		51.900
	Ni	60		45.303
>	Ge-1	72	89.173	
	Cu	65		52.805
	Zn	66		79.177
>	Au-1	197	92.707	
	Tl	205		256.462
	Pb	208		57.264
>	Au-2	197	92.707	
	Pb	206		55.061
	Pb	207		58.031
>	Sc	45	84.476	
	Ti	47		328.011

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEA
Sample Date/Time: Tuesday, April 13, 2010 17:36:19
Autosampler Position: 31
Dataset File: D:\Elandata\Dataset\041310M1\LXHVEA.083

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			264262.982	ug/L	257624.800
	23	Na	358.247491	3.711	1531969.854	ug/L	50199.597
	24	Mg	265.420048	3.226	746126.508	ug/L	21102.507
	27	Al	162.011354	4.572	712118.275	ug/L	31736.052
	39	K	635.945932	4.247	5286885.898	ug/L	785433.802
	44	Ca	589.280822	4.592	238990.720	ug/L	89592.624
	57	Fe	259.911491	4.451	83671.466	ug/L	16392.144
	9	Be	2.515354	8.556	983.377	ug/L	46.334
	51	V	56.122124	4.511	421536.114	ug/L	-38525.530
	52	Cr	55.136622	1.318	452521.950	ug/L	34443.159
	55	Mn	11.118208	3.075	139084.641	ug/L	4030.943
	59	Co	10.999702	3.664	107522.961	ug/L	1553.100
	60	Ni	25.894706	4.538	58882.762	ug/L	941.040
>	72	Ge-1			358906.279	ug/L	365848.721
	65	Cu	12.857407	2.476	32999.744	ug/L	900.704
	66	Zn	34.614004	0.797	55806.692	ug/L	7004.120
>	197	Au-1			873451.472	ug/L	924783.275
	205	Tl	12.010869	1.798	246240.334	ug/L	7516.719
	208	Pb	17.475128	0.882	500916.452	ug/L	5342.778
>	197	Au-2			873451.472	ug/L	924783.275
	206	Pb	17.088298	1.101	123864.576	ug/L	1321.741
	207	Pb	17.391679	1.740	109324.618	ug/L	1194.729
>	45	Sc			264262.982	ug/L	257624.800
	47	Tl	26.687594	1.187	25133.008	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.577	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.102	
	Cu	65		
	Zn	66		
>	Au-1	197	94.449	
	Tl	205		
	Pb	208		
>	Au-2	197	94.449	
	Pb	206		
	Pb	207		
>	Sc	45	102.577	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVL
Sample Date/Time: Tuesday, April 13, 2010 17:40:08
Autosampler Position: 32
Dataset File: D:\Elandata\Dataset\041310M1\LXHVL.084

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			270835.644	ug/L	257624.800
	23	Na	270.871482	1.108	1200447.759	ug/L	50199.597
	24	Mg	2.801171	4.763	30022.485	ug/L	21102.507
	27	Al	10.072673	1.051	76656.892	ug/L	31736.052
	39	K	325.502860	2.801	3175892.730	ug/L	785433.802
	44	Ca	23.944230	16.486	100306.254	ug/L	89592.624
	57	Fe	13.428068	4.046	20775.157	ug/L	16392.144
	9	Be	-0.090081	1.450	14.333	ug/L	46.334
	51	V	-4.590059	27.836	-79124.280	ug/L	-38525.530
	52	Cr	2.044690	7.742	52062.910	ug/L	34443.159
	55	Mn	0.606938	1.663	11790.649	ug/L	4030.943
	59	Co	-0.102605	2.609	619.686	ug/L	1553.100
	60	Ni	0.078565	19.634	1169.393	ug/L	941.040
>	72	Ge-1			373647.881	ug/L	365848.721
	65	Cu	0.631016	6.917	2559.922	ug/L	900.704
	66	Zn	4.933418	2.635	14414.080	ug/L	7004.120
>	197	Au-1			892392.703	ug/L	924783.275
	205	Tl	0.748719	25.302	22506.654	ug/L	7516.719
	208	Pb	-0.016949	17.140	4664.674	ug/L	5342.778
>	197	Au-2			892392.703	ug/L	924783.275
	206	Pb	-0.015465	4.986	1162.059	ug/L	1321.741
	207	Pb	-0.011913	32.981	1077.385	ug/L	1194.729
>	45	Sc			270835.644	ug/L	257624.800
	47	Ti	0.132259	99.924	7003.453	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.128	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.132	
	Cu	65		
	Zn	66		
>	Au-1	197	96.497	
	Tl	205		
	Pb	208		
>	Au-2	197	96.497	
	Pb	206		
	Pb	207		
>	Sc	45	105.128	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVL S

Sample Date/Time: Tuesday, April 13, 2010 17:43:57

Autosampler Position: 33

Dataset File: D:\Elandata\Dataset\041310M1\LXHVL.085

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			267621.545	ug/L	257624.800
23	Na	262.460070	5.707	1149921.895	ug/L	50199.597
24	Mg	2.724564	11.833	29439.268	ug/L	21102.507
27	Al	15.378204	5.080	98230.984	ug/L	31736.052
39	K	308.064850	4.956	3012037.152	ug/L	785433.802
44	Ca	12.521314	107.222	96169.602	ug/L	89592.624
57	Fe	0.408840	515.722	17123.983	ug/L	16392.144
9	Be	-0.093939	12.297	12.667	ug/L	46.334
51	V	-2.166239	93.115	-57724.584	ug/L	-38525.530
52	Cr	1.469082	20.062	46999.699	ug/L	34443.159
55	Mn	0.380229	7.001	8856.834	ug/L	4030.943
59	Co	-0.132994	1.021	315.673	ug/L	1553.100
60	Ni	0.074952	40.782	1146.057	ug/L	941.040
72	Ge-1			362009.749	ug/L	365848.721
65	Cu	0.378388	5.830	1845.138	ug/L	900.704
66	Zn	2.409591	10.886	10364.197	ug/L	7004.120
197	Au-1			895631.063	ug/L	924783.275
205	Tl	52.734811	1.848	1083845.211	ug/L	7516.719
208	Pb	22.021718	2.389	645792.732	ug/L	5342.778
197	Au-2			895631.063	ug/L	924783.275
206	Pb	22.139709	2.086	164172.814	ug/L	1321.741
207	Pb	21.309296	1.871	137065.129	ug/L	1194.729
45	Sc			267621.545	ug/L	257624.800
47	Ti	0.036045	579.243	6850.377	ug/L	6572.911

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	103.880	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	98.951	
Cu	65		
Zn	66		
Au-1	197	96.848	
Tl	205		
Pb	208		
Au-2	197	96.848	
Pb	206		
Pb	207		
Sc	45	103.880	
Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLM
Sample Date/Time: Tuesday, April 13, 2010 17:47:46
Autosampler Position: 34
Dataset File: D:\Elandata\Dataset\041310M1\LXNLM.086

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			272097.161	ug/L	257624.800
	23	Na	163.588878	0.426	749366.241	ug/L	50199.597
	24	Mg	3.328185	9.974	31632.636	ug/L	21102.507
	27	Al	15.386361	6.830	99903.265	ug/L	31736.052
	39	K	241.251083	7.456	2578198.396	ug/L	785433.802
	44	Ca	38.880310	27.750	104579.786	ug/L	89592.624
	57	Fe	-8.041773	2.143	15181.700	ug/L	16392.144
	9	Be	-0.114524	6.257	5.000	ug/L	46.334
	51	V	-1.526474	67.893	-53718.392	ug/L	-38525.530
	52	Cr	1.878310	15.140	50984.029	ug/L	34443.159
	55	Mn	0.104506	8.480	5562.472	ug/L	4030.943
	59	Co	-0.144865	0.727	203.337	ug/L	1553.100
	60	Ni	-0.078970	17.929	811.698	ug/L	941.040
>	72	Ge-1			373380.974	ug/L	365848.721
	65	Cu	1.734886	3.971	5427.419	ug/L	900.704
	66	Zn	5.058554	2.531	14587.924	ug/L	7004.120
>	197	Au-1			892955.631	ug/L	924783.275
	205	Tl	1.258102	27.172	32948.266	ug/L	7516.719
	208	Pb	0.010510	50.299	5462.126	ug/L	5342.778
>	197	Au-2			892955.631	ug/L	924783.275
	206	Pb	0.011969	73.133	1363.079	ug/L	1321.741
	207	Pb	0.013765	38.681	1240.733	ug/L	1194.729
>	45	Sc			272097.161	ug/L	257624.800
	47	Ti	-0.113701	209.258	6859.382	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.618	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.059	
	Cu	65		
	Zn	66		
>	Au-1	197	96.558	
	Tl	205		
	Pb	208		
>	Au-2	197	96.558	
	Pb	206		
	Pb	207		
>	Sc	45	105.618	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTB
Sample Date/Time: Tuesday, April 13, 2010 17:51:35
Autosampler Position: 35
Dataset File: D:\Elandata\Dataset\041310M1\LXLXTB.087

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			266706.218	ug/L	257624.800
	23	Na	2.503461	22.834	62393.300	ug/L	50199.597
	24	Mg	-5.964651	0.583	5410.078	ug/L	21102.507
	27	Al	-2.782537	3.675	21075.081	ug/L	31736.052
	39	K	-8.328591	35.591	753712.211	ug/L	785433.802
	44	Ca	-17.032065	61.627	88437.495	ug/L	89592.624
	57	Fe	-8.398208	21.218	14784.696	ug/L	16392.144
	9	Be	-0.114366	4.510	5.000	ug/L	46.334
	51	V	-5.241988	46.425	-83469.982	ug/L	-38525.530
	52	Cr	3.068150	7.665	59071.491	ug/L	34443.159
	55	Mn	0.070199	16.775	5032.270	ug/L	4030.943
	59	Co	-0.148451	0.397	164.336	ug/L	1553.100
	60	Ni	-0.125207	6.469	691.357	ug/L	941.040
>	72	Ge-1			375445.884	ug/L	365848.721
	65	Cu	12.211787	1.766	32837.702	ug/L	900.704
	66	Zn	15.569132	1.765	30212.218	ug/L	7004.120
>	197	Au-1			906535.050	ug/L	924783.275
	205	Tl	0.361151	21.803	14842.261	ug/L	7516.719
	208	Pb	0.959258	1.073	33488.357	ug/L	5342.778
>	197	Au-2			906535.050	ug/L	924783.275
	206	Pb	0.961125	1.506	8453.252	ug/L	1321.741
	207	Pb	0.953520	0.412	7327.285	ug/L	1194.729
>	45	Sc			266706.218	ug/L	257624.800
	47	Ti	-0.568729	60.145	6406.834	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.525	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.623	
	Cu	65		
	Zn	66		
>	Au-1	197	98.027	
	Tl	205		
	Pb	208		
>	Au-2	197	98.027	
	Pb	206		
	Pb	207		
>	Sc	45	103.525	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTC
Sample Date/Time: Tuesday, April 13, 2010 17:55:22
Autosampler Position: 36
Dataset File: D:\Elandata\Dataset\041310M1\LXLXTC.088

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			266270.870	ug/L	257624.800
	23	Na	9890.790101	1.351	41255241.347	ug/L	50199.597
	24	Mg	9856.231180	0.889	27137306.858	ug/L	21102.507
	27	Al	9770.894044	3.426	41311797.059	ug/L	31736.052
	39	K	10054.360467	1.814	72189389.256	ug/L	785433.802
	44	Ca	9933.875679	3.442	2589547.053	ug/L	89592.624
	57	Fe	9701.505724	2.072	2532541.482	ug/L	16392.144
	9	Be	999.408452	1.325	375027.281	ug/L	46.334
	51	V	1013.976579	2.389	8355251.110	ug/L	-38525.530
	52	Cr	985.695973	0.808	7550342.088	ug/L	34443.159
	55	Mn	966.027264	2.015	11822940.002	ug/L	4030.943
	59	Co	972.504307	1.495	9443438.748	ug/L	1553.100
	60	Ni	962.922432	1.262	2172067.179	ug/L	941.040
>	72	Ge-1			364205.480	ug/L	365848.721
	65	Cu	981.676692	1.793	2489392.284	ug/L	900.704
	66	Zn	935.573583	1.062	1349177.708	ug/L	7004.120
>	197	Au-1			874152.011	ug/L	924783.275
	205	Tl	1080.791262	3.092	21539804.137	ug/L	7516.719
	208	Pb	1020.322433	2.031	28975073.247	ug/L	5342.778
>	197	Au-2			874152.011	ug/L	924783.275
	206	Pb	978.590317	2.578	7027703.569	ug/L	1321.741
	207	Pb	1069.516799	1.211	6659032.729	ug/L	1194.729
>	45	Sc			266270.870	ug/L	257624.800
	47	Ti	990.669352	3.233	694581.691	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.356	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.551	
	Cu	65		
	Zn	66		
>	Au-1	197	94.525	
	Tl	205		
	Pb	208		
>	Au-2	197	94.525	
	Pb	206		
	Pb	207		
>	Sc	45	103.356	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	H
Tl	205	H
Pb	208	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EE
Sample Date/Time: Tuesday, April 13, 2010 17:59:10
Autosampler Position: 37
Dataset File: D:\Elandata\Dataset\041310M1\LW7EE.089

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			254468.106	ug/L	257624.800
	23	Na	87.306988	2.865	397108.555	ug/L	50199.597
	24	Mg	39.789824	3.313	125426.212	ug/L	21102.507
	27	Al	242.673119	1.767	1011278.910	ug/L	31736.052
	39	K	153.121622	5.306	1814270.195	ug/L	785433.802
	44	Ca	185.048964	2.751	132954.868	ug/L	89592.624
	57	Fe	783.735188	3.555	210401.497	ug/L	16392.144
	9	Be	0.183074	15.023	111.335	ug/L	46.334
	51	V	-2.280259	117.556	-56145.941	ug/L	-38525.530
	52	Cr	6.939223	3.747	84595.762	ug/L	34443.159
	55	Mn	12.657969	1.265	151980.917	ug/L	4030.943
	59	Co	0.343329	10.686	4717.161	ug/L	1553.100
	60	Ni	2.055480	2.791	5357.725	ug/L	941.040
>	72	Ge-1			352833.584	ug/L	365848.721
	65	Cu	2.955969	2.605	8128.728	ug/L	900.704
	66	Zn	53.397696	1.916	80974.721	ug/L	7004.120
>	197	Au-1			889532.031	ug/L	924783.275
	205	Tl	2.783550	24.597	63696.842	ug/L	7516.719
	208	Pb	0.539679	7.264	20733.141	ug/L	5342.778
>	197	Au-2			889532.031	ug/L	924783.275
	206	Pb	0.518014	9.025	5056.948	ug/L	1321.741
	207	Pb	0.546091	7.982	4608.458	ug/L	1194.729
>	45	Sc			254468.106	ug/L	257624.800
	47	Ti	5.104515	8.428	9877.847	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.775	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.442	
	Cu	65		
	Zn	66		
>	Au-1	197	96.188	
	Tl	205		
	Pb	208		
>	Au-2	197	96.188	
	Pb	208		
	Pb	207		
>	Sc	45	98.775	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EEV
Sample Date/Time: Tuesday, April 13, 2010 18:02:59
Autosampler Position: 38
Dataset File: D:\Elandata\Dataset\041310M1\LW7EEV.090

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			234863.365	ug/L	257624.800
	23	Na	8.752240	3.850	77912.058	ug/L	50199.597
	24	Mg	2.924558	11.498	26322.830	ug/L	21102.507
	27	Al	44.824006	2.607	195953.359	ug/L	31736.052
	39	K	14.195879	17.755	804675.582	ug/L	785433.802
	44	Ca	18.410147	64.408	85716.587	ug/L	89592.624
	57	Fe	145.206366	4.616	48138.111	ug/L	16392.144
	9	Be	0.093643	20.095	73.334	ug/L	46.334
	51	V	-0.125398	2057.292	-35981.250	ug/L	-38525.530
	52	Cr	1.089297	21.301	38701.083	ug/L	34443.159
	55	Mn	2.602243	6.008	31734.226	ug/L	4030.943
	59	Co	0.090482	9.521	2191.524	ug/L	1553.100
[	60	Ni	0.441718	9.003	1736.123	ug/L	941.040
[>	72	Ge-1			332090.813	ug/L	365848.721
	65	Cu	0.677615	2.505	2383.889	ug/L	900.704
[	66	Zn	11.985115	1.966	22034.200	ug/L	7004.120
[>	197	Au-1			861337.651	ug/L	924783.275
	205	Tl	0.855255	11.337	23794.456	ug/L	7516.719
[	208	Pb	0.158079	10.120	9403.960	ug/L	5342.778
[>	197	Au-2			861337.651	ug/L	924783.275
	206	Pb	0.154680	6.226	2326.213	ug/L	1321.741
[	207	Pb	0.173291	9.691	2176.855	ug/L	1194.729
[>	45	Sc			234863.365	ug/L	257624.800
[	47	Tl	0.822258	11.025	6495.208	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	91.185	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	90.773	
	Cu	65		
[	Zn	66		
[>	Au-1	197	93.139	
	Tl	205		
[	Pb	208		
[>	Au-2	197	93.139	
	Pb	206		
[	Pb	207		
[>	Sc	45	91.185	
[	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EES
Sample Date/Time: Tuesday, April 13, 2010 18:06:47
Autosampler Position: 39
Dataset File: D:\Elandata\Dataset\041310M1\LW7EES.091

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			247333.624	ug/L	257624.800
|	23	Na	10110.117720	5.756	39101054.721	ug/L	50199.597
|	24	Mg	9908.422992	6.499	25287791.951	ug/L	21102.507
|	27	Al	10125.524487	4.874	39718407.272	ug/L	31736.052
|	39	K	10167.787206	5.554	67688166.017	ug/L	785433.802
|	44	Ca	9986.042932	5.662	2414075.861	ug/L	89592.624
|	57	Fe	10719.798607	7.532	2592163.184	ug/L	16392.144
|	9	Be	1008.852183	6.455	350968.574	ug/L	46.334
|	51	V	985.227240	2.292	7536083.955	ug/L	-38525.530
|	52	Cr	1001.417360	3.949	7117274.108	ug/L	34443.159
|	55	Mn	1011.200062	6.848	11469978.547	ug/L	4030.943
|	59	Co	1003.564409	6.363	9032881.420	ug/L	1553.100
⌊	60	Ni	931.466489	5.420	1948470.048	ug/L	941.040
⌈>	72	Ge-1			345231.672	ug/L	365848.721
|	65	Cu	965.108251	2.546	2319123.781	ug/L	900.704
⌊	66	Zn	960.079911	2.670	1312023.414	ug/L	7004.120
⌈>	197	Au-1			849797.252	ug/L	924783.275
|	205	Tl	1014.335329	1.473	19657445.865	ug/L	7516.719
⌊	208	Pb	987.309215	1.723	27259576.716	ug/L	5342.778
⌈>	197	Au-2			849797.252	ug/L	924783.275
|	206	Pb	938.530236	1.521	6553150.209	ug/L	1321.741
⌊	207	Pb	1025.059462	2.092	6204465.897	ug/L	1194.729
⌈>	45	Sc			247333.624	ug/L	257624.800
⌊	47	Tl	978.149700	3.849	636503.701	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	96.005	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.365	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	91.892	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	91.892	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	96.005	
⌊	Tl	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Cr	52	H
Mn	55	H
Co	59	H
Tl	205	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EED
Sample Date/Time: Tuesday, April 13, 2010 18:10:35
Autosampler Position: 40
Dataset File: D:\Elandata\Dataset\041310M1\LW7EED.092

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			249054.312	ug/L	257624.800
	23	Na	10337.651328	3.046	40312939.989	ug/L	50199.597
	24	Mg	10145.759009	1.993	26122734.832	ug/L	21102.507
	27	Al	10460.258154	1.930	41375494.192	ug/L	31736.052
	39	K	10381.868665	0.441	69695991.780	ug/L	785433.802
	44	Ca	10370.362371	2.142	2524772.186	ug/L	89592.624
	57	Fe	10657.462701	5.823	2598777.469	ug/L	16392.144
	9	Be	1019.028397	1.978	357567.471	ug/L	46.334
	51	V	1036.782693	1.202	7992333.665	ug/L	-38525.530
	52	Cr	1042.443189	3.061	7465711.876	ug/L	34443.159
	55	Mn	1006.351800	4.582	11512164.502	ug/L	4030.943
	59	Co	1000.674540	3.485	9083606.518	ug/L	1553.100
	60	Ni	995.626424	2.516	2099960.720	ug/L	941.040
>	72	Ge-1			350219.718	ug/L	365848.721
	65	Cu	983.427746	0.818	2398033.510	ug/L	900.704
	66	Zn	1000.453207	1.555	1386845.833	ug/L	7004.120
>	197	Au-1			851004.897	ug/L	924783.275
	205	Tl	1054.467359	1.382	20464102.308	ug/L	7516.719
	208	Pb	1016.069202	0.945	28094298.741	ug/L	5342.778
>	197	Au-2			851004.897	ug/L	924783.275
	206	Pb	983.526403	1.696	6877874.687	ug/L	1321.741
	207	Pb	1059.960793	0.874	6425291.468	ug/L	1194.729
>	45	Sc			249054.312	ug/L	257624.800
	47	Ti	1038.292938	1.875	680605.943	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.673	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.728	
	Cu	65		
	Zn	66		
>	Au-1	197	92.022	
	Tl	205		
	Pb	208		
>	Au-2	197	92.022	
	Pb	206		
	Pb	207		
>	Sc	45	96.673	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Zn	66	H
Tl	205	H
Pb	206	H

Ti 47 H

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 18:14:24
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.093

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			223313.125	ug/L	257624.800
23	Na	4044.100668	1.844	14167995.136	ug/L	50199.597
24	Mg	8101.949125	2.667	18702720.529	ug/L	21102.507
27	Al	3918.286280	0.652	13913226.515	ug/L	31736.052
39	K	3972.848933	1.510	24329796.184	ug/L	785433.802
44	Ca	8111.517497	1.614	1787713.533	ug/L	89592.624
57	Fe	8044.107677	3.498	1762715.430	ug/L	16392.144
9	Be	1117.696240	1.680	351650.065	ug/L	46.334
51	V	1015.659147	2.703	7017451.730	ug/L	-38525.530
52	Cr	1041.212695	3.698	6684537.922	ug/L	34443.159
55	Mn	1023.330547	3.394	10498815.075	ug/L	4030.943
59	Co	995.874577	3.559	8105096.088	ug/L	1553.100
60	Ni	966.974167	2.289	1828670.530	ug/L	941.040
72	Ge-1			318647.076	ug/L	365848.721
65	Cu	994.316523	1.785	2205498.156	ug/L	900.704
66	Zn	995.374626	1.822	1255140.313	ug/L	7004.120
197	Au-1			848844.319	ug/L	924783.275
205	Tl	1011.160176	1.776	19573053.395	ug/L	7516.719
208	Pb	1005.821189	0.927	27740798.168	ug/L	5342.778
197	Au-2			848844.319	ug/L	924783.275
206	Pb	980.124687	0.727	6836211.948	ug/L	1321.741
207	Pb	1002.272312	1.944	6060228.103	ug/L	1194.729
45	Sc			223313.125	ug/L	257624.800
47	Ti	991.293765	2.092	582835.560	ug/L	6572.911

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	86.682	
Na	23		101.103
Mg	24		101.274
Al	27		97.957
K	39		99.321
Ca	44		101.394
Fe	57		100.551
Be	9		111.770
V	51		101.566
Cr	52		104.121
Mn	55		102.333
Co	59		99.587
Ni	60		96.697
Ge-1	72	87.098	
Cu	65		99.432
Zn	66		99.537
Au-1	197	91.788	
Tl	205		101.116
Pb	208		100.582
Au-2	197	91.788	
Pb	206		98.012
Pb	207		100.227
Sc	45	86.682	
Ti	47		99.129

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 18:18:44
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.094

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216951.322	ug/L	257624.800
	23	Na	-3.548259	27.447	30149.536	ug/L	50199.597
	24	Mg	-0.933256	119.979	15616.779	ug/L	21102.507
	27	Al	-2.538769	30.082	17918.168	ug/L	31736.052
	39	K	3.235447	145.792	679456.529	ug/L	785433.802
	44	Ca	-3.828348	459.568	74572.558	ug/L	89592.624
	57	Fe	-4.506591	71.596	12836.735	ug/L	16392.144
	9	Be	0.655248	19.672	238.338	ug/L	46.334
	51	V	-2.080371	135.969	-46072.646	ug/L	-38525.530
	52	Cr	0.154408	243.687	29908.949	ug/L	34443.159
	55	Mn	0.632019	26.574	9652.398	ug/L	4030.943
	59	Co	0.554194	21.254	5667.860	ug/L	1553.100
	60	Ni	0.494598	26.242	1695.452	ug/L	941.040
>	72	Ge-1			314809.649	ug/L	365848.721
	65	Cu	0.583428	13.476	2055.836	ug/L	900.704
	66	Zn	0.840004	5.762	7068.152	ug/L	7004.120
>	197	Au-1			854430.218	ug/L	924783.275
	205	Tl	3.294234	25.147	71076.275	ug/L	7516.719
	208	Pb	0.632220	11.788	22490.911	ug/L	5342.778
>	197	Au-2			854430.218	ug/L	924783.275
	206	Pb	0.608315	8.962	5492.448	ug/L	1321.741
	207	Pb	0.637846	13.365	4986.927	ug/L	1194.729
>	45	Sc			216951.322	ug/L	257624.800
	47	Ti	1.532454	42.150	6393.495	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	84.212	
	Na	23		-354.828
	Mg	24		-93.326
	Al	27		-253.877
	K	39		323.545
	Ca	44		-382.835
	Fe	57		-450.659
	Be	9		65.525
	V	51		-208.037
	Cr	52		15.441
	Mn	55		63.202
	Co	59		55.419
	Ni	60		49.460
>	Ge-1	72	86.049	
	Cu	65		58.343
	Zn	66		84.000
>	Au-1	197	92.392	
	Tl	205		329.423
	Pb	208		63.222
>	Au-2	197	92.392	
	Pb	206		60.831
	Pb	207		63.785
>	Sc	45	84.212	
	Ti	47		153.245

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
V	51	Q
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EG
Sample Date/Time: Tuesday, April 13, 2010 18:23:03
Autosampler Position: 41
Dataset File: D:\Elandata\Dataset\041310M1\LW7EG.095

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			246959.819	ug/L	257624.800
|	23	Na	9.228891	14.200	83774.329	ug/L	50199.597
|	24	Mg	-2.225121	4.662	14552.557	ug/L	21102.507
|	27	Al	0.137370	43.525	30959.821	ug/L	31736.052
|	39	K	2.391818	25.387	768674.176	ug/L	785433.802
|	44	Ca	-2.456103	242.004	85306.147	ug/L	89592.624
|	57	Fe	-3.893325	11.654	14776.747	ug/L	16392.144
|	9	Be	0.253595	11.044	132.669	ug/L	46.334
|	51	V	-7.203113	55.771	-92313.008	ug/L	-38525.530
|	52	Cr	2.267887	14.162	49048.986	ug/L	34443.159
|	55	Mn	0.410348	8.848	8519.629	ug/L	4030.943
|	59	Co	0.234032	5.530	3595.822	ug/L	1553.100
⌊	60	Ni	0.265142	12.468	1456.422	ug/L	941.040
⌈>	72	Ge-1			354782.348	ug/L	365848.721
|	65	Cu	0.360797	7.699	1764.793	ug/L	900.704
⌊	66	Zn	2.343586	3.036	10067.981	ug/L	7004.120
⌈>	197	Au-1			874140.943	ug/L	924783.275
|	205	Tl	1.857647	15.550	44194.367	ug/L	7516.719
⌊	208	Pb	0.282878	1.004	13082.485	ug/L	5342.778
⌈>	197	Au-2			874140.943	ug/L	924783.275
|	206	Pb	0.277121	6.831	3237.399	ug/L	1321.741
⌊	207	Pb	0.282707	1.591	2888.988	ug/L	1194.729
⌈>	45	Sc			246959.819	ug/L	257624.800
⌊	47	Ti	1.452464	15.882	7235.905	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	95.860	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	96.975	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	94.524	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	94.524	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	95.860	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EH
Sample Date/Time: Tuesday, April 13, 2010 18:26:52
Autosampler Position: 42
Dataset File: D:\Elandata\Dataset\041310M1\LW7EH.096

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			248067.759	ug/L	257624.800
	23	Na	18.830711	3.726	121414.113	ug/L	50199.597
	24	Mg	-1.804270	11.652	15694.111	ug/L	21102.507
	27	Al	3.781609	2.159	45445.625	ug/L	31736.052
	39	K	5.186917	33.067	790623.231	ug/L	785433.802
	44	Ca	23.180566	10.283	91699.967	ug/L	89592.624
	57	Fe	-6.371791	31.116	14243.372	ug/L	16392.144
	9	Be	-0.022721	33.173	36.667	ug/L	46.334
	51	V	-1.704212	148.761	-50295.033	ug/L	-38525.530
	52	Cr	1.728967	3.898	45447.641	ug/L	34443.159
	55	Mn	0.346124	4.266	7825.888	ug/L	4030.943
	59	Co	-0.040142	10.315	1132.390	ug/L	1553.100
[	60	Ni	0.025392	68.502	959.375	ug/L	941.040
[>	72	Ge-1			359298.035	ug/L	365848.721
	65	Cu	0.094490	24.327	1120.389	ug/L	900.704
[	66	Zn	4.370867	3.423	13062.433	ug/L	7004.120
[>	197	Au-1			870952.467	ug/L	924783.275
	205	Tl	0.793955	9.839	22829.826	ug/L	7516.719
[	208	Pb	0.036271	19.350	6056.222	ug/L	5342.778
[>	197	Au-2			870952.467	ug/L	924783.275
	206	Pb	0.038232	28.676	1518.096	ug/L	1321.741
[	207	Pb	0.043760	27.187	1396.082	ug/L	1194.729
[>	45	Sc			248067.759	ug/L	257624.800
[	47	Ti	0.876587	39.429	6896.735	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	96.290	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	98.209	
	Cu	65		
[	Zn	66		
[>	Au-1	197	94.179	
	Tl	205		
[	Pb	208		
[>	Au-2	197	94.179	
	Pb	206		
[	Pb	207		
[>	Sc	45	96.290	
[	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EK
Sample Date/Time: Tuesday, April 13, 2010 18:30:41
Autosampler Position: 43
Dataset File: D:\Elandata\Dataset\041310M1\LW7EK.097

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			253450.872	ug/L	257624.800
|	23	Na	6.133125	12.059	73672.960	ug/L	50199.597
|	24	Mg	-4.620752	0.947	8660.044	ug/L	21102.507
|	27	Al	-2.303212	7.158	21949.737	ug/L	31736.052
|	39	K	-5.535947	27.594	735186.241	ug/L	785433.802
|	44	Ca	-10.991480	42.689	85496.935	ug/L	89592.624
|	57	Fe	-12.432169	13.740	13052.818	ug/L	16392.144
|	9	Be	-0.095773	10.915	11.333	ug/L	46.334
|	51	V	-3.758570	45.922	-67549.313	ug/L	-38525.530
|	52	Cr	1.661083	14.863	45931.579	ug/L	34443.159
|	55	Mn	0.081734	13.683	4915.895	ug/L	4030.943
|	59	Co	-0.108669	1.578	523.682	ug/L	1553.100
⌊	60	Ni	0.200424	10.338	1355.411	ug/L	941.040
⌈>	72	Ge-1			351508.672	ug/L	365848.721
|	65	Cu	0.282114	7.703	1555.100	ug/L	900.704
⌊	66	Zn	2.997216	6.145	10877.916	ug/L	7004.120
⌈>	197	Au-1			865185.327	ug/L	924783.275
|	205	Tl	0.473997	18.369	16378.281	ug/L	7516.719
⌊	208	Pb	-0.066329	3.648	3133.830	ug/L	5342.778
⌈>	197	Au-2			865185.327	ug/L	924783.275
|	206	Pb	-0.066682	2.738	762.695	ug/L	1321.741
⌊	207	Pb	-0.060392	8.783	745.360	ug/L	1194.729
⌈>	45	Sc			253450.872	ug/L	257624.800
⌊	47	Ti	0.442794	43.192	6757.999	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	98.380	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	96.080	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	93.555	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	93.555	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	98.380	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVB
Sample Date/Time: Tuesday, April 13, 2010 18:34:30
Autosampler Position: 44
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVB.098

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			239769.142	ug/L	257624.800
	23	Na	21.364676	0.670	126859.127	ug/L	50199.597
	24	Mg	1.499477	20.326	23346.298	ug/L	21102.507
	27	Al	5.231600	10.039	49422.203	ug/L	31736.052
	39	K	0.050309	3350.443	731207.451	ug/L	785433.802
	44	Ca	-16.455975	46.685	79637.488	ug/L	89592.624
	57	Fe	-7.493639	18.985	13502.388	ug/L	16392.144
	9	Be	-0.094085	1.848	11.333	ug/L	46.334
	51	V	0.225412	1177.633	-34013.748	ug/L	-38525.530
	52	Cr	-0.135067	81.176	31122.515	ug/L	34443.159
	55	Mn	0.058804	14.527	4398.388	ug/L	4030.943
	59	Co	-0.131132	1.908	299.006	ug/L	1553.100
	60	Ni	0.150048	13.128	1180.061	ug/L	941.040
>	72	Ge-1			331596.127	ug/L	365848.721
	65	Cu	0.004229	494.415	826.032	ug/L	900.704
	66	Zn	3.641006	2.173	11104.426	ug/L	7004.120
>	197	Au-1			867297.613	ug/L	924783.275
	205	Tl	0.391712	6.530	14791.806	ug/L	7516.719
	208	Pb	0.009864	52.236	5287.435	ug/L	5342.778
>	197	Au-2			867297.613	ug/L	924783.275
	206	Pb	0.006422	83.896	1285.071	ug/L	1321.741
	207	Pb	0.014238	48.740	1208.063	ug/L	1194.729
>	45	Sc			239769.142	ug/L	257624.800
	47	Ti	-0.221670	111.383	5976.977	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.069	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	90.637	
	Cu	65		
	Zn	66		
>	Au-1	197	93.784	
	Tl	205		
	Pb	208		
>	Au-2	197	93.784	
	Pb	206		
	Pb	207		
>	Sc	45	93.069	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Tuesday, April 13, 2010 18:38:19
Autosampler Position: 45
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVC.099

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			293288.791	ug/L	257624.800
	23	Na	1329.416949	4.179	6151280.531	ug/L	50199.597
	24	Mg	7792.412016	3.346	23619236.776	ug/L	21102.507
	27	Al	14426.638040	3.109	67137018.376	ug/L	31736.052
	39	K	6123.406640	3.468	48738132.929	ug/L	785433.802
	44	Ca	14415.422190	3.903	4090890.045	ug/L	89592.624
	57	Fe	27477.481008	1.432	7865023.296	ug/L	16392.144
	9	Be	182.942936	6.071	75548.749	ug/L	46.334
	51	V	317.402183	4.804	2847982.835	ug/L	-38525.530
	52	Cr	141.919291	6.536	1229389.405	ug/L	34443.159
	55	Mn	984.191073	1.384	13262815.987	ug/L	4030.943
	59	Co	434.501898	1.453	4646774.471	ug/L	1553.100
	60	Ni	157.731873	0.492	392837.634	ug/L	941.040
>	72	Ge-1			325159.928	ug/L	365848.721
	65	Cu	263.156772	1.600	596346.231	ug/L	900.704
	66	Zn	786.399786	1.624	1013401.207	ug/L	7004.120
>	197	Au-1			834730.774	ug/L	924783.275
	205	Tl	560.562898	0.887	10672856.336	ug/L	7516.719
	208	Pb	504.839065	2.468	13691807.017	ug/L	5342.778
>	197	Au-2			834730.774	ug/L	924783.275
	206	Pb	508.667808	3.067	3488731.696	ug/L	1321.741
	207	Pb	507.043098	1.805	3014951.333	ug/L	1194.729
>	45	Sc			293288.791	ug/L	257624.800
	47	Ti	698.055219	5.837	540729.501	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	113.843	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	88.878	
	Cu	65		
	Zn	66		
>	Au-1	197	90.262	
	Tl	205		
	Pb	208		
>	Au-2	197	90.262	
	Pb	206		
	Pb	207		
>	Sc	45	113.843	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Tuesday, April 13, 2010 18:42:08
Autosampler Position: 46
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVC.100

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			244561.774	ug/L	257624.800
|	23	Na	770.878053	4.925	2994416.984	ug/L	50199.597
|	24	Mg	4669.190424	3.482	11810696.024	ug/L	21102.507
|	27	Al	8581.707235	3.291	33318648.171	ug/L	31736.052
|	39	K	3635.889548	3.759	24436993.436	ug/L	785433.802
|	44	Ca	8671.386310	1.737	2086903.679	ug/L	89592.624
|	57	Fe	16566.842220	5.239	3957623.888	ug/L	16392.144
|	9	Be	109.242262	4.212	37663.642	ug/L	46.334
|	51	V	204.623143	1.951	1519336.284	ug/L	-38525.530
|	52	Cr	84.912548	2.517	627029.645	ug/L	34443.159
|	55	Mn	603.943964	4.286	6784692.074	ug/L	4030.943
|	59	Co	259.924486	4.888	2316877.506	ug/L	1553.100
⌊	60	Ni	96.791142	6.669	201090.716	ug/L	941.040
⌈>	72	Ge-1			315104.876	ug/L	365848.721
|	65	Cu	141.503282	0.749	311141.278	ug/L	900.704
⌊	66	Zn	430.323833	2.262	540103.866	ug/L	7004.120
⌈>	197	Au-1			846353.405	ug/L	924783.275
|	205	Tl	275.955156	1.602	5331104.577	ug/L	7516.719
⌊	208	Pb	248.155510	1.817	6827884.444	ug/L	5342.778
⌈>	197	Au-2			846353.405	ug/L	924783.275
|	206	Pb	247.266876	1.821	1720516.762	ug/L	1321.741
⌊	207	Pb	249.583355	2.604	1505578.699	ug/L	1194.729
⌈>	45	Sc			244561.774	ug/L	257624.800
⌊	47	Ti	421.073294	3.231	274660.873	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	94.929	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	86.130	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	91.519	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	91.519	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	94.929	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3
Sample Date/Time: Tuesday, April 13, 2010 18:45:56
Autosampler Position: 47
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3.101

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			241455.252	ug/L	257624.800
|	23	Na	20.495731	4.553	124483.672	ug/L	50199.597
|	24	Mg	813.794026	1.636	2049792.395	ug/L	21102.507
|	27	Al	6096.725030	1.684	23391029.377	ug/L	31736.052
|	39	K	201.872265	4.067	2035785.938	ug/L	785433.802
|	44	Ca	2535.148378	1.595	661980.124	ug/L	89592.624
|	57	Fe	16502.060999	2.968	3895455.871	ug/L	16392.144
|	9	Be	0.524905	4.624	222.004	ug/L	46.334
|	51	V	34.669198	1.770	224221.109	ug/L	-38525.530
|	52	Cr	18.227895	1.249	158295.088	ug/L	34443.159
|	55	Mn	292.647259	2.974	3249828.897	ug/L	4030.943
|	59	Co	5.569597	1.651	50485.914	ug/L	1553.100
⌊	60	Ni	8.247347	2.310	17743.192	ug/L	941.040
⌈>	72	Ge-1			316099.694	ug/L	365848.721
|	65	Cu	8.002871	0.559	18386.342	ug/L	900.704
⌊	66	Zn	27.136817	1.659	39841.551	ug/L	7004.120
⌈>	197	Au-1			854493.564	ug/L	924783.275
|	205	Tl	1.381390	14.903	33857.138	ug/L	7516.719
⌊	208	Pb	8.229424	2.059	233326.343	ug/L	5342.778
⌈>	197	Au-2			854493.564	ug/L	924783.275
|	206	Pb	8.254677	1.609	59158.829	ug/L	1321.741
⌊	207	Pb	7.885179	2.645	49078.997	ug/L	1194.729
⌈>	45	Sc			241455.252	ug/L	257624.800
⌊	47	Ti	64.652989	1.552	46871.909	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	93.724	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	88.402	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	92.399	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	92.399	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	93.724	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3V
Sample Date/Time: Tuesday, April 13, 2010 18:49:44
Autosampler Position: 48
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3V.102

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213069.647	ug/L	257624.800
	23	Na	-2.792505	10.539	32197.569	ug/L	50199.597
	24	Mg	189.668044	2.233	434953.501	ug/L	21102.507
	27	Al	1333.309499	1.178	4534980.468	ug/L	31736.052
	39	K	52.157555	2.865	945810.486	ug/L	785433.802
	44	Ca	536.202373	3.417	181943.553	ug/L	89592.624
	57	Fe	3778.143651	0.983	797590.033	ug/L	16392.144
	9	Be	0.046805	42.111	52.334	ug/L	46.334
	51	V	11.594063	0.863	44973.861	ug/L	-38525.530
	52	Cr	1.692878	15.231	38795.679	ug/L	34443.159
	55	Mn	69.840272	2.464	686830.755	ug/L	4030.943
	59	Co	1.134788	3.635	10101.342	ug/L	1553.100
	60	Ni	1.757408	3.626	3948.919	ug/L	941.040
>	72	Ge-1			306814.624	ug/L	365848.721
	65	Cu	1.488008	1.445	3933.247	ug/L	900.704
	66	Zn	5.462295	6.108	12473.236	ug/L	7004.120
>	197	Au-1			862658.974	ug/L	924783.275
	205	Tl	0.552032	14.100	17856.039	ug/L	7516.719
	208	Pb	1.402028	3.000	44285.819	ug/L	5342.778
>	197	Au-2			862658.974	ug/L	924783.275
	206	Pb	1.404059	3.197	11186.495	ug/L	1321.741
	207	Pb	1.363434	5.122	9495.257	ug/L	1194.729
>	45	Sc			213069.647	ug/L	257624.800
	47	Ti	12.529360	2.942	12396.167	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	82.705	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	83.864	
	Cu	65		
	Zn	66		
>	Au-1	197	93.282	
	Tl	205		
	Pb	208		
>	Au-2	197	93.282	
	Pb	206		
	Pb	207		
>	Sc	45	82.705	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3S
Sample Date/Time: Tuesday, April 13, 2010 18:53:32
Autosampler Position: 49
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3S.103

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			239002.311	ug/L	257624.800
	23	Na	956.873561	3.164	3622152.019	ug/L	50199.597
	24	Mg	2071.401817	4.730	5129548.651	ug/L	21102.507
	27	Al	13599.998827	3.744	51580495.972	ug/L	31736.052
	39	K	1490.483166	3.290	10221860.829	ug/L	785433.802
	44	Ca	4424.692405	3.441	1081077.572	ug/L	89592.624
	57	Fe	14156.437387	1.083	3309861.833	ug/L	16392.144
	9	Be	105.621667	3.705	35586.960	ug/L	46.334
	51	V	138.039325	1.365	990085.179	ug/L	-38525.530
	52	Cr	115.912588	1.482	824955.922	ug/L	34443.159
	55	Mn	393.490189	2.914	4322062.300	ug/L	4030.943
	59	Co	107.519387	2.006	937921.666	ug/L	1553.100
	60	Ni	106.789453	1.637	216925.282	ug/L	941.040
>	72	Ge-1			315390.059	ug/L	365848.721
	65	Cu	111.227093	2.894	244977.725	ug/L	900.704
	66	Zn	134.414164	1.293	173039.315	ug/L	7004.120
>	197	Au-1			838767.815	ug/L	924783.275
	205	Tl	100.487995	2.747	1927668.447	ug/L	7516.719
	208	Pb	108.579525	2.922	2962440.989	ug/L	5342.778
>	197	Au-2			838767.815	ug/L	924783.275
	206	Pb	104.936347	4.813	723880.361	ug/L	1321.741
	207	Pb	113.895620	2.826	681241.606	ug/L	1194.729
>	45	Sc			239002.311	ug/L	257624.800
	47	Ti	192.761668	2.435	126191.516	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.771	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	86.208	
	Cu	65		
	Zn	66		
>	Au-1	197	90.699	
	Tl	205		
	Pb	208		
>	Au-2	197	90.699	
	Pb	206		
	Pb	207		
>	Sc	45	92.771	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3D
Sample Date/Time: Tuesday, April 13, 2010 18:57:20
Autosampler Position: 50
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3D.104

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			237306.795	ug/L	257624.800
|	23	Na	983.395512	5.688	3692754.093	ug/L	50199.597
|	24	Mg	2332.515708	4.014	5733215.542	ug/L	21102.507
|	27	Al	13334.585572	2.663	50220502.094	ug/L	31736.052
|	39	K	1503.357035	2.379	10231363.308	ug/L	785433.802
|	44	Ca	4303.595762	2.277	1046523.116	ug/L	89592.624
|	57	Fe	13592.246985	4.092	3153879.522	ug/L	16392.144
|	9	Be	104.970068	3.627	35116.460	ug/L	46.334
|	51	V	138.614688	1.626	987183.258	ug/L	-38525.530
|	52	Cr	117.118653	2.806	827076.921	ug/L	34443.159
|	55	Mn	398.765782	5.021	4347414.211	ug/L	4030.943
|	59	Co	106.588744	2.676	923095.898	ug/L	1553.100
⌊	60	Ni	107.672317	3.353	217077.352	ug/L	941.040
⌈>	72	Ge-1			312189.272	ug/L	365848.721
|	65	Cu	111.772498	2.231	243633.209	ug/L	900.704
⌊	66	Zn	142.679254	0.813	181446.372	ug/L	7004.120
⌈>	197	Au-1			834615.641	ug/L	924783.275
|	205	Tl	101.123135	2.313	1930453.811	ug/L	7516.719
⌊	208	Pb	109.059410	0.596	2961671.796	ug/L	5342.778
⌈>	197	Au-2			834615.641	ug/L	924783.275
|	206	Pb	105.985774	1.471	727857.731	ug/L	1321.741
⌊	207	Pb	112.956257	2.207	672450.366	ug/L	1194.729
⌈>	45	Sc			237306.795	ug/L	257624.800
⌊	47	Ti	188.598020	0.826	122767.776	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	92.113	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	85.333	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	90.250	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	90.250	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	92.113	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 19:01:09
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.105

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			223619.619	ug/L	257624.800
	23	Na	3748.513243	3.882	13143124.647	ug/L	50199.597
	24	Mg	7794.896702	4.881	18005049.798	ug/L	21102.507
	27	Al	3821.812425	3.856	13581588.294	ug/L	31736.052
	39	K	3889.778387	2.705	23855899.420	ug/L	785433.802
	44	Ca	7980.905710	2.021	1762018.971	ug/L	89592.624
	57	Fe	7734.856531	4.501	1696659.095	ug/L	16392.144
	9	Be	1093.764217	4.486	344244.713	ug/L	46.334
	51	V	964.764878	4.036	6668398.156	ug/L	-38525.530
	52	Cr	965.139199	3.762	6203111.138	ug/L	34443.159
	55	Mn	957.135203	5.651	9821705.631	ug/L	4030.943
	59	Co	956.365512	4.450	7788316.950	ug/L	1553.100
	60	Ni	928.310131	4.449	1756403.226	ug/L	941.040
>	72	Ge-1			299655.129	ug/L	365848.721
	65	Cu	1029.655943	1.743	2147797.301	ug/L	900.704
	66	Zn	1012.195605	3.627	1199982.409	ug/L	7004.120
>	197	Au-1			818905.181	ug/L	924783.275
	205	Tl	1004.712903	1.185	18763549.812	ug/L	7516.719
	208	Pb	981.395369	2.071	26107812.390	ug/L	5342.778
>	197	Au-2			818905.181	ug/L	924783.275
	206	Pb	969.324386	1.086	6521810.535	ug/L	1321.741
	207	Pb	994.238922	2.268	5798905.675	ug/L	1194.729
>	45	Sc			223619.619	ug/L	257624.800
	47	Ti	971.313327	2.257	571860.716	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	86.801	
	Na	23		93.713
	Mg	24		97.436
	Al	27		95.545
	K	39		97.244
	Ca	44		99.761
	Fe	57		96.886
	Be	9		109.376
	V	51		96.476
	Cr	52		96.514
	Mn	55		95.714
	Co	59		95.637
	Ni	60		92.831
>	Ge-1	72	81.907	
	Cu	65		102.966
	Zn	66		101.220
>	Au-1	197	88.551	
	Tl	205		100.471
	Pb	208		98.140
>	Au-2	197	88.551	
	Pb	206		96.932
	Pb	207		99.424
>	Sc	45	86.801	
	Tl	47		97.131

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 19:05:29
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.106

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			214547.385	ug/L	257624.800
	23	Na	-5.146281	14.925	24548.841	ug/L	50199.597
	24	Mg	-2.963924	54.669	11031.692	ug/L	21102.507
	27	Al	-3.072938	50.720	16008.496	ug/L	31736.052
	39	K	2.676295	29.623	669393.768	ug/L	785433.802
	44	Ca	-8.354114	90.120	72914.046	ug/L	89592.624
	57	Fe	-6.314331	41.945	12332.264	ug/L	16392.144
	9	Be	0.359929	30.360	147.669	ug/L	46.334
	51	V	1.706277	127.882	-20568.307	ug/L	-38525.530
	52	Cr	-0.247323	144.415	27174.562	ug/L	34443.159
	55	Mn	0.400447	61.295	7322.096	ug/L	4030.943
	59	Co	0.324248	64.776	3841.955	ug/L	1553.100
	60	Ni	0.268402	73.786	1274.073	ug/L	941.040
>	72	Ge-1			307934.284	ug/L	365848.721
	65	Cu	0.341539	64.051	1491.098	ug/L	900.704
	66	Zn	0.522611	45.188	6528.225	ug/L	7004.120
>	197	Au-1			838938.996	ug/L	924783.275
	205	Tl	2.553374	21.557	55625.110	ug/L	7516.719
	208	Pb	0.389077	54.043	15503.507	ug/L	5342.778
>	197	Au-2			838938.996	ug/L	924783.275
	206	Pb	0.371922	58.506	3776.260	ug/L	1321.741
	207	Pb	0.377004	48.482	3346.456	ug/L	1194.729
>	45	Sc			214547.385	ug/L	257624.800
	47	Ti	1.723848	20.981	6438.516	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	83.279	
	Na	23		-514.628
	Mg	24		-296.392
	Al	27		-307.294
	K	39		267.629
	Ca	44		-835.411
	Fe	57		-631.433
	Be	9		35.993
	V	51		170.628
	Cr	52		-24.732
	Mn	55		40.045
	Co	59		32.425
	Ni	60		26.840
>	Ge-1	72	84.170	
	Cu	65		34.154
	Zn	66		52.261
>	Au-1	197	90.717	
	Tl	205		255.337
	Pb	208		38.908
>	Au-2	197	90.717	
	Pb	206		37.192
	Pb	207		37.700
>	Sc	45	83.279	
	Ti	47		172.385

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3A
Sample Date/Time: Tuesday, April 13, 2010 19:09:48
Autosampler Position: 51
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3A.107

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			241975.567	ug/L	257624.800
|	23	Na	489.402562	3.065	1898659.268	ug/L	50199.597
|	24	Mg	1213.975787	4.784	3051675.341	ug/L	21102.507
|	27	Al	6019.914634	4.523	23126145.451	ug/L	31736.052
|	39	K	1083.949959	5.247	7723633.341	ug/L	785433.802
|	44	Ca	3314.823705	3.726	840971.178	ug/L	89592.624
|	57	Fe	15978.323388	2.653	3778844.889	ug/L	16392.144
|	9	Be	5.736624	3.957	2000.827	ug/L	46.334
|	51	V	132.940833	3.380	963546.939	ug/L	-38525.530
|	52	Cr	114.809948	3.991	827250.293	ug/L	34443.159
|	55	Mn	299.312805	3.285	3329060.068	ug/L	4030.943
|	59	Co	25.460304	5.375	225812.557	ug/L	1553.100
⌊	60	Ni	55.601302	3.657	114729.725	ug/L	941.040
⌈>	72	Ge-1			305540.904	ug/L	365848.721
|	65	Cu	18.690273	2.740	40490.045	ug/L	900.704
⌊	66	Zn	82.132208	2.142	104678.168	ug/L	7004.120
⌈>	197	Au-1			828946.834	ug/L	924783.275
|	205	Tl	19.787417	9.500	380494.169	ug/L	7516.719
⌊	208	Pb	39.746404	1.062	1075079.900	ug/L	5342.778
⌈>	197	Au-2			828946.834	ug/L	924783.275
|	206	Pb	38.616591	1.985	264148.315	ug/L	1321.741
⌊	207	Pb	39.958749	2.244	236954.628	ug/L	1194.729
⌈>	45	Sc			241975.567	ug/L	257624.800
⌊	47	Ti	105.854391	4.366	72913.670	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	93.926	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	83.516	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	89.637	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	89.637	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	93.926	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PM
Sample Date/Time: Tuesday, April 13, 2010 19:13:37
Autosampler Position: 52
Dataset File: D:\Elandata\Dataset\041310M1\LW5PM.108

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			233504.027	ug/L	257624.800
	23	Na	37.789589	3.042	183557.170	ug/L	50199.597
	24	Mg	913.379894	1.175	2222630.007	ug/L	21102.507
	27	Al	5664.679304	2.897	21020294.202	ug/L	31736.052
	39	K	201.945500	1.518	1969173.227	ug/L	785433.802
	44	Ca	6227.043697	2.103	1454266.242	ug/L	89592.624
	57	Fe	7478.773214	0.819	1715728.176	ug/L	16392.144
	9	Be	0.339307	3.614	153.669	ug/L	46.334
	51	V	22.053592	1.680	125239.297	ug/L	-38525.530
	52	Cr	5.429815	4.789	67510.175	ug/L	34443.159
	55	Mn	137.430620	2.895	1477718.037	ug/L	4030.943
	59	Co	3.297402	2.712	29473.004	ug/L	1553.100
	60	Ni	5.849339	2.286	12416.852	ug/L	941.040
>	72	Ge-1			302016.684	ug/L	365848.721
	65	Cu	6.643792	0.497	14710.051	ug/L	900.704
	66	Zn	17.124243	1.196	26153.849	ug/L	7004.120
>	197	Au-1			828374.742	ug/L	924783.275
	205	Tl	0.623257	12.536	18491.516	ug/L	7516.719
	208	Pb	8.080152	1.635	222196.712	ug/L	5342.778
>	197	Au-2			828374.742	ug/L	924783.275
	206	Pb	8.120441	0.560	56445.872	ug/L	1321.741
	207	Pb	7.772269	2.366	46915.052	ug/L	1194.729
>	45	Sc			233504.027	ug/L	257624.800
	47	Ti	37.070617	1.018	28531.750	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.637	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	82.552	
	Cu	65		
	Zn	66		
>	Au-1	197	89.575	
	Tl	205		
	Pb	208		
>	Au-2	197	89.575	
	Pb	206		
	Pb	207		
>	Sc	45	90.637	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PT
Sample Date/Time: Tuesday, April 13, 2010 19:17:25
Autosampler Position: 53
Dataset File: D:\Elandata\Dataset\041310M1\LW5PT.109

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			237436.692	ug/L	257624.800
	23	Na	26.904432	3.627	146199.348	ug/L	50199.597
	24	Mg	1269.011096	2.316	3132546.573	ug/L	21102.507
	27	Al	7208.233755	2.735	27191705.091	ug/L	31736.052
	39	K	315.096753	1.199	2718500.926	ug/L	785433.802
	44	Ca	2425.123198	2.020	626275.677	ug/L	89592.624
	57	Fe	12521.059512	2.530	2910451.052	ug/L	16392.144
	9	Be	0.352502	4.989	160.669	ug/L	46.334
	51	V	29.001609	2.209	178666.506	ug/L	-38525.530
	52	Cr	10.128448	2.521	100594.287	ug/L	34443.159
	55	Mn	303.463822	2.197	3314041.230	ug/L	4030.943
	59	Co	5.969905	3.171	53114.506	ug/L	1553.100
	60	Ni	10.578509	3.596	22137.376	ug/L	941.040
[>	72	Ge-1			302331.088	ug/L	365848.721
	65	Cu	9.663747	5.298	21076.769	ug/L	900.704
	66	Zn	31.558003	1.529	43368.832	ug/L	7004.120
[>	197	Au-1			835781.492	ug/L	924783.275
	205	Tl	0.280862	10.830	12143.955	ug/L	7516.719
	208	Pb	11.287967	1.053	311302.572	ug/L	5342.778
[>	197	Au-2			835781.492	ug/L	924783.275
	206	Pb	11.598709	0.856	80835.209	ug/L	1321.741
	207	Pb	10.805103	0.851	65397.677	ug/L	1194.729
[>	45	Sc			237436.692	ug/L	257624.800
	47	Tl	90.748230	1.934	62247.284	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	92.164	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
[>	Ge-1	72	82.638	
	Cu	65		
	Zn	66		
[>	Au-1	197	90.376	
	Tl	205		
	Pb	208		
[>	Au-2	197	90.376	
	Pb	206		
	Pb	207		
[>	Sc	45	92.164	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PX
Sample Date/Time: Tuesday, April 13, 2010 19:21:14
Autosampler Position: 54
Dataset File: D:\Elandata\Dataset\041310M1\LW5PX.110

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			232713.880	ug/L	257624.800
	23	Na	28.592300	3.359	149412.922	ug/L	50199.597
	24	Mg	1024.227602	1.356	2481228.061	ug/L	21102.507
	27	Al	6682.475636	2.238	24704632.512	ug/L	31736.052
	39	K	321.721670	5.428	2704715.698	ug/L	785433.802
	44	Ca	5769.748535	4.313	1348129.805	ug/L	89592.624
	57	Fe	11329.268312	2.134	2581815.882	ug/L	16392.144
	9	Be	0.296284	1.999	139.002	ug/L	46.334
	51	V	25.020800	1.894	146307.117	ug/L	-38525.530
	52	Cr	10.906144	2.218	103765.195	ug/L	34443.159
	55	Mn	352.816679	1.990	3775103.611	ug/L	4030.943
	59	Co	5.636673	2.153	49219.491	ug/L	1553.100
	60	Ni	9.534843	2.286	19634.347	ug/L	941.040
>	72	Ge-1			307960.938	ug/L	365848.721
	65	Cu	8.467001	3.431	18904.027	ug/L	900.704
	66	Zn	31.319775	0.338	43889.424	ug/L	7004.120
>	197	Au-1			851864.380	ug/L	924783.275
	205	Tl	0.163049	15.670	10094.676	ug/L	7516.719
	208	Pb	9.826907	0.799	276888.705	ug/L	5342.778
>	197	Au-2			851864.380	ug/L	924783.275
	206	Pb	9.933639	1.674	70749.582	ug/L	1321.741
	207	Pb	9.431996	4.115	58344.040	ug/L	1194.729
>	45	Sc			232713.880	ug/L	257624.800
	47	Ti	73.221560	1.079	50382.904	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	90.331	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	84.177	
	Cu	65		
	Zn	66		
>	Au-1	197	92.115	
	Tl	205		
	Pb	208		
>	Au-2	197	92.115	
	Pb	206		
	Pb	207		
>	Sc	45	90.331	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P2
Sample Date/Time: Tuesday, April 13, 2010 19:25:06
Autosampler Position: 55
Dataset File: D:\Elandata\Dataset\041310M1\LW5P2.111

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			229650.286	ug/L	257624.800
	23	Na	12.143563	3.935	88364.675	ug/L	50199.597
	24	Mg	686.307424	2.779	1646812.452	ug/L	21102.507
	27	Al	4751.914080	3.213	17342577.240	ug/L	31736.052
	39	K	305.442836	3.297	2569865.070	ug/L	785433.802
	44	Ca	2711.711546	1.447	667877.066	ug/L	89592.624
	57	Fe	9192.553069	1.448	2070561.244	ug/L	16392.144
	9	Be	0.274045	7.059	130.002	ug/L	46.334
	51	V	21.470244	2.741	118969.029	ug/L	-38525.530
	52	Cr	6.832359	2.384	75622.049	ug/L	34443.159
	55	Mn	246.227824	3.424	2601049.802	ug/L	4030.943
	59	Co	4.254734	3.220	36998.230	ug/L	1553.100
[	60	Ni	6.576053	4.494	13622.966	ug/L	941.040
[>	72	Ge-1			305854.678	ug/L	365848.721
	65	Cu	7.038827	2.877	15735.487	ug/L	900.704
[	66	Zn	28.939172	1.470	40719.359	ug/L	7004.120
[>	197	Au-1			842247.642	ug/L	924783.275
	205	Tl	0.101526	10.249	8794.128	ug/L	7516.719
[	208	Pb	14.371113	1.360	398062.101	ug/L	5342.778
[>	197	Au-2			842247.642	ug/L	924783.275
	206	Pb	14.497455	1.540	101516.499	ug/L	1321.741
[	207	Pb	13.769201	1.591	83682.937	ug/L	1194.729
[>	45	Sc			229650.286	ug/L	257624.800
[	47	Ti	43.181800	1.276	31720.497	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	89.141	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	83.601	
	Cu	65		
[	Zn	66		
[>	Au-1	197	91.075	
	Tl	205		
[	Pb	208		
[>	Au-2	197	91.075	
	Pb	206		
[	Pb	207		
[>	Sc	45	89.141	
[	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P3
Sample Date/Time: Tuesday, April 13, 2010 19:28:54
Autosampler Position: 56
Dataset File: D:\Elandata\Dataset\041310M1\LW5P3.112

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			236556.687	ug/L	257624.800
|	23	Na	30.127047	4.978	157519.739	ug/L	50199.597
|	24	Mg	987.294305	1.609	2431795.396	ug/L	21102.507
|	27	Al	6486.288339	3.220	24375089.987	ug/L	31736.052
|	39	K	228.774979	1.315	2164210.369	ug/L	785433.802
|	44	Ca	4206.906955	1.734	1021753.381	ug/L	89592.624
|	57	Fe	11654.872324	4.961	2698372.060	ug/L	16392.144
|	9	Be	0.273469	10.157	133.669	ug/L	46.334
|	51	V	24.661606	3.848	145975.048	ug/L	-38525.530
|	52	Cr	9.716925	2.513	97425.077	ug/L	34443.159
|	55	Mn	241.778470	3.800	2630135.316	ug/L	4030.943
|	59	Co	5.753246	4.766	51021.200	ug/L	1553.100
⌊	60	Ni	7.870287	3.199	16624.837	ug/L	941.040
⌈>	72	Ge-1			314108.512	ug/L	365848.721
|	65	Cu	7.223054	2.978	16562.101	ug/L	900.704
⌊	66	Zn	24.473908	1.046	36296.781	ug/L	7004.120
⌈>	197	Au-1			831628.579	ug/L	924783.275
|	205	Tl	0.034194	30.391	7408.663	ug/L	7516.719
⌊	208	Pb	9.089768	2.593	250341.280	ug/L	5342.778
⌈>	197	Au-2			831628.579	ug/L	924783.275
|	206	Pb	9.280434	0.979	64591.003	ug/L	1321.741
⌊	207	Pb	8.806021	2.790	53223.516	ug/L	1194.729
⌈>	45	Sc			236556.687	ug/L	257624.800
⌊	47	Ti	69.064256	3.944	48623.443	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	91.822	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	85.857	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	89.927	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	89.927	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	91.822	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P5
Sample Date/Time: Tuesday, April 13, 2010 19:32:43
Autosampler Position: 57
Dataset File: D:\Elandata\Dataset\041310M1\LW5P5.113

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			241443.062	ug/L	257624.800
|	23	Na	19.723985	1.843	121542.400	ug/L	50199.597
|	24	Mg	844.348615	3.197	2125722.439	ug/L	21102.507
|	27	Al	6269.082197	3.179	24047470.395	ug/L	31736.052
|	39	K	220.720689	2.773	2156731.105	ug/L	785433.802
|	44	Ca	1762.971559	1.755	485861.114	ug/L	89592.624
|	57	Fe	10106.527155	2.870	2391459.159	ug/L	16392.144
|	9	Be	0.314478	15.133	150.336	ug/L	46.334
|	51	V	25.824126	1.667	157826.807	ug/L	-38525.530
|	52	Cr	8.750654	4.895	92758.196	ug/L	34443.159
|	55	Mn	335.310090	3.460	3722650.248	ug/L	4030.943
|	59	Co	4.289316	2.972	39206.803	ug/L	1553.100
⌊	60	Ni	7.650947	4.051	16521.052	ug/L	941.040
⌈>	72	Ge-1			317480.407	ug/L	365848.721
|	65	Cu	6.851155	1.950	15923.034	ug/L	900.704
⌊	66	Zn	20.123690	1.350	31247.131	ug/L	7004.120
⌈>	197	Au-1			867291.612	ug/L	924783.275
|	205	Tl	0.060424	29.284	8243.463	ug/L	7516.719
⌊	208	Pb	8.110533	1.424	233504.625	ug/L	5342.778
⌈>	197	Au-2			867291.612	ug/L	924783.275
|	206	Pb	8.174704	2.944	59479.545	ug/L	1321.741
⌊	207	Pb	7.821942	1.426	49431.200	ug/L	1194.729
⌈>	45	Sc			241443.062	ug/L	257624.800
⌊	47	Ti	75.661738	1.019	53800.654	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	93.719	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	86.779	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	93.783	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	93.783	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	93.719	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P7
Sample Date/Time: Tuesday, April 13, 2010 19:36:32
Autosampler Position: 58
Dataset File: D:\Elandata\Dataset\041310M1\LW5P7.114

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			237768.428	ug/L	257624.800
	23	Na	13.306832	4.515	95836.173	ug/L	50199.597
	24	Mg	906.734584	1.512	2247013.693	ug/L	21102.507
	27	Al	6430.445407	0.942	24294807.563	ug/L	31736.052
	39	K	310.228605	1.404	2691676.738	ug/L	785433.802
	44	Ca	2224.177508	1.308	582062.844	ug/L	89592.624
	57	Fe	12888.023912	0.278	2999576.604	ug/L	16392.144
	9	Be	0.370707	13.682	167.003	ug/L	46.334
	51	V	28.458218	2.247	174883.441	ug/L	-38525.530
	52	Cr	14.745520	4.427	132195.782	ug/L	34443.159
	55	Mn	463.319466	1.355	5065349.379	ug/L	4030.943
	59	Co	5.893648	2.661	52523.619	ug/L	1553.100
	60	Ni	9.103055	1.127	19197.418	ug/L	941.040
>	72	Ge-1			316980.225	ug/L	365848.721
	65	Cu	8.755982	2.321	20099.001	ug/L	900.704
	66	Zn	30.644052	2.891	44331.817	ug/L	7004.120
>	197	Au-1			859978.632	ug/L	924783.275
	205	Tl	0.050134	44.898	7970.639	ug/L	7516.719
	208	Pb	11.333446	3.036	321547.262	ug/L	5342.778
>	197	Au-2			859978.632	ug/L	924783.275
	206	Pb	11.581815	2.280	83046.885	ug/L	1321.741
	207	Pb	11.047884	2.918	68767.853	ug/L	1194.729
>	45	Sc			237768.428	ug/L	257624.800
	47	Tl	68.054965	2.299	48264.555	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.293	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	86.642	
	Cu	65		
	Zn	66		
>	Au-1	197	92.992	
	Tl	205		
	Pb	208		
>	Au-2	197	92.992	
	Pb	206		
	Pb	207		
>	Sc	45	92.293	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P9
Sample Date/Time: Tuesday, April 13, 2010 19:40:21
Autosampler Position: 59
Dataset File: D:\Elandata\Dataset\041310M1\LW5P9.115

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			229787.744	ug/L	257624.800
	23	Na	16.568209	5.942	104335.368	ug/L	50199.597
	24	Mg	910.398192	0.552	2180047.782	ug/L	21102.507
	27	Al	6108.238733	1.320	22300726.756	ug/L	31736.052
	39	K	333.449432	3.107	2742675.863	ug/L	785433.802
	44	Ca	2422.345851	1.744	605518.238	ug/L	89592.624
	57	Fe	10094.571838	1.240	2274066.358	ug/L	16392.144
	9	Be	0.247377	13.128	121.335	ug/L	46.334
	51	V	21.053235	2.386	116102.359	ug/L	-38525.530
	52	Cr	8.329495	2.354	85524.183	ug/L	34443.159
	55	Mn	275.043918	0.906	2907721.154	ug/L	4030.943
	59	Co	5.845962	1.610	50368.876	ug/L	1553.100
	60	Ni	8.195704	4.058	16786.704	ug/L	941.040
>	72	Ge-1			313280.502	ug/L	365848.721
	65	Cu	7.767603	0.405	17708.149	ug/L	900.704
	66	Zn	34.275717	1.711	48294.018	ug/L	7004.120
>	197	Au-1			854711.072	ug/L	924783.275
	205	Tl	0.033024	62.378	7581.754	ug/L	7516.719
	208	Pb	9.610513	5.161	271485.996	ug/L	5342.778
>	197	Au-2			854711.072	ug/L	924783.275
	206	Pb	9.725958	4.574	69446.765	ug/L	1321.741
	207	Pb	9.314155	4.619	57748.423	ug/L	1194.729
>	45	Sc			229787.744	ug/L	257624.800
	47	Ti	66.053946	1.462	45440.945	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	89.195	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	85.631	
	Cu	65		
	Zn	66		
>	Au-1	197	92.423	
	Tl	205		
	Pb	208		
>	Au-2	197	92.423	
	Pb	206		
	Pb	207		
>	Sc	45	89.195	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5QC
Sample Date/Time: Tuesday, April 13, 2010 19:44:09
Autosampler Position: 60
Dataset File: D:\Elandata\Dataset\041310M1\LW5QC.116

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			231086.371	ug/L	257624.800
|	23	Na	33.820458	5.714	167325.996	ug/L	50199.597
|	24	Mg	916.071941	3.082	2206240.234	ug/L	21102.507
|	27	Al	6692.515666	1.005	24572911.649	ug/L	31736.052
|	39	K	249.206463	3.989	2239964.863	ug/L	785433.802
|	44	Ca	2797.191055	1.125	690702.922	ug/L	89592.624
|	57	Fe	11346.337016	1.923	2568445.762	ug/L	16392.144
|	9	Be	0.282740	15.685	133.669	ug/L	46.334
|	51	V	24.533466	3.052	141755.620	ug/L	-38525.530
|	52	Cr	7.777086	3.295	82357.625	ug/L	34443.159
|	55	Mn	362.596656	1.142	3853490.501	ug/L	4030.943
|	59	Co	5.250670	2.811	45625.221	ug/L	1553.100
⌊	60	Ni	8.090131	1.159	16675.228	ug/L	941.040
⌈>	72	Ge-1			314347.042	ug/L	365848.721
|	65	Cu	8.112436	1.174	18523.856	ug/L	900.704
⌊	66	Zn	24.387196	0.593	36216.552	ug/L	7004.120
⌈>	197	Au-1			836022.550	ug/L	924783.275
|	205	Tl	-0.019467	52.470	6422.842	ug/L	7516.719
⌊	208	Pb	11.939485	3.605	329010.705	ug/L	5342.778
⌈>	197	Au-2			836022.550	ug/L	924783.275
|	206	Pb	11.908331	2.435	82972.130	ug/L	1321.741
⌊	207	Pb	11.653331	4.904	70446.158	ug/L	1194.729
⌈>	45	Sc			231086.371	ug/L	257624.800
⌊	47	Ti	52.900642	1.599	37777.601	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	89.699	
⌈	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	85.923	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	90.402	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	90.402	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	89.699	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 19:47:58
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.117

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			220297.536	ug/L	257624.800
	23	Na	3810.432436	5.159	13163833.251	ug/L	50199.597
	24	Mg	7678.701455	1.695	17491582.103	ug/L	21102.507
	27	Al	3784.590685	2.177	13261855.728	ug/L	31736.052
	39	K	3869.808170	1.182	23405016.732	ug/L	785433.802
	44	Ca	7846.314802	2.394	1708119.950	ug/L	89592.624
	57	Fe	7682.377759	2.272	1661637.398	ug/L	16392.144
	9	Be	1083.651462	3.705	336211.616	ug/L	46.334
	51	V	962.116577	1.901	6557900.865	ug/L	-38525.530
	52	Cr	966.917689	2.551	6127457.765	ug/L	34443.159
	55	Mn	964.081497	2.398	9757404.178	ug/L	4030.943
	59	Co	971.274351	5.956	7794479.949	ug/L	1553.100
	60	Ni	958.694892	2.247	1788508.776	ug/L	941.040
>	72	Ge-1			295510.048	ug/L	365848.721
	65	Cu	1033.531469	1.284	2126182.778	ug/L	900.704
	66	Zn	1014.596755	1.372	1186441.924	ug/L	7004.120
>	197	Au-1			802881.718	ug/L	924783.275
	205	Tl	1003.850980	3.840	18377989.738	ug/L	7516.719
	208	Pb	987.872400	1.685	25768356.359	ug/L	5342.778
>	197	Au-2			802881.718	ug/L	924783.275
	206	Pb	973.614577	3.002	6421983.220	ug/L	1321.741
	207	Pb	994.034310	1.253	5684710.078	ug/L	1194.729
>	45	Sc			220297.536	ug/L	257624.800
	47	Ti	974.107925	1.810	565260.443	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	85.511	
	Na	23		95.261
	Mg	24		95.984
	Al	27		94.615
	K	39		96.745
	Ca	44		98.079
	Fe	57		96.030
	Be	9		108.365
	V	51		96.212
	Cr	52		96.692
	Mn	55		96.408
	Co	59		97.127
	Ni	60		95.869
>	Ge-1	72	80.774	
	Cu	65		103.353
	Zn	66		101.460
>	Au-1	197	86.818	
	Tl	205		100.385
	Pb	208		98.787
>	Au-2	197	86.818	
	Pb	206		97.361
	Pb	207		99.403
>	Sc	45	85.511	
	Ti	47		97.411

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 19:52:18
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.118

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			203945.581	ug/L	257624.800
	23	Na	-5.470047	5.613	22281.935	ug/L	50199.597
	24	Mg	-2.961979	17.429	10459.290	ug/L	21102.507
	27	Al	-3.475974	10.976	13868.232	ug/L	31736.052
	39	K	5.643888	16.288	652437.109	ug/L	785433.802
	44	Ca	1.756574	65.212	71264.371	ug/L	89592.624
	57	Fe	-3.446325	35.252	12291.411	ug/L	16392.144
	9	Be	0.343709	19.589	135.335	ug/L	46.334
	51	V	0.082585	1768.787	-29920.849	ug/L	-38525.530
	52	Cr	-0.070795	339.149	26854.536	ug/L	34443.159
	55	Mn	0.401762	22.582	6951.776	ug/L	4030.943
	59	Co	0.314571	21.827	3566.153	ug/L	1553.100
	60	Ni	0.245223	16.613	1168.060	ug/L	941.040
[>	72	Ge-1			292607.369	ug/L	365848.721
	65	Cu	0.321101	14.659	1373.747	ug/L	900.704
	66	Zn	0.479725	14.339	6154.388	ug/L	7004.120
[>	197	Au-1			803510.610	ug/L	924783.275
	205	Tl	2.128174	20.516	45440.235	ug/L	7516.719
	208	Pb	0.333458	16.617	13355.973	ug/L	5342.778
[>	197	Au-2			803510.610	ug/L	924783.275
	206	Pb	0.312799	17.697	3217.065	ug/L	1321.741
	207	Pb	0.330620	12.714	2931.665	ug/L	1194.729
[>	45	Sc			203945.581	ug/L	257624.800
	47	Ti	2.539055	6.143	6554.236	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	79.194	
	Na	23		-547.005
	Mg	24		-296.198
	Al	27		-347.597
	K	39		564.389
	Ca	44		175.657
	Fe	57		-344.632
	Be	9		34.371
	V	51		8.258
	Cr	52		-7.080
	Mn	55		40.176
	Co	59		31.457
	Ni	60		24.522
[>	Ge-1	72	79.980	
	Cu	65		32.110
	Zn	66		47.972
[>	Au-1	197	86.886	
	Tl	205		212.817
	Pb	208		33.346
[>	Au-2	197	86.886	
	Pb	206		31.280
	Pb	207		33.062
[>	Sc	45	79.164	
	Ti	47		253.905

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EL
Sample Date/Time: Tuesday, April 13, 2010 19:56:37
Autosampler Position: 61
Dataset File: D:\Elandata\Dataset\041310M1\LW7EL.119

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			237238.523	ug/L	257624.800
|	23	Na	25.569220	1.845	141116.438	ug/L	50199.597
|	24	Mg	962.227320	0.873	2377619.051	ug/L	21102.507
|	27	Al	7246.897233	2.310	27305398.464	ug/L	31736.052
|	39	K	265.590553	1.940	2402908.335	ug/L	785433.802
|	44	Ca	2078.398378	2.730	548256.307	ug/L	89592.624
|	57	Fe	11222.816649	0.866	2607899.939	ug/L	16392.144
|	9	Be	0.375238	6.521	168.003	ug/L	46.334
|	51	V	24.394613	0.652	144527.690	ug/L	-38525.530
|	52	Cr	7.546112	3.502	82963.084	ug/L	34443.159
|	55	Mn	327.865498	2.399	3576472.207	ug/L	4030.943
|	59	Co	5.638024	0.534	50191.869	ug/L	1553.100
⌊	60	Ni	7.282857	3.356	15490.883	ug/L	941.040
⌈>	72	Ge-1			304053.062	ug/L	365848.721
|	65	Cu	8.173537	1.316	18044.569	ug/L	900.704
⌊	66	Zn	25.797733	0.799	36720.511	ug/L	7004.120
⌈>	197	Au-1			848031.311	ug/L	924783.275
|	205	Tl	0.398135	10.006	14580.257	ug/L	7516.719
⌊	208	Pb	9.386204	4.170	263271.089	ug/L	5342.778
⌈>	197	Au-2			848031.311	ug/L	924783.275
|	206	Pb	9.410534	3.868	66726.150	ug/L	1321.741
⌊	207	Pb	8.930277	4.933	54983.867	ug/L	1194.729
⌈>	45	Sc			237238.523	ug/L	257624.800
⌊	47	Ti	73.418151	2.788	51465.400	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	92.087	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	83.109	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	91.701	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	91.701	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	92.087	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ER
Sample Date/Time: Tuesday, April 13, 2010 20:00:25
Autosampler Position: 62
Dataset File: D:\Elandata\Dataset\041310M1\LW7ER.120

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			241953.141	ug/L	257624.800
	23	Na	21.380181	4.752	128077.533	ug/L	50199.597
	24	Mg	1002.560852	0.346	2525958.629	ug/L	21102.507
	27	Al	7750.196919	1.613	29789346.278	ug/L	31736.052
	39	K	284.692118	1.873	2574226.592	ug/L	785433.802
	44	Ca	3186.273255	1.320	812099.747	ug/L	89592.624
	57	Fe	11053.383298	2.632	2620009.559	ug/L	16392.144
	9	Be	0.282040	10.715	139.669	ug/L	46.334
	51	V	24.026210	2.736	144610.243	ug/L	-38525.530
	52	Cr	8.574229	1.137	91749.947	ug/L	34443.159
	55	Mn	254.765636	1.962	2835868.069	ug/L	4030.943
	59	Co	4.028559	0.641	36994.877	ug/L	1553.100
	60	Ni	8.151252	4.360	17584.671	ug/L	941.040
>	72	Ge-1			312839.384	ug/L	365848.721
	65	Cu	8.927785	2.398	20214.173	ug/L	900.704
	66	Zn	29.893215	2.552	42832.928	ug/L	7004.120
>	197	Au-1			843279.812	ug/L	924783.275
	205	Tl	0.208634	16.662	10855.569	ug/L	7516.719
	208	Pb	8.305591	2.910	232296.575	ug/L	5342.778
>	197	Au-2			843279.812	ug/L	924783.275
	206	Pb	8.504485	2.613	60099.421	ug/L	1321.741
	207	Pb	8.005677	3.373	49154.615	ug/L	1194.729
>	45	Sc			241953.141	ug/L	257624.800
	47	Ti	67.595603	4.141	48826.858	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.917	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	85.511	
	Cu	65		
	Zn	66		
>	Au-1	197	91.187	
	Tl	205		
	Pb	208		
>	Au-2	197	91.187	
	Pb	206		
	Pb	207		
>	Sc	45	93.917	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EW
Sample Date/Time: Tuesday, April 13, 2010 20:04:13
Autosampler Position: 63
Dataset File: D:\Elandata\Dataset\041310M1\LW7EW.121

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			241492.529	ug/L	257624.800
	23	Na	34.308213	0.971	176660.775	ug/L	50199.597
	24	Mg	1309.614689	1.281	3286998.531	ug/L	21102.507
	27	Al	7642.658098	1.415	29317026.029	ug/L	31736.052
	39	K	313.805014	1.191	2756535.719	ug/L	785433.802
	44	Ca	3044.094368	2.703	778017.586	ug/L	89592.624
	57	Fe	12438.472035	4.081	2940749.687	ug/L	16392.144
	9	Be	0.355301	3.453	164.336	ug/L	46.334
	51	V	30.752719	0.932	194836.005	ug/L	-38525.530
	52	Cr	10.648910	1.507	105921.055	ug/L	34443.159
	55	Mn	353.711185	2.866	3929635.353	ug/L	4030.943
	59	Co	4.946239	2.200	45007.282	ug/L	1553.100
	60	Ni	9.519384	2.931	20351.370	ug/L	941.040
>	72	Ge-1			314007.844	ug/L	365848.721
	65	Cu	9.605913	3.180	21761.783	ug/L	900.704
	66	Zn	31.660388	2.059	45165.068	ug/L	7004.120
>	197	Au-1			844235.904	ug/L	924783.275
	205	Tl	0.133180	6.766	9425.203	ug/L	7516.719
	208	Pb	9.878622	3.466	275804.214	ug/L	5342.778
>	197	Au-2			844235.904	ug/L	924783.275
	206	Pb	9.994766	2.600	70529.462	ug/L	1321.741
	207	Pb	9.334679	1.768	57218.625	ug/L	1194.729
>	45	Sc			241492.529	ug/L	257624.800
	47	Tl	88.545949	0.528	61932.956	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	93.738	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	85.830	
	Cu	65		
	Zn	66		
>	Au-1	197	91.290	
	Tl	205		
	Pb	208		
>	Au-2	197	91.290	
	Pb	206		
	Pb	207		
>	Sc	45	93.738	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EX
Sample Date/Time: Tuesday, April 13, 2010 20:08:01
Autosampler Position: 64
Dataset File: D:\Elandata\Dataset\041310M1\LW7EX.122

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			230416.347	ug/L	257624.800
	23	Na	16.215956	5.254	103304.612	ug/L	50199.597
	24	Mg	1120.093408	3.682	2683740.519	ug/L	21102.507
	27	Al	4838.311570	0.501	17719028.797	ug/L	31736.052
	39	K	323.731223	1.604	2691191.663	ug/L	785433.802
	44	Ca	6160.782309	0.644	1420402.255	ug/L	89592.624
	57	Fe	8078.726712	3.829	1826297.594	ug/L	16392.144
	9	Be	0.210350	6.829	109.668	ug/L	46.334
	51	V	19.676350	3.067	106502.536	ug/L	-38525.530
	52	Cr	5.524609	4.994	67221.802	ug/L	34443.159
	55	Mn	262.098546	2.458	2776960.640	ug/L	4030.943
	59	Co	3.506864	1.420	30841.573	ug/L	1553.100
	60	Ni	6.239724	3.284	13008.383	ug/L	941.040
>	72	Ge-1			308720.040	ug/L	365848.721
	65	Cu	6.521483	1.182	14773.116	ug/L	900.704
	66	Zn	34.090853	1.259	47370.567	ug/L	7004.120
>	197	Au-1			843718.110	ug/L	924783.275
	205	Tl	0.072634	10.383	8256.804	ug/L	7516.719
	208	Pb	9.231745	1.952	257843.309	ug/L	5342.778
>	197	Au-2			843718.110	ug/L	924783.275
	206	Pb	9.338899	0.902	65931.129	ug/L	1321.741
	207	Pb	8.886644	1.187	54481.907	ug/L	1194.729
>	45	Sc			230416.347	ug/L	257624.800
	47	Ti	52.408629	3.765	37361.194	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	89.439	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	84.385	
	Cu	65		
	Zn	66		
>	Au-1	197	91.234	
	Tl	205		
	Pb	208		
>	Au-2	197	91.234	
	Pb	206		
	Pb	207		
>	Sc	45	89.439	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E1
Sample Date/Time: Tuesday, April 13, 2010 20:11:50
Autosampler Position: 65
Dataset File: D:\Elandata\Dataset\041310M1\LW7E1.123

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			239520.654	ug/L	257624.800
	23	Na	20.922303	1.241	125075.104	ug/L	50199.597
	24	Mg	929.922398	1.109	2320760.744	ug/L	21102.507
	27	Al	6147.480533	2.124	23398000.006	ug/L	31736.052
	39	K	258.422500	2.973	2380669.548	ug/L	785433.802
	44	Ca	3309.819533	0.621	831890.355	ug/L	89592.624
	57	Fe	14022.888117	1.408	3286462.109	ug/L	16392.144
	9	Be	0.368227	12.371	167.336	ug/L	46.334
	51	V	26.118488	1.532	158741.864	ug/L	-38525.530
	52	Cr	9.056312	3.342	94129.439	ug/L	34443.159
	55	Mn	265.046038	2.187	2920601.145	ug/L	4030.943
	59	Co	4.812988	1.631	43474.166	ug/L	1553.100
	60	Ni	9.542893	2.426	20230.857	ug/L	941.040
>	72	Ge-1			306177.444	ug/L	365848.721
	65	Cu	19.853129	2.442	43052.211	ug/L	900.704
	66	Zn	29.416090	1.531	41333.123	ug/L	7004.120
>	197	Au-1			833459.114	ug/L	924783.275
	205	Tl	0.049550	16.301	7714.160	ug/L	7516.719
	208	Pb	9.655108	2.480	266153.706	ug/L	5342.778
>	197	Au-2			833459.114	ug/L	924783.275
	206	Pb	9.891222	2.838	68892.074	ug/L	1321.741
	207	Pb	9.225507	2.136	55825.095	ug/L	1194.729
>	45	Sc			239520.654	ug/L	257624.800
	47	Tl	65.098241	1.994	46778.284	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	92.973	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	83.690	
	Cu	65		
	Zn	66		
>	Au-1	197	90.125	
	Tl	205		
	Pb	208		
>	Au-2	197	90.125	
	Pb	206		
	Pb	207		
>	Sc	45	92.973	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E2
Sample Date/Time: Tuesday, April 13, 2010 20:15:39
Autosampler Position: 66
Dataset File: D:\Elandata\Dataset\041310M1\LW7E2.124

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			232348.904	ug/L	257624.800
|	23	Na	23.821839	8.006	131716.921	ug/L	50199.597
|	24	Mg	925.787272	2.586	2240138.998	ug/L	21102.507
|	27	Al	6574.419909	4.413	24247695.722	ug/L	31736.052
|	39	K	336.576830	4.198	2791639.336	ug/L	785433.802
|	44	Ca	3678.239806	1.348	887734.406	ug/L	89592.624
|	57	Fe	11711.680165	5.270	2662997.570	ug/L	16392.144
|	9	Be	0.374186	11.375	164.336	ug/L	46.334
|	51	V	26.996343	4.830	160127.766	ug/L	-38525.530
|	52	Cr	8.264647	8.485	85949.748	ug/L	34443.159
|	55	Mn	325.340611	3.856	3474403.208	ug/L	4030.943
|	59	Co	4.931901	6.117	43140.216	ug/L	1553.100
⌊	60	Ni	7.505569	4.608	15602.006	ug/L	941.040
⌈>	72	Ge-1			307793.830	ug/L	365848.721
|	65	Cu	7.798493	1.781	17463.176	ug/L	900.704
⌊	66	Zn	28.312428	1.036	40220.953	ug/L	7004.120
⌈>	197	Au-1			825256.172	ug/L	924783.275
|	205	Tl	0.025253	42.987	7182.878	ug/L	7516.719
⌊	208	Pb	10.465711	2.394	285333.597	ug/L	5342.778
⌈>	197	Au-2			825256.172	ug/L	924783.275
|	206	Pb	10.564617	2.219	72802.482	ug/L	1321.741
⌊	207	Pb	10.107466	3.159	60475.773	ug/L	1194.729
⌈>	45	Sc			232348.904	ug/L	257624.800
⌊	47	Ti	74.202260	4.245	50850.852	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	90.189	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	84.131	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	89.238	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	89.238	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	90.189	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E3
Sample Date/Time: Tuesday, April 13, 2010 20:19:27
Autosampler Position: 67
Dataset File: D:\Elandata\Dataset\041310M1\LW7E3.125

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			228604.651	ug/L	257624.800
23	Na	36.879380	0.543	176437.655	ug/L	50199.597
24	Mg	906.443780	1.012	2159510.321	ug/L	21102.507
27	Al	5605.894856	0.162	20366256.850	ug/L	31736.052
39	K	293.796795	2.277	2487974.595	ug/L	785433.802
44	Ca	3127.539343	1.830	754708.368	ug/L	89592.624
57	Fe	10321.364859	0.633	2312597.289	ug/L	16392.144
9	Be	0.300483	26.428	138.002	ug/L	46.334
51	V	23.076749	0.907	129878.386	ug/L	-38525.530
52	Cr	6.362563	5.248	72195.736	ug/L	34443.159
55	Mn	737.264339	0.712	7747417.417	ug/L	4030.943
59	Co	7.046105	2.260	60102.814	ug/L	1553.100
60	Ni	8.626700	4.004	17530.264	ug/L	941.040
72	Ge-1			305514.748	ug/L	365848.721
65	Cu	7.553664	1.888	16815.060	ug/L	900.704
66	Zn	29.902549	0.082	41835.921	ug/L	7004.120
197	Au-1			825781.864	ug/L	924783.275
205	Tl	-0.018756	27.218	6358.812	ug/L	7516.719
208	Pb	13.184562	1.543	358449.685	ug/L	5342.778
197	Au-2			825781.864	ug/L	924783.275
206	Pb	13.176443	1.110	90570.456	ug/L	1321.741
207	Pb	12.716654	2.001	75851.958	ug/L	1194.729
45	Sc			228604.651	ug/L	257624.800
47	Tl	71.203002	1.843	48279.597	ug/L	6572.911

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	88.735	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	83.508	
Cu	65		
Zn	66		
Au-1	197	89.295	
Tl	205		
Pb	208		
Au-2	197	89.295	
Pb	206		
Pb	207		
Sc	45	88.735	
Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV
Sample Date/Time: Tuesday, April 13, 2010 20:31:42
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\CCV.126

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			218781.613	ug/L	257624.800
|	23	Na	3908.771165	0.706	13420767.473	ug/L	50199.597
|	24	Mg	7693.346729	0.344	17407675.472	ug/L	21102.507
|	27	Al	3822.839655	1.307	13300513.428	ug/L	31736.052
|	39	K	3820.047636	1.612	22953586.781	ug/L	785433.802
|	44	Ca	7907.258442	1.228	1709464.227	ug/L	89592.624
|	57	Fe	7649.661819	0.952	1643724.221	ug/L	16392.144
|	9	Be	1116.454309	2.972	344147.037	ug/L	46.334
|	51	V	960.455373	2.754	6500798.709	ug/L	-38525.530
|	52	Cr	978.660561	2.443	6158853.662	ug/L	34443.159
|	55	Mn	964.271527	0.464	9696559.591	ug/L	4030.943
|	59	Co	975.643424	1.584	7782324.874	ug/L	1553.100
⌊	60	Ni	952.513150	0.595	1765468.159	ug/L	941.040
⌈>	72	Ge-1			301659.671	ug/L	365848.721
|	65	Cu	1004.436620	5.837	2109609.802	ug/L	900.704
⌊	66	Zn	1006.535685	1.775	1201810.454	ug/L	7004.120
⌈>	197	Au-1			826797.829	ug/L	924783.275
|	205	Tl	1002.300239	2.029	18899103.581	ug/L	7516.719
⌊	208	Pb	980.259154	2.524	26332852.220	ug/L	5342.778
⌈>	197	Au-2			826797.829	ug/L	924783.275
|	206	Pb	960.173262	2.313	6522865.447	ug/L	1321.741
⌊	207	Pb	985.086761	3.384	5802336.012	ug/L	1194.729
⌈>	45	Sc			218781.613	ug/L	257624.800
⌊	47	Ti	962.600185	2.499	554707.050	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	84.923	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	82.455	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	89.404	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	89.404	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	84.923	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Cu	65	H
Zn	66	H
Tl	205	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB
Sample Date/Time: Tuesday, April 13, 2010 20:35:32
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\CCB.127

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			207040.979	ug/L	257624.800
	23	Na	-4.670067	14.011	25215.933	ug/L	50199.597
	24	Mg	-1.732978	55.312	13251.711	ug/L	21102.507
	27	Al	-3.021488	16.744	15570.030	ug/L	31736.052
	39	K	5.965082	70.283	663866.952	ug/L	785433.802
	44	Ca	1.931521	308.976	72364.887	ug/L	89592.624
	57	Fe	-3.072043	111.818	12544.743	ug/L	16392.144
	9	Be	0.476273	18.030	176.003	ug/L	46.334
	51	V	0.052754	1952.458	-30711.698	ug/L	-38525.530
	52	Cr	-0.008422	312.784	27631.985	ug/L	34443.159
	55	Mn	0.558647	16.364	8550.327	ug/L	4030.943
	59	Co	0.477606	22.373	4849.886	ug/L	1553.100
	60	Ni	0.448203	28.162	1541.100	ug/L	941.040
>	72	Ge-1			297227.584	ug/L	365848.721
	65	Cu	0.476235	25.770	1717.789	ug/L	900.704
	66	Zn	0.642297	15.510	6442.851	ug/L	7004.120
>	197	Au-1			818981.101	ug/L	924783.275
	205	Tl	2.323355	22.389	50089.881	ug/L	7516.719
	208	Pb	0.500202	21.812	18048.380	ug/L	5342.778
>	197	Au-2			818981.101	ug/L	924783.275
	206	Pb	0.494512	22.337	4499.767	ug/L	1321.741
	207	Pb	0.508564	19.831	4025.616	ug/L	1194.729
>	45	Sc			207040.979	ug/L	257624.800
	47	Ti	3.499754	9.706	7170.204	ug/L	6572.911

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	80.365	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	81.243	
	Cu	65		
	Zn	66		
>	Au-1	197	88.559	
	Tl	205		
	Pb	208		
>	Au-2	197	88.559	
	Pb	206		
	Pb	207		
>	Sc	45	80.365	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank
Sample Date/Time: Tuesday, April 13, 2010 20:40:20
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041310M1\Blank.128

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			206128.037	ug/L	
	23	Na			24559.004	ug/L	
	24	Mg			8895.527	ug/L	
	27	Al			13997.999	ug/L	
	39	K			660038.170	ug/L	
	44	Ca			72272.079	ug/L	
	57	Fe			11492.062	ug/L	
	9	Be			82.001	ug/L	
	51	V			-29632.556	ug/L	
	52	Cr			26744.960	ug/L	
	55	Mn			4686.817	ug/L	
	59	Co			2017.830	ug/L	
	60	Ni			873.702	ug/L	
>	72	Ge-1			299297.540	ug/L	
	65	Cu			991.378	ug/L	
	66	Zn			6028.333	ug/L	
>	197	Au-1			830146.103	ug/L	
	205	Tl			17458.863	ug/L	
	208	Pb			7584.530	ug/L	
>	197	Au-2			830146.103	ug/L	
	206	Pb			1886.810	ug/L	
	207	Pb			1691.784	ug/L	
>	45	Sc			206128.037	ug/L	
	47	Tl			6769.004	ug/L	

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
>	Au-1	197		
	Tl	205		
	Pb	208		
>	Au-2	197		
	Pb	206		
	Pb	207		
>	Sc	45		
	Tl	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1
Sample Date/Time: Tuesday, April 13, 2010 20:44:38
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041310M1\Standard 1.129

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216498.823	ug/L	206128.037
	23	Na	50.000000	2.704	220940.604	ug/L	24559.004
	24	Mg	50.000000	1.058	137082.685	ug/L	8895.527
	27	Al	30.000000	3.222	122620.290	ug/L	13997.999
	39	K	100.000000	6.429	1284097.593	ug/L	660038.170
	44	Ca	100.000000	15.102	93689.496	ug/L	72272.079
	57	Fe	50.000000	5.396	22193.927	ug/L	11492.062
	9	Be	0.500000	9.400	221.004	ug/L	82.001
	51	V	10.000000	11.604	40885.637	ug/L	-29632.556
	52	Cr	10.000000	1.065	96190.786	ug/L	26744.960
	55	Mn	2.000000	0.439	25723.734	ug/L	4686.817
	59	Co	2.000000	0.499	19175.722	ug/L	2017.830
	60	Ni	5.000000	5.577	10838.222	ug/L	873.702
>	72	Ge-1			308030.567	ug/L	299297.540
	65	Cu	1.000000	4.037	3225.730	ug/L	991.378
	66	Zn	5.000000	3.267	14164.164	ug/L	6028.333
>	197	Au-1			834360.468	ug/L	830146.103
	205	Tl	2.000000	3.835	50327.368	ug/L	17458.863
	208	Pb	3.000000	2.657	92337.356	ug/L	7584.530
>	197	Au-2			834360.468	ug/L	830146.103
	206	Pb	3.000000	1.679	22642.825	ug/L	1886.810
	207	Pb	3.000000	3.082	20406.441	ug/L	1691.784
>	45	Sc			216498.823	ug/L	206128.037
	47	Tl	5.000000	11.493	9183.376	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
>	Au-1	197		
	Tl	205		
	Pb	208		
>	Au-2	197		
	Pb	206		
	Pb	207		
>	Sc	45		
	Tl	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2
Sample Date/Time: Tuesday, April 13, 2010 20:48:56
Autosampler Position: 3
Dataset File: D:\Elandata\Dataset\041310M1\Standard 2.130

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			218555.025	ug/L	206128.037
	23	Na	624.511526	3.097	2218570.619	ug/L	24559.004
	24	Mg	1249.771562	4.188	2900549.848	ug/L	8895.527
	27	Al	624.932952	2.066	2183429.549	ug/L	13997.999
	39	K	624.939984	1.709	4416675.221	ug/L	660038.170
	44	Ca	1251.627873	4.800	359121.073	ug/L	72272.079
	57	Fe	1250.209504	2.309	297708.436	ug/L	11492.062
	9	Be	100.000506	4.375	34204.250	ug/L	82.001
	51	V	100.060313	1.603	742668.871	ug/L	-29632.556
	52	Cr	99.995634	4.256	712377.019	ug/L	26744.960
	55	Mn	100.000883	3.222	1078115.730	ug/L	4686.817
	59	Co	100.000849	1.939	881518.374	ug/L	2017.830
	60	Ni	100.001742	2.955	202667.941	ug/L	873.702
[>	72	Ge-1			312317.561	ug/L	299297.540
	65	Cu	100.000675	3.152	240816.890	ug/L	991.378
	66	Zn	99.956110	0.239	143507.638	ug/L	6028.333
[>	197	Au-1			845420.793	ug/L	830146.103
	205	Tl	100.005154	2.980	1923908.229	ug/L	17458.863
	208	Pb	99.998614	1.817	2825364.192	ug/L	7584.530
[>	197	Au-2			845420.793	ug/L	830146.103
	206	Pb	100.001895	1.284	717677.423	ug/L	1886.810
	207	Pb	99.998630	1.311	624024.161	ug/L	1691.784
[>	45	Sc			218555.025	ug/L	206128.037
	47	Ti	100.069229	3.653	65178.344	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
[>	Ge-1	72		
	Cu	65		
	Zn	66		
[>	Au-1	197		
	Tl	205		
	Pb	208		
[>	Au-2	197		
	Pb	206		
	Pb	207		
[>	Sc	45		
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3
Sample Date/Time: Tuesday, April 13, 2010 20:53:14
Autosampler Position: 4
Dataset File: D:\Elandata\Dataset\041310M1\Standard 3.131

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			222275.515	ug/L	206128.037
	23	Na	3111.865225	2.750	10092761.108	ug/L	24559.004
	24	Mg	6229.061129	2.827	13541521.944	ug/L	8895.527
	27	Al	3115.666618	3.006	10250258.292	ug/L	13997.999
	39	K	3114.524159	3.618	18120377.930	ug/L	660038.170
	44	Ca	6223.293933	1.599	1370080.987	ug/L	72272.079
	57	Fe	6226.335537	1.486	1334169.771	ug/L	11492.062
	9	Be	499.261544	2.116	167276.640	ug/L	82.001
	51	V	496.287900	1.353	3267487.579	ug/L	-29632.556
	52	Cr	497.753212	1.686	3147630.994	ug/L	26744.960
	55	Mn	497.982334	1.154	4944814.057	ug/L	4686.817
	59	Co	497.462573	0.536	3951752.240	ug/L	2017.830
	60	Ni	497.824446	1.955	922709.037	ug/L	873.702
>	72	Ge-1			301597.079	ug/L	299297.540
	65	Cu	498.342962	1.922	1066669.220	ug/L	991.378
	66	Zn	498.187471	0.974	611761.686	ug/L	6028.333
>	197	Au-1			814096.206	ug/L	830146.103
	205	Tl	500.056815	2.497	9218634.406	ug/L	17458.863
	208	Pb	499.345636	4.474	13116184.534	ug/L	7584.530
>	197	Au-2			814096.206	ug/L	830146.103
	206	Pb	498.993135	3.232	3274446.443	ug/L	1886.810
	207	Pb	499.241567	3.017	2882641.040	ug/L	1691.784
>	45	Sc			222275.515	ug/L	206128.037
	47	Ti	499.443851	1.191	293954.555	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45		
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72		
	Cu	65		
	Zn	66		
>	Au-1	197		
	Tl	205		
	Pb	208		
>	Au-2	197		
	Pb	206		
	Pb	207		
>	Sc	45		
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1
Sample Date/Time: Tuesday, April 13, 2010 20:57:33
Autosampler Position: 7
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 1.132

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			213486.385	ug/L	206128.037
	23	Na	4168.055461	2.671	12968549.266	ug/L	24559.004
	24	Mg	4148.580152	3.076	8663377.865	ug/L	8895.527
	27	Al	4132.354498	3.941	13048560.471	ug/L	13997.999
	39	K	4115.146890	2.930	22768334.041	ug/L	660038.170
	44	Ca	4212.266187	3.257	914520.014	ug/L	72272.079
	57	Fe	4093.010243	3.863	845885.758	ug/L	11492.062
	9	Be	1042.826879	2.361	335335.843	ug/L	82.001
	51	V	1013.797600	2.872	6439004.531	ug/L	-29632.556
	52	Cr	1019.684485	3.555	6159558.721	ug/L	26744.960
	55	Mn	1016.215969	3.936	9680368.139	ug/L	4686.817
	59	Co	1019.126916	3.108	7769251.697	ug/L	2017.830
	60	Ni	976.930599	4.086	1737094.539	ug/L	873.702
>	72	Ge-1			292122.133	ug/L	299297.540
	65	Cu	1004.839358	4.580	2081781.319	ug/L	991.378
	66	Zn	987.029328	1.013	1168067.655	ug/L	6028.333
>	197	Au-1			819860.386	ug/L	830146.103
	205	Tl	1052.501938	0.724	19530794.860	ug/L	17458.863
	208	Pb	1015.588313	1.560	26883865.852	ug/L	7584.530
>	197	Au-2			819860.386	ug/L	830146.103
	206	Pb	1040.174912	2.871	6877334.673	ug/L	1886.810
	207	Pb	985.818517	1.057	5734572.698	ug/L	1691.784
>	45	Sc			213486.385	ug/L	206128.037
	47	Ti	1006.731508	3.532	561561.858	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.570	
	Na	23		104.201
	Mg	24		103.715
	Al	27		103.309
	K	39		102.879
	Ca	44		105.307
	Fe	57		102.325
	Be	9		104.283
	V	51		101.380
	Cr	52		101.968
	Mn	55		101.622
	Co	59		101.813
	Ni	60		97.693
>	Ge-1	72	97.603	
	Cu	65		100.484
	Zn	66		98.703
>	Au-1	197	98.761	
	Tl	205		105.250
	Pb	208		101.559
>	Au-2	197	98.761	
	Pb	206		104.017
	Pb	207		98.582
>	Sc	45	103.570	
	Ti	47		100.873

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2
Sample Date/Time: Tuesday, April 13, 2010 21:01:52
Autosampler Position: 1
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 2.133

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			204899.767	ug/L	206128.037
	23	Na	1.215101	41.475	28016.750	ug/L	24559.004
	24	Mg	0.956501	41.464	10755.168	ug/L	8895.527
	27	Al	0.834850	41.360	16446.992	ug/L	13997.999
	39	K	2.062330	161.438	666493.453	ug/L	660038.170
	44	Ca	7.063347	128.080	73169.301	ug/L	72272.079
	57	Fe	-0.004019	45126.740	11418.152	ug/L	11492.062
	9	Be	0.223021	32.452	150.336	ug/L	82.001
	51	V	0.338820	263.229	-27358.810	ug/L	-29632.556
	52	Cr	0.105782	290.658	27179.486	ug/L	26744.960
	55	Mn	0.257311	45.922	7010.150	ug/L	4686.817
	59	Co	0.281544	29.333	4067.962	ug/L	2017.830
	60	Ni	0.265233	28.774	1321.741	ug/L	873.702
>	72	Ge-1			294338.015	ug/L	299297.540
	65	Cu	0.279312	31.942	1558.101	ug/L	991.378
	66	Zn	0.308460	3.771	6294.449	ug/L	6028.333
>	197	Au-1			818931.355	ug/L	830146.103
	205	Tl	1.721952	27.678	49124.664	ug/L	17458.863
	208	Pb	0.316939	23.848	15857.011	ug/L	7584.530
>	197	Au-2			818931.355	ug/L	830146.103
	206	Pb	0.306803	20.308	3886.238	ug/L	1886.810
	207	Pb	0.307402	30.257	3453.792	ug/L	1691.784
>	45	Sc			204899.767	ug/L	206128.037
	47	Ti	0.970769	46.808	7238.906	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	99.404	
	Na	23		121.510
	Mg	24		95.650
	Al	27		83.485
	K	39		206.233
	Ca	44		706.335
	Fe	57		-0.402
	Be	9		22.302
	V	51		33.882
	Cr	52		10.578
	Mn	55		25.731
	Co	59		28.154
	Ni	60		26.523
>	Ge-1	72	98.343	
	Cu	65		27.931
	Zn	66		30.846
>	Au-1	197	98.649	
	Tl	205		172.195
	Pb	208		31.694
>	Au-2	197	98.649	
	Pb	208		30.680
	Pb	207		30.740
>	Sc	45	99.404	
	Ti	47		97.077

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3
Sample Date/Time: Tuesday, April 13, 2010 21:06:10
Autosampler Position: 2
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 3.134

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			207219.421	ug/L	206128.037
	23	Na	62.937088	7.165	214149.452	ug/L	24559.004
	24	Mg	61.969551	6.093	134287.461	ug/L	8895.527
	27	Al	34.863242	6.197	120735.640	ug/L	13997.999
	39	K	113.089081	7.994	1251880.415	ug/L	660038.170
	44	Ca	109.163332	16.477	93702.570	ug/L	72272.079
	57	Fe	55.951256	9.838	22600.371	ug/L	11492.062
	9	Be	0.424689	11.188	214.670	ug/L	82.001
	51	V	12.739719	10.875	49367.690	ug/L	-29632.556
	52	Cr	11.804163	7.373	95717.000	ug/L	26744.960
	55	Mn	2.331131	6.652	26234.670	ug/L	4686.817
	59	Co	2.323049	3.701	19207.763	ug/L	2017.830
	60	Ni	5.566422	5.077	10476.946	ug/L	873.702
[>	72	Ge-1			305291.898	ug/L	299297.540
	65	Cu	1.022140	2.809	3223.729	ug/L	991.378
	66	Zn	6.198914	2.044	13777.112	ug/L	6028.333
[>	197	Au-1			848576.394	ug/L	830146.103
	205	Tl	2.170348	3.888	59494.985	ug/L	17458.863
	208	Pb	3.205388	1.984	95532.170	ug/L	7584.530
[>	197	Au-2			848576.394	ug/L	830146.103
	206	Pb	3.150984	2.029	23481.856	ug/L	1886.810
	207	Pb	3.193625	1.058	20952.904	ug/L	1691.784
[>	45	Sc			207219.421	ug/L	206128.037
	47	Tl	4.867110	9.762	9402.854	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	100.529	
	Na	23		125.874
	Mg	24		123.939
	Al	27		118.211
	K	39		113.089
	Ca	44		109.163
	Fe	57		111.903
	Be	9		84.938
	V	51		127.397
	Cr	52		118.042
	Mn	55		116.557
	Co	59		116.152
	Ni	60		111.328
[>	Ge-1	72	102.003	
	Cu	65		102.214
	Zn	66		123.978
[>	Au-1	197	102.220	
	Tl	205		108.517
	Pb	208		106.846
[>	Au-2	197	102.220	
	Pb	206		105.033
	Pb	207		106.454
[>	Sc	45	100.529	
	Tl	47		97.342

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4
Sample Date/Time: Tuesday, April 13, 2010 21:10:28
Autosampler Position: 5
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 4.135

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			226868.407	ug/L	206128.037
	23	Na	10426.422243	4.628	34420191.876	ug/L	24559.004
	24	Mg	10218.848466	5.108	22651678.797	ug/L	8895.527
	27	Al	10285.098914	2.020	34495723.112	ug/L	13997.999
	39	K	10491.402437	3.532	60552915.243	ug/L	660038.170
	44	Ca	9354.717602	2.045	2061570.213	ug/L	72272.079
	57	Fe	9953.482906	5.423	2167177.068	ug/L	11492.062
	9	Be	-0.218943	6.536	15.333	ug/L	82.001
	51	V	1.086536	170.380	-25015.418	ug/L	-29632.556
	52	Cr	-0.341214	82.241	27221.544	ug/L	26744.960
	55	Mn	-0.205051	10.074	3078.696	ug/L	4686.817
	59	Co	-0.169106	6.064	849.034	ug/L	2017.830
	60	Ni	0.171620	26.478	1284.737	ug/L	873.702
>	72	Ge-1			315458.367	ug/L	299297.540
	65	Cu	0.046387	22.890	1148.391	ug/L	991.378
	66	Zn	1.247907	2.720	7940.620	ug/L	6028.333
>	197	Au-1			822587.986	ug/L	830146.103
	205	Tl	-0.149900	70.971	14517.283	ug/L	17458.863
	208	Pb	-0.165474	6.851	3119.830	ug/L	7584.530
>	197	Au-2			822587.986	ug/L	830146.103
	206	Pb	-0.160199	7.468	806.698	ug/L	1886.810
	207	Pb	-0.167307	8.458	699.691	ug/L	1691.784
>	45	Sc			226868.407	ug/L	206128.037
	47	Ti	220.583061	2.428	136603.042	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	110.062	
	Na	23		104.264
	Mg	24		102.188
	Al	27		102.851
	K	39		104.914
	Ca	44		93.547
	Fe	57		99.535
	Be	9		-43.789
	V	51		10.865
	Cr	52		-3.412
	Mn	55		-10.253
	Co	59		-16.911
	Ni	60		17.162
>	Ge-1	72	105.400	
	Cu	65		4.639
	Zn	66		24.958
>	Au-1	197	99.090	
	Tl	205		-7.495
	Pb	208		-5.516
>	Au-2	197	99.090	
	Pb	206		-16.020
	Pb	207		-16.731
>	Sc	45	110.062	
	Ti	47		110.292

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5
Sample Date/Time: Tuesday, April 13, 2010 21:14:47
Autosampler Position: 6
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 5.136

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			222808.051	ug/L	206128.037
	23	Na	10587.190758	8.594	34295131.445	ug/L	24559.004
	24	Mg	10479.894370	5.831	22806248.568	ug/L	8895.527
	27	Al	10481.934172	4.783	34503174.475	ug/L	13997.999
	39	K	10545.235801	4.652	59764060.215	ug/L	660038.170
	44	Ca	9806.591564	5.739	2117059.711	ug/L	72272.079
	57	Fe	10300.556795	6.241	2202038.027	ug/L	11492.062
	9	Be	103.662825	6.252	34840.812	ug/L	82.001
	51	V	117.998678	3.148	754241.009	ug/L	-29632.556
	52	Cr	110.724247	2.195	723971.972	ug/L	26744.960
	55	Mn	109.434907	2.633	1092617.426	ug/L	4686.817
	59	Co	112.578974	5.607	897099.169	ug/L	2017.830
	60	Ni	107.944684	5.482	201084.203	ug/L	873.702
>	72	Ge-1			319923.416	ug/L	299297.540
	65	Cu	101.685653	3.156	231737.798	ug/L	991.378
	66	Zn	101.566962	2.018	137459.562	ug/L	6028.333
>	197	Au-1			834032.173	ug/L	830146.103
	205	Tl	98.980454	3.114	1884631.191	ug/L	17458.863
	208	Pb	103.249853	1.854	2786958.251	ug/L	7584.530
>	197	Au-2			834032.173	ug/L	830146.103
	206	Pb	103.186635	3.024	695807.977	ug/L	1886.810
	207	Pb	103.431618	1.445	613514.869	ug/L	1691.784
>	45	Sc			222808.051	ug/L	206128.037
	47	Tl	224.658412	2.610	136503.561	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	108.092	
	Na	23		105.872
	Mg	24		104.799
	Al	27		104.819
	K	39		105.452
	Ca	44		98.066
	Fe	57		103.006
	Be	9		103.663
	V	51		117.999
	Cr	52		110.724
	Mn	55		109.435
	Co	59		112.579
	Ni	60		107.945
>	Ge-1	72	106.891	
	Cu	65		101.686
	Zn	66		101.567
>	Au-1	197	100.468	
	Tl	205		98.980
	Pb	208		103.250
>	Au-2	197	100.468	
	Pb	206		103.187
	Pb	207		103.432
>	Sc	45	108.092	
	Tl	47		112.329

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 21:21:06
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.137

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217516.176	ug/L	206128.037
	23	Na	4148.099309	2.570	13150481.523	ug/L	24559.004
	24	Mg	8314.460058	4.668	17669863.337	ug/L	8895.527
	27	Al	4101.264030	6.373	13185238.894	ug/L	13997.999
	39	K	4127.847407	6.190	23248802.110	ug/L	660038.170
	44	Ca	7967.187327	4.751	1693471.902	ug/L	72272.079
	57	Fe	8076.283094	4.780	1688200.940	ug/L	11492.062
	9	Be	1034.769629	3.203	338953.615	ug/L	82.001
	51	V	1018.273985	3.263	6588420.836	ug/L	-29632.556
	52	Cr	1002.371126	2.080	6170922.626	ug/L	26744.960
	55	Mn	1023.344795	2.394	9933300.944	ug/L	4686.817
	59	Co	1004.754163	3.663	7802547.520	ug/L	2017.830
	60	Ni	967.972707	5.087	1753070.948	ug/L	873.702
>	72	Ge-1			297192.485	ug/L	299297.540
	65	Cu	1015.366806	1.648	2140709.404	ug/L	991.378
	66	Zn	991.844978	1.931	1194246.037	ug/L	6028.333
>	197	Au-1			815318.446	ug/L	830146.103
	205	Tl	1009.381861	0.678	18627821.601	ug/L	17458.863
	208	Pb	999.500180	1.094	26309405.633	ug/L	7584.530
>	197	Au-2			815318.446	ug/L	830146.103
	206	Pb	991.400377	1.708	6518513.936	ug/L	1886.810
	207	Pb	1011.612133	0.215	5851827.275	ug/L	1691.784
>	45	Sc			217516.176	ug/L	206128.037
	47	Ti	981.688189	3.584	558042.956	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.525	
	Na	23		103.702
	Mg	24		103.931
	Al	27		102.532
	K	39		103.196
	Ca	44		99.590
	Fe	57		100.954
	Be	9		103.477
	V	51		101.827
	Cr	52		100.237
	Mn	55		102.334
	Co	59		100.475
	Ni	60		96.797
>	Ge-1	72	99.297	
	Cu	65		101.537
	Zn	66		99.184
>	Au-1	197	98.214	
	Tl	205		100.938
	Pb	208		99.950
>	Au-2	197	98.214	
	Pb	206		99.140
	Pb	207		101.161
>	Sc	45	105.525	
	Ti	47		98.169

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 21:25:26
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.138

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 45	Sc-1			205874.260	ug/L	206128.037
23	Na	1.459934	40.710	28917.638	ug/L	24559.004
24	Mg	3.422915	30.985	15796.020	ug/L	8895.527
27	Al	1.250780	54.489	17810.740	ug/L	13997.999
39	K	0.565708	432.540	661987.444	ug/L	660038.170
44	Ca	-0.874002	1050.528	71991.663	ug/L	72272.079
57	Fe	2.786566	14.805	12026.666	ug/L	11492.062
9	Be	0.406215	17.349	208.004	ug/L	82.001
51	V	0.057975	2103.111	-29186.668	ug/L	-29632.556
52	Cr	0.105105	192.160	27307.024	ug/L	26744.960
55	Mn	0.421098	19.682	8558.001	ug/L	4686.817
59	Co	0.415210	20.034	5075.964	ug/L	2017.830
60	Ni	0.396165	32.654	1554.435	ug/L	873.702
> 72	Ge-1			292708.444	ug/L	299297.540
65	Cu	0.389170	35.014	1776.130	ug/L	991.378
66	Zn	0.422814	19.497	6393.828	ug/L	6028.333
> 197	Au-1			812350.876	ug/L	830146.103
205	Tl	1.922271	34.933	52176.009	ug/L	17458.863
208	Pb	0.449124	31.019	19145.075	ug/L	7584.530
> 197	Au-2			812350.876	ug/L	830146.103
206	Pb	0.418951	29.307	4578.458	ug/L	1886.810
207	Pb	0.442722	30.795	4195.003	ug/L	1691.784
> 45	Sc			205874.260	ug/L	206128.037
47	Ti	0.350146	73.010	6945.424	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
> Sc-1	45	99.877	
Na	23		145.993
Mg	24		342.291
Al	27		125.078
K	39		56.571
Ca	44		-87.400
Fe	57		278.657
Be	9		40.622
V	51		5.797
Cr	52		10.511
Mn	55		42.110
Co	59		41.521
Ni	60		39.618
> Ge-1	72	97.798	
Cu	65		38.917
Zn	66		42.281
> Au-1	197	97.856	
Tl	205		192.227
Pb	208		44.912
> Au-2	197	97.856	
Pb	206		41.895
Pb	207		44.272
> Sc	45	99.877	
Ti	47		35.015

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE
Sample Date/Time: Tuesday, April 13, 2010 21:29:45
Autosampler Position: 242
Dataset File: D:\Elandata\Dataset\041310M1\TRACE.139

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212792.530	ug/L	206128.037
	23	Na	64.646156	2.146	225515.724	ug/L	24559.004
	24	Mg	61.365331	0.522	136827.001	ug/L	8895.527
	27	Al	34.907578	1.536	124269.399	ug/L	13997.999
	39	K	111.812722	5.463	1279439.872	ug/L	660038.170
	44	Ca	113.159059	7.184	97085.418	ug/L	72272.079
	57	Fe	53.652990	4.059	22762.716	ug/L	11492.062
	9	Be	0.517135	5.331	250.338	ug/L	82.001
	51	V	12.482533	11.601	48780.804	ug/L	-29632.556
	52	Cr	11.875663	3.449	98810.549	ug/L	26744.960
	55	Mn	2.329311	3.261	26949.667	ug/L	4686.817
	59	Co	2.432719	5.438	20563.006	ug/L	2017.830
	60	Ni	5.802513	4.169	11185.826	ug/L	873.702
>	72	Ge-1			309562.700	ug/L	299297.540
	65	Cu	1.077238	5.623	3390.770	ug/L	991.378
	66	Zn	7.522547	3.851	15621.696	ug/L	6028.333
>	197	Au-1			835626.644	ug/L	830146.103
	205	Tl	2.341755	2.903	61828.516	ug/L	17458.863
	208	Pb	3.278587	3.195	96055.449	ug/L	7584.530
>	197	Au-2			835626.644	ug/L	830146.103
	206	Pb	3.227390	4.132	23637.791	ug/L	1886.810
	207	Pb	3.274829	4.257	21109.474	ug/L	1691.784
>	45	Sc			212792.530	ug/L	206128.037
	47	Tl	4.593231	5.214	9510.260	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.233	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	103.430	
	Cu	65		
	Zn	66		
>	Au-1	197	100.660	
	Tl	205		
	Pb	208		
>	Au-2	197	100.660	
	Pb	206		
	Pb	207		
>	Sc	45	103.233	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: 1PPM
Sample Date/Time: Tuesday, April 13, 2010 21:33:35
Autosampler Position: 243
Dataset File: D:\Elandata\Dataset\041310M1\1PPM.140

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			206592.766	ug/L	206128.037
	23	**Na**	**2.322621**	27.567	31547.125	ug/L	24559.004
	24	**Mg**	**4.252243**	11.809	17478.534	ug/L	8895.527
	27	**Al**	**10.220483**	5.068	45202.535	ug/L	13997.999
	39	**K**	**-5.424285**	92.112	627327.315	ug/L	660038.170
	44	**Ca**	**247.497683**	9.736	120075.728	ug/L	72272.079
	57	**Fe**	**-4.321616**	39.016	10656.219	ug/L	11492.062
	9	**Be**	**1058.070065**	5.180	328953.776	ug/L	82.001
	51	**V**	**1021.907547**	2.554	6280246.190	ug/L	-29632.556
	52	**Cr**	**998.349605**	4.871	5832867.209	ug/L	26744.960
	55	**Mn**	**1003.013553**	2.562	9245605.142	ug/L	4686.817
	59	**Co**	**1011.354794**	5.459	7454938.735	ug/L	2017.830
	60	**Ni**	**987.935851**	3.798	1699486.071	ug/L	873.702
>	72	**Ge-1**			294825.214	ug/L	299297.540
	65	**Cu**	**963.957428**	3.117	2016388.542	ug/L	991.378
	66	**Zn**	**955.015582**	0.128	1140929.675	ug/L	6028.333
>	197	**Au-1**			817731.288	ug/L	830146.103
	205	**Tl**	**979.093089**	2.209	18116831.615	ug/L	17458.863
	208	**Pb**	**964.430850**	1.490	25457968.613	ug/L	7584.530
>	197	**Au-2**			817731.288	ug/L	830146.103
	206	**Pb**	**963.285110**	2.401	6350349.681	ug/L	1886.810
	207	**Pb**	**969.050302**	3.279	5619999.449	ug/L	1691.784
>	45	**Sc**			206592.766	ug/L	206128.037
	47	**Ti**	**990.423542**	3.807	534580.820	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**100.225**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	**Ge-1**	72	**98.506**	
	Cu	65		
	Zn	66		
>	**Au-1**	197	**98.505**	
	Tl	205		
	Pb	208		
>	**Au-2**	197	**98.505**	
	Pb	206		
	Pb	207		
>	**Sc**	45	**100.225**	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Mn	55	H
Co	59	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 2PPM
Sample Date/Time: Tuesday, April 13, 2010 21:37:25
Autosampler Position: 244
Dataset File: D:\Elandata\Dataset\041310M1\2PPM.141

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			206676.808	ug/L	206128.037
|	23	Na	15.737472	3.723	71947.140	ug/L	24559.004
|	24	Mg	25.801082	3.466	61030.394	ug/L	8895.527
|	27	Al	19.326512	4.865	73059.850	ug/L	13997.999
|	39	K	-10.283523	34.778	608214.376	ug/L	660038.170
|	44	Ca	480.864265	5.204	165308.550	ug/L	72272.079
|	57	Fe	-9.565125	8.495	9635.754	ug/L	11492.062
|	9	Be	2096.341002	2.760	652788.018	ug/L	82.001
|	51	V	2021.970157	1.030	12468184.089	ug/L	-29632.556
|	52	Cr	1966.776063	1.617	11484483.370	ug/L	26744.960
|	55	Mn	1999.626048	0.329	18447490.550	ug/L	4686.817
|	59	Co	1954.834284	1.922	14431400.178	ug/L	2017.830
⌊	60	Ni	1971.848301	2.104	3395500.832	ug/L	873.702
⌈>	72	Ge-1			292893.130	ug/L	299297.540
|	65	Cu	1893.779937	2.090	3933311.510	ug/L	991.378
⌊	66	Zn	1875.407081	2.528	2219427.595	ug/L	6028.333
⌈>	197	Au-1			809191.280	ug/L	830146.103
|	205	Tl	2003.095964	0.634	36667076.438	ug/L	17458.863
⌊	208	Pb	2008.885338	2.483	52454292.082	ug/L	7584.530
⌈>	197	Au-2			809191.280	ug/L	830146.103
|	206	Pb	1976.582488	1.228	12893478.227	ug/L	1886.810
⌊	207	Pb	2029.845072	1.855	11648416.686	ug/L	1691.784
⌈>	45	Sc			206676.808	ug/L	206128.037
⌊	47	Ti	1911.083804	0.425	1026598.662	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	100.266	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	97.860	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	97.476	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	97.476	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	100.266	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Cu	65	H
Zn	66	H

Pb	208	H
Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 20 PPM
Sample Date/Time: Tuesday, April 13, 2010 21:41:15
Autosampler Position: 245
Dataset File: D:\Elandata\Dataset\041310M1\20 PPM.142

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			223453.953	ug/L	206128.037
	23	Na	20757.432386	6.112	67400946.475	ug/L	24559.004
	24	Mg	20290.959422	5.690	44253525.032	ug/L	8895.527
	27	Al	20500.532780	4.170	67643711.040	ug/L	13997.999
	39	K	20500.194698	5.797	115738007.677	ug/L	660038.170
	44	Ca	18761.891082	2.948	3992742.673	ug/L	72272.079
	57	Fe	19352.645008	3.739	4138311.262	ug/L	11492.062
	9	Be	1.723112	23.405	665.022	ug/L	82.001
	51	V	2.062502	118.695	-18664.346	ug/L	-29632.556
	52	Cr	1.880119	31.769	40741.223	ug/L	26744.960
	55	Mn	1.956240	17.703	24487.337	ug/L	4686.817
	59	Co	1.920888	18.717	17432.565	ug/L	2017.830
	60	Ni	2.624901	20.299	5804.249	ug/L	873.702
>	72	Ge-1			317404.898	ug/L	299297.540
	65	Cu	2.375126	11.161	6389.498	ug/L	991.378
	66	Zn	3.327432	9.087	10646.741	ug/L	6028.333
>	197	Au-1			811688.823	ug/L	830146.103
	205	Tl	3.660394	15.145	84182.449	ug/L	17458.863
	208	Pb	2.034233	12.158	60694.898	ug/L	7584.530
>	197	Au-2			811688.823	ug/L	830146.103
	206	Pb	1.988826	9.522	14857.238	ug/L	1886.810
	207	Pb	2.036480	8.160	13374.743	ug/L	1691.784
>	45	Sc			223453.953	ug/L	206128.037
	47	Ti	446.180724	3.731	264550.269	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	108.405	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	106.050	
	Cu	65		
	Zn	66		
>	Au-1	197	97.777	
	Tl	205		
	Pb	208		
>	Au-2	197	97.777	
	Pb	206		
	Pb	207		
>	Sc	45	108.405	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Al	27	H
K	39	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 50 PPM
Sample Date/Time: Tuesday, April 13, 2010 21:45:04
Autosampler Position: 246
Dataset File: D:\Elandata\Dataset\041310M1\50 PPM.143

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			225610.801	ug/L	206128.037
	23	Na	52766.508928	1.888	173263979.975	ug/L	24559.004
	24	Mg	51754.644733	2.749	114143455.616	ug/L	8895.527
	27	Al	52942.372957	1.754	176579028.350	ug/L	13997.999
	39	K	53458.401445	1.607	304070313.044	ug/L	660038.170
	44	Ca	48189.254785	1.816	10235803.800	ug/L	72272.079
	57	Fe	50077.951244	1.978	10803585.794	ug/L	11492.062
	9	Be	0.225260	20.466	166.336	ug/L	82.001
	51	V	0.702664	53.080	-27695.213	ug/L	-29632.556
	52	Cr	1.434299	3.495	38394.246	ug/L	26744.960
	55	Mn	0.462581	11.281	9788.124	ug/L	4686.817
	59	Co	0.505863	9.194	6285.449	ug/L	2017.830
	60	Ni	7.486938	1.977	15028.386	ug/L	873.702
>	72	Ge-1			346762.407	ug/L	299297.540
	65	Cu	1.637836	3.195	5174.989	ug/L	991.378
	66	Zn	3.835288	1.569	12345.122	ug/L	6028.333
>	197	Au-1			810623.890	ug/L	830146.103
	205	Tl	0.809879	28.059	31877.208	ug/L	17458.863
	208	Pb	0.486773	5.419	20144.476	ug/L	7584.530
>	197	Au-2			810623.890	ug/L	830146.103
	206	Pb	0.473707	1.501	4937.903	ug/L	1886.810
	207	Pb	0.485588	4.295	4444.403	ug/L	1691.784
>	45	Sc			225610.801	ug/L	206128.037
	47	Ti	1134.228006	0.929	668123.995	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.452	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	115.859	
	Cu	65		
	Zn	66		
>	Au-1	197	97.648	
	Tl	205		
	Pb	208		
>	Au-2	197	97.648	
	Pb	206		
	Pb	207		
>	Sc	45	109.452	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: 200 PPM
Sample Date/Time: Tuesday, April 13, 2010 21:48:54
Autosampler Position: 247
Dataset File: D:\Elandata\Dataset\041310M1\200 PPM.144

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			211619.117	ug/L	206128.037
	23	Na	S	S	S	ug/L	24559.004
	24	Mg	190006.688575	0.995	393019034.849	ug/L	8895.527
	27	Al	S	S	S	ug/L	13997.999
	39	K	S	S	S	ug/L	660038.170
	44	Ca	186333.300127	1.578	36908482.788	ug/L	72272.079
	57	Fe	202059.830054	2.849	40849741.227	ug/L	11492.062
	9	Be	-0.176344	8.297	28.000	ug/L	82.001
	51	V	-0.497351	393.807	-33480.446	ug/L	-29632.556
	52	Cr	5.428386	5.365	59827.993	ug/L	26744.960
	55	Mn	0.477166	6.504	9317.466	ug/L	4686.817
	59	Co	0.579297	7.282	6452.191	ug/L	2017.830
	60	Ni	6.235031	2.145	11888.064	ug/L	873.702
>	72	Ge-1			389884.977	ug/L	299297.540
	65	Cu	3.907010	3.086	12091.238	ug/L	991.378
	66	Zn	8.634093	2.842	21424.943	ug/L	6028.333
>	197	Au-1			727833.354	ug/L	830146.103
	205	Tl	0.021859	516.772	15659.139	ug/L	17458.863
	208	Pb	0.225574	3.653	11948.756	ug/L	7584.530
>	197	Au-2			727833.354	ug/L	830146.103
	206	Pb	0.232860	3.348	3020.349	ug/L	1886.810
	207	Pb	0.207681	5.375	2555.588	ug/L	1691.784
>	45	Sc			211619.117	ug/L	206128.037
	47	Ti	4417.727246	3.244	2420366.339	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.664	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	130.267	
	Cu	65		
	Zn	66		
>	Au-1	197	87.675	
	Tl	205		
	Pb	208		
>	Au-2	197	87.675	
	Pb	206		
	Pb	207		
>	Sc	45	102.664	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Na	23	H
Mg	24	H
Al	27	H
K	39	H
Fe	57	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: TRACE ZN 10
Sample Date/Time: Tuesday, April 13, 2010 21:52:44
Autosampler Position: 191
Dataset File: D:\Elandata\Dataset\041310M1\TRACE ZN 10.145

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			228848.491	ug/L	206128.037
	23	Na	235.806455	4.182	812426.587	ug/L	24559.004
	24	Mg	231.567498	4.320	527756.502	ug/L	8895.527
	27	Al	206.354311	5.705	713434.994	ug/L	13997.999
	39	K	263.228094	5.623	2247485.586	ug/L	660038.170
	44	Ca	313.282710	6.726	147192.847	ug/L	72272.079
	57	Fe	258.211810	2.966	69197.459	ug/L	11492.062
	9	Be	0.426318	2.453	238.004	ug/L	82.001
	51	V	12.343558	15.729	51525.139	ug/L	-29632.556
	52	Cr	11.370526	1.321	103033.600	ug/L	26744.960
	55	Mn	2.300209	2.572	28698.434	ug/L	4686.817
	59	Co	2.451165	4.462	22272.251	ug/L	2017.830
	60	Ni	5.695166	0.799	11827.679	ug/L	873.702
>	72	Ge-1			333272.296	ug/L	299297.540
	65	Cu	1.171558	4.474	3871.230	ug/L	991.378
	66	Zn	6.861691	8.647	15920.364	ug/L	6028.333
>	197	Au-1			841209.434	ug/L	830146.103
	205	Tl	1.770016	1.837	51364.385	ug/L	17458.863
	208	Pb	3.105390	1.940	91987.965	ug/L	7584.530
>	197	Au-2			841209.434	ug/L	830146.103
	206	Pb	3.099507	2.726	22927.284	ug/L	1886.810
	207	Pb	3.101163	1.991	20215.163	ug/L	1691.784
>	45	Sc			228848.491	ug/L	206128.037
	47	Ti	10.952741	5.834	13988.991	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.022	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	111.351	
	Cu	65		
	Zn	66		
>	Au-1	197	101.333	
	Tl	205		
	Pb	208		
>	Au-2	197	101.333	
	Pb	206		
	Pb	207		
>	Sc	45	111.022	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNG4B
Sample Date/Time: Tuesday, April 13, 2010 21:56:32
Autosampler Position: 11
Dataset File: D:\Elandata\Dataset\041310M1\LXNG4B.146

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			228818.547	ug/L	206128.037
	23	Na	16.150950	3.172	81048.542	ug/L	24559.004
	24	Mg	1.529082	22.706	13302.680	ug/L	8895.527
	27	Al	2.935510	12.798	25481.359	ug/L	13997.999
	39	K	-1.835542	72.875	722079.629	ug/L	660038.170
	44	Ca	77.819257	5.489	96853.189	ug/L	72272.079
	57	Fe	11.680580	16.694	15306.522	ug/L	11492.062
	9	Be	-0.258220	1.157	2.000	ug/L	82.001
	51	V	-2.196928	55.836	-47993.523	ug/L	-29632.556
	52	Cr	-0.056428	301.968	29326.399	ug/L	26744.960
	55	Mn	-0.195727	3.871	3204.058	ug/L	4686.817
	59	Co	-0.257071	0.636	139.002	ug/L	2017.830
	60	Ni	-0.176727	8.484	632.687	ug/L	873.702
>	72	Ge-1			330687.072	ug/L	299297.540
	65	Cu	-0.193976	6.778	640.021	ug/L	991.378
	66	Zn	3.815621	0.412	11746.615	ug/L	6028.333
>	197	Au-1			841575.822	ug/L	830146.103
	205	Tl	-0.461527	7.171	8916.548	ug/L	17458.863
	208	Pb	-0.222832	1.414	1636.719	ug/L	7584.530
>	197	Au-2			841575.822	ug/L	830146.103
	206	Pb	-0.222255	1.010	405.010	ug/L	1886.810
	207	Pb	-0.219867	1.281	402.676	ug/L	1691.784
>	45	Sc			228818.547	ug/L	206128.037
	47	Ti	0.120230	322.150	7584.089	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.008	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	110.488	
	Cu	65		
	Zn	66		
>	Au-1	197	101.377	
	Tl	205		
	Pb	208		
>	Au-2	197	101.377	
	Pb	206		
	Pb	207		
>	Sc	45	111.008	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 22:00:21
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.147

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			218843.166	ug/L	206128.037
	23	Na	3905.825498	3.298	12458449.846	ug/L	24559.004
	24	Mg	8050.934843	1.809	17226992.945	ug/L	8895.527
	27	Al	3983.984226	1.334	12899747.293	ug/L	13997.999
	39	K	4015.408512	1.141	22801173.979	ug/L	660038.170
	44	Ca	8064.299112	1.753	1725631.291	ug/L	72272.079
	57	Fe	7835.674181	1.607	1649486.846	ug/L	11492.062
	9	Be	964.226673	2.997	317823.049	ug/L	82.001
	51	V	1006.568705	2.782	6557037.995	ug/L	-29632.556
	52	Cr	978.550190	3.890	6060859.572	ug/L	26744.960
	55	Mn	1004.973969	1.367	9817409.174	ug/L	4686.817
	59	Co	988.261272	1.746	7724801.919	ug/L	2017.830
	60	Ni	978.961477	1.462	1785324.629	ug/L	873.702
>	72	Ge-1			308833.035	ug/L	299297.540
	65	Cu	960.276528	3.623	2103654.959	ug/L	991.378
	66	Zn	961.706320	3.590	1202624.994	ug/L	6028.333
>	197	Au-1			813746.299	ug/L	830146.103
	205	Tl	987.863283	0.944	18194825.807	ug/L	17458.863
	208	Pb	967.517908	2.309	25418122.750	ug/L	7584.530
>	197	Au-2			813746.299	ug/L	830146.103
	206	Pb	966.820522	1.674	6343944.859	ug/L	1886.810
	207	Pb	973.242263	2.266	5618671.374	ug/L	1691.784
>	45	Sc			218843.166	ug/L	206128.037
	47	Ti	980.598743	2.377	561056.749	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	106.169	
	Na	23		97.646
	Mg	24		100.637
	Al	27		99.600
	K	39		100.385
	Ca	44		100.804
	Fe	57		97.946
	Be	9		96.423
	V	51		100.657
	Cr	52		97.855
	Mn	55		100.497
	Co	59		98.826
	Ni	60		97.896
>	Ge-1	72	103.186	
	Cu	65		96.028
	Zn	66		96.171
>	Au-1	197	98.024	
	Tl	205		98.786
	Pb	208		96.752
>	Au-2	197	98.024	
	Pb	206		96.682
	Pb	207		97.324
>	Sc	45	106.169	
	Ti	47		98.060

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 22:04:41
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.148

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			205204.032	ug/L	206128.037
|	23	Na	2.045952	35.320	30565.425	ug/L	24559.004
|	24	Mg	3.705661	35.885	16296.627	ug/L	8895.527
|	27	Al	1.636977	40.321	18906.125	ug/L	13997.999
|	39	K	0.343994	186.036	658857.229	ug/L	660038.170
|	44	Ca	4.140177	81.750	72743.484	ug/L	72272.079
|	57	Fe	3.798812	45.147	12186.345	ug/L	11492.062
|	9	Be	0.351392	27.535	190.337	ug/L	82.001
|	51	V	1.244411	68.340	-21857.806	ug/L	-29632.556
|	52	Cr	0.122669	127.062	27338.099	ug/L	26744.960
|	55	Mn	0.410196	22.665	8424.920	ug/L	4686.817
|	59	Co	0.436258	24.165	5209.016	ug/L	2017.830
⌊	60	Ni	0.394976	23.066	1545.433	ug/L	873.702
⌈>	72	Ge-1			299192.269	ug/L	299297.540
|	65	Cu	0.386990	20.713	1814.134	ug/L	991.378
⌊	66	Zn	0.357544	11.223	6456.857	ug/L	6028.333
⌈>	197	Au-1			812588.318	ug/L	830146.103
|	205	Tl	1.776609	32.598	49634.506	ug/L	17458.863
⌊	208	Pb	0.433125	13.462	18797.376	ug/L	7584.530
⌈>	197	Au-2			812588.318	ug/L	830146.103
|	206	Pb	0.429972	13.102	4666.813	ug/L	1886.810
⌊	207	Pb	0.442245	13.719	4207.999	ug/L	1691.784
⌈>	45	Sc			205204.032	ug/L	206128.037
⌊	47	Ti	0.444207	47.679	6974.439	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	99.552	
|	Na	23		204.595
|	Mg	24		370.566
|	Al	27		163.698
|	K	39		34.399
|	Ca	44		414.018
|	Fe	57		379.881
|	Be	9		35.139
|	V	51		124.441
|	Cr	52		12.267
|	Mn	55		41.020
|	Co	59		43.626
⌊	Ni	60		39.498
⌈>	Ge-1	72	99.965	
|	Cu	65		38.699
⌊	Zn	66		35.754
⌈>	Au-1	197	97.885	
|	Tl	205		177.861
⌊	Pb	208		43.313
⌈>	Au-2	197	97.885	
|	Pb	206		42.997
⌊	Pb	207		44.224
⌈>	Sc	45	99.552	
⌊	Ti	47		44.421

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	Q
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNG4C
Sample Date/Time: Tuesday, April 13, 2010 22:09:00
Autosampler Position: 12
Dataset File: D:\Elandata\Dataset\041310M1\LXNG4C.149

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212457.846	ug/L	206128.037
	23	Na	10948.774379	3.208	33862389.226	ug/L	24559.004
	24	Mg	10628.945704	2.399	22075756.709	ug/L	8895.527
	27	Al	10728.953661	2.084	33716214.426	ug/L	13997.999
	39	K	11007.845012	1.641	59489698.931	ug/L	660038.170
	44	Ca	10403.803526	0.771	2139630.694	ug/L	72272.079
	57	Fe	10538.455872	4.783	2148756.406	ug/L	11492.062
	9	Be	1027.609934	2.609	328887.378	ug/L	82.001
	51	V	1078.956522	1.906	6826733.025	ug/L	-29632.556
	52	Cr	1051.406287	1.437	6325127.950	ug/L	26744.960
	55	Mn	1064.187562	3.913	10088845.825	ug/L	4686.817
	59	Co	1055.845626	2.239	8012030.893	ug/L	2017.830
	60	Ni	1001.684854	2.204	1773663.402	ug/L	873.702
>	72	Ge-1			306466.126	ug/L	299297.540
	65	Cu	923.825919	3.443	2008083.981	ug/L	991.378
	66	Zn	933.941206	1.975	1159834.109	ug/L	6028.333
>	197	Au-1			803750.891	ug/L	830146.103
	205	Tl	1041.197178	2.456	18940602.048	ug/L	17458.863
	208	Pb	1019.335783	2.388	26450872.817	ug/L	7584.530
>	197	Au-2			803750.891	ug/L	830146.103
	206	Pb	991.504203	2.496	6425870.068	ug/L	1886.810
	207	Pb	1047.532036	3.648	5973431.141	ug/L	1691.784
>	45	Sc			212457.846	ug/L	206128.037
	47	Ti	1050.499187	1.827	583085.746	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.071	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	102.395	
	Cu	65		
	Zn	66		
>	Au-1	197	96.820	
	Tl	205		
	Pb	208		
>	Au-2	197	96.820	
	Pb	206		
	Pb	207		
>	Sc	45	103.071	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Tl	205	H
Pb	208	H

Ti 47 H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEE
Sample Date/Time: Tuesday, April 13, 2010 22:12:48
Autosampler Position: 13
Dataset File: D:\Elandata\Dataset\041310M1\LXKEE.150

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			203553.016	ug/L	206128.037
	23	Na	67.611946	4.122	224421.295	ug/L	24559.004
	24	Mg	6.821191	5.281	22362.071	ug/L	8895.527
	27	Al	5.986429	5.435	31825.070	ug/L	13997.999
	39	K	-4.956617	14.784	626364.696	ug/L	660038.170
	44	Ca	61.080720	15.582	82959.343	ug/L	72272.079
	57	Fe	10.423003	8.119	13376.929	ug/L	11492.062
	9	Be	-0.210011	10.809	16.667	ug/L	82.001
	51	V	1.156983	60.990	-22220.433	ug/L	-29632.556
	52	Cr	-0.606743	19.747	22920.269	ug/L	26744.960
	55	Mn	0.074512	24.913	5307.374	ug/L	4686.817
	59	Co	-0.212857	9.753	447.012	ug/L	2017.830
	60	Ni	0.296964	10.805	1366.079	ug/L	873.702
>	72	Ge-1			308648.808	ug/L	299297.540
	65	Cu	9.938944	8.428	22789.163	ug/L	991.378
	66	Zn	9.408085	2.709	17919.746	ug/L	6028.333
>	197	Au-1			825325.593	ug/L	830146.103
	205	Tl	1.366522	28.628	42871.271	ug/L	17458.863
	208	Pb	-0.127770	33.443	4139.622	ug/L	7584.530
>	197	Au-2			825325.593	ug/L	830146.103
	206	Pb	-0.138627	28.502	954.043	ug/L	1886.810
	207	Pb	-0.119295	39.074	984.379	ug/L	1691.784
>	45	Sc			203553.016	ug/L	206128.037
	47	Ti	1.945042	9.817	7705.488	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	98.751	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	103.124	
	Cu	65		
	Zn	66		
>	Au-1	197	99.419	
	Tl	205		
	Pb	208		
>	Au-2	197	99.419	
	Pb	206		
	Pb	207		
>	Sc	45	98.751	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEEV
Sample Date/Time: Tuesday, April 13, 2010 22:16:37
Autosampler Position: 14
Dataset File: D:\Elandata\Dataset\041310M1\LXKEEV.151

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			198760.450	ug/L	206128.037
	23	Na	12.527690	3.667	59904.316	ug/L	24559.004
	24	Mg	-1.237203	8.957	6170.061	ug/L	8895.527
	27	Al	-1.077732	11.911	10327.170	ug/L	13997.999
	39	K	-4.692712	70.158	612690.133	ug/L	660038.170
	44	Ca	22.834285	47.694	73892.685	ug/L	72272.079
	57	Fe	1.061526	326.196	11275.556	ug/L	11492.062
	9	Be	-0.210859	7.775	16.000	ug/L	82.001
	51	V	-0.093936	2033.002	-29012.385	ug/L	-29632.556
	52	Cr	-0.400709	77.929	23514.940	ug/L	26744.960
	55	Mn	-0.168912	12.770	3018.016	ug/L	4686.817
	59	Co	-0.224807	2.491	349.008	ug/L	2017.830
	60	Ni	0.150996	25.921	1091.386	ug/L	873.702
>	72	Ge-1			289122.780	ug/L	299297.540
	65	Cu	2.028481	3.540	5116.969	ug/L	991.378
	66	Zn	2.003013	3.349	8157.745	ug/L	6028.333
>	197	Au-1			820000.038	ug/L	830146.103
	205	Tl	0.036666	207.638	17938.834	ug/L	17458.863
	208	Pb	-0.207082	1.881	2011.409	ug/L	7584.530
>	197	Au-2			820000.038	ug/L	830146.103
	206	Pb	-0.211893	0.957	463.012	ug/L	1886.810
	207	Pb	-0.204687	4.509	480.680	ug/L	1691.784
>	45	Sc			198760.450	ug/L	206128.037
	47	Ti	1.195298	46.282	7135.520	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.426	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.600	
	Cu	65		
	Zn	66		
>	Au-1	197	98.778	
	Tl	205		
	Pb	208		
>	Au-2	197	98.778	
	Pb	206		
	Pb	207		
>	Sc	45	96.426	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEES
Sample Date/Time: Tuesday, April 13, 2010 22:20:25
Autosampler Position: 15
Dataset File: D:\Elandata\Dataset\041310M1\LXKEES.152

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			196806.100	ug/L	206128.037
23	Na	10357.697525	0.808	29686116.231	ug/L	24559.004
24	Mg	10150.040889	0.475	19534115.180	ug/L	8895.527
27	Al	10198.211988	2.352	29676133.639	ug/L	13997.999
39	K	10498.232603	1.563	52591661.879	ug/L	660038.170
44	Ca	10223.634557	2.303	1948380.579	ug/L	72272.079
57	Fe	10520.311162	1.468	1988241.575	ug/L	11492.062
9	Be	1060.232394	0.680	314450.120	ug/L	82.001
51	V	1047.837858	2.166	6138589.050	ug/L	-29632.556
52	Cr	1038.941848	1.248	5788757.196	ug/L	26744.960
55	Mn	1020.411248	2.513	8965158.126	ug/L	4686.817
59	Co	1065.845016	2.044	7495261.940	ug/L	2017.830
60	Ni	1020.709755	3.137	1674061.928	ug/L	873.702
72	Ge-1			292463.054	ug/L	299297.540
65	Cu	922.755534	2.329	1914187.268	ug/L	991.378
66	Zn	938.413059	2.628	1112115.897	ug/L	6028.333
197	Au-1			790720.026	ug/L	830146.103
205	Tl	1031.720677	2.145	18463379.018	ug/L	17458.863
208	Pb	1004.511317	4.063	25631473.170	ug/L	7584.530
197	Au-2			790720.026	ug/L	830146.103
206	Pb	980.788030	4.336	6250308.872	ug/L	1886.810
207	Pb	1036.870838	3.999	5814181.689	ug/L	1691.784
45	Sc			196806.100	ug/L	206128.037
47	Ti	1024.728488	2.641	527078.519	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	95.478	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	97.716	
Cu	65		
Zn	66		
Au-1	197	95.251	
Tl	205		
Pb	208		
Au-2	197	95.251	
Pb	206		
Pb	207		
Sc	45	95.478	
Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Tl	205	H
Pb	208	H

Ti 47 H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXKEED
Sample Date/Time: Tuesday, April 13, 2010 22:24:14
Autosampler Position: 16
Dataset File: D:\Elandata\Dataset\041310M1\LXKEED.153

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			196472.669	ug/L	206128.037
	23	Na	10358.870021	2.736	29633110.485	ug/L	24559.004
	24	Mg	10152.479094	2.265	19501737.581	ug/L	8895.527
	27	Al	10300.095629	3.377	29916259.811	ug/L	13997.999
	39	K	10797.101432	2.028	53978858.006	ug/L	660038.170
	44	Ca	10422.373114	1.482	1981543.154	ug/L	72272.079
	57	Fe	10623.148184	4.504	2003695.721	ug/L	11492.062
	9	Be	1063.747668	3.553	314829.651	ug/L	82.001
	51	V	1042.435798	1.639	6097686.287	ug/L	-29632.556
	52	Cr	1028.071066	0.142	5718702.827	ug/L	26744.960
	55	Mn	1051.455438	3.528	9220267.302	ug/L	4686.817
	59	Co	1073.049581	4.860	7529456.330	ug/L	2017.830
	60	Ni	1028.330575	3.072	1683481.795	ug/L	873.702
>	72	Ge-1			291403.553	ug/L	299297.540
	65	Cu	952.463574	1.905	1968327.694	ug/L	991.378
	66	Zn	964.000366	0.597	1138223.310	ug/L	6028.333
>	197	Au-1			775264.295	ug/L	830146.103
	205	Tl	1046.543151	0.952	18363535.985	ug/L	17458.863
	208	Pb	1008.460847	1.715	25238292.326	ug/L	7584.530
>	197	Au-2			775264.295	ug/L	830146.103
	206	Pb	975.824221	2.428	6100373.243	ug/L	1886.810
	207	Pb	1035.155637	2.087	5693263.890	ug/L	1691.784
>	45	Sc			196472.669	ug/L	206128.037
	47	Tl	1045.789788	2.459	536845.538	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.316	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.362	
	Cu	65		
	Zn	66		
>	Au-1	197	93.389	
	Tl	205		
	Pb	208		
>	Au-2	197	93.389	
	Pb	206		
	Pb	207		
>	Sc	45	95.316	
	Tl	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Tl	205	H
Pb	208	H

Ti 47 H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXMEQ
Sample Date/Time: Tuesday, April 13, 2010 22:28:03
Autosampler Position: 17
Dataset File: D:\Elandata\Dataset\041310M1\LXMEQ.154

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			225228.641	ug/L	206128.037
	23	Na	12044.424314	5.136	39463812.792	ug/L	24559.004
	24	Mg	2772.101151	4.775	6106632.103	ug/L	8895.527
	27	Al	40.837541	3.719	151168.656	ug/L	13997.999
	39	K	192.880178	7.260	1812194.469	ug/L	660038.170
	44	Ca	6886.946220	2.901	1527153.224	ug/L	72272.079
	57	Fe	20.452043	26.115	16933.193	ug/L	11492.062
	9	Be	-0.175068	12.796	30.334	ug/L	82.001
	51	V	25.440085	3.506	139119.815	ug/L	-29632.556
	52	Cr	-0.299254	118.663	27277.674	ug/L	26744.960
	55	Mn	0.784898	6.084	13001.044	ug/L	4686.817
	59	Co	-0.145666	19.200	1037.050	ug/L	2017.830
	60	Ni	1.217744	6.507	3237.066	ug/L	873.702
>	72	Ge-1			296512.551	ug/L	299297.540
	65	Cu	0.651344	13.973	2351.218	ug/L	991.378
	66	Zn	12.451716	1.008	20855.421	ug/L	6028.333
>	197	Au-1			796158.850	ug/L	830146.103
	205	Tl	1.771154	31.431	48718.749	ug/L	17458.863
	208	Pb	0.021098	170.191	7824.585	ug/L	7584.530
>	197	Au-2			796158.850	ug/L	830146.103
	206	Pb	0.022131	146.274	1953.488	ug/L	1886.810
	207	Pb	0.027763	136.371	1781.130	ug/L	1691.784
>	45	Sc			225228.641	ug/L	206128.037
	47	Tl	2.838517	14.510	9041.951	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.266	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	99.069	
	Cu	65		
	Zn	66		
>	Au-1	197	95.906	
	Tl	205		
	Pb	208		
>	Au-2	197	95.906	
	Pb	206		
	Pb	207		
>	Sc	45	109.266	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXME1
Sample Date/Time: Tuesday, April 13, 2010 22:31:51
Autosampler Position: 18
Dataset File: D:\Elandata\Dataset\041310M1\LXME1.155

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			215014.202	ug/L	206128.037
	23	**Na**	**804.795818**	0.709	2543887.558	ug/L	24559.004
	24	**Mg**	**35.087652**	1.685	83030.169	ug/L	8895.527
	27	**Al**	**2.952912**	3.179	23987.700	ug/L	13997.999
	39	**K**	**4.992775**	16.295	715489.561	ug/L	660038.170
	44	**Ca**	**162.730233**	4.946	108066.634	ug/L	72272.079
	57	**Fe**	**2.249733**	22.345	12449.047	ug/L	11492.062
	9	**Be**	**-0.198215**	5.393	21.334	ug/L	82.001
	51	**V**	**0.885752**	66.632	-25219.636	ug/L	-29632.556
	52	**Cr**	**-0.116095**	138.606	27197.834	ug/L	26744.960
	55	**Mn**	**-0.012585**	95.266	4768.511	ug/L	4686.817
	59	**Co**	**-0.216995**	6.654	438.678	ug/L	2017.830
	60	**Ni**	**0.083611**	39.129	1061.383	ug/L	873.702
>	72	**Ge-1**			298892.785	ug/L	299297.540
	65	**Cu**	**0.877034**	6.029	2846.645	ug/L	991.378
	66	**Zn**	**12.074843**	1.153	20565.337	ug/L	6028.333
>	197	**Au-1**			812019.323	ug/L	830146.103
	205	**Tl**	**0.291991**	42.052	22446.648	ug/L	17458.863
	208	**Pb**	**0.187289**	8.682	12325.538	ug/L	7584.530
>	197	**Au-2**			812019.323	ug/L	830146.103
	206	**Pb**	**0.183527**	7.696	3046.355	ug/L	1886.810
	207	**Pb**	**0.191343**	14.030	2755.294	ug/L	1691.784
>	45	**Sc**			215014.202	ug/L	206128.037
	47	**Ti**	**0.289496**	48.012	7221.230	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**104.311**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	**Ge-1**	72	**99.865**	
	Cu	65		
	Zn	66		
>	**Au-1**	197	**97.816**	
	Tl	205		
	Pb	208		
>	**Au-2**	197	**97.816**	
	Pb	206		
	Pb	207		
>	**Sc**	45	**104.311**	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGB
Sample Date/Time: Tuesday, April 13, 2010 22:35:40
Autosampler Position: 19
Dataset File: D:\Elandata\Dataset\041310M1\LXRAGB.156

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			223140.882	ug/L	206128.037
|	23	Na	14.832372	5.965	74730.129	ug/L	24559.004
|	24	Mg	-2.481743	0.970	4216.331	ug/L	8895.527
|	27	Al	-0.034904	340.167	15040.069	ug/L	13997.999
|	39	K	-12.983644	8.710	641632.741	ug/L	660038.170
|	44	Ca	15.523956	44.788	81463.095	ug/L	72272.079
|	57	Fe	4.604572	63.276	13417.879	ug/L	11492.062
|	9	Be	-0.240274	1.143	8.000	ug/L	82.001
|	51	V	-4.084280	27.271	-59332.937	ug/L	-29632.556
|	52	Cr	2.146058	7.411	42451.437	ug/L	26744.960
|	55	Mn	-0.167560	2.542	3405.107	ug/L	4686.817
|	59	Co	-0.252479	1.126	172.003	ug/L	2017.830
⌊	60	Ni	-0.191763	2.013	589.351	ug/L	873.702
⌈>	72	Ge-1			317233.533	ug/L	299297.540
|	65	Cu	-0.157664	5.167	696.357	ug/L	991.378
⌊	66	Zn	1.577223	1.369	8406.557	ug/L	6028.333
⌈>	197	Au-1			810239.035	ug/L	830146.103
|	205	Tl	-0.007740	624.443	16906.530	ug/L	17458.863
⌊	208	Pb	-0.200709	1.517	2153.084	ug/L	7584.530
⌈>	197	Au-2			810239.035	ug/L	830146.103
|	206	Pb	-0.201613	3.140	524.348	ug/L	1886.810
⌊	207	Pb	-0.198670	1.071	509.348	ug/L	1691.784
⌈>	45	Sc			223140.882	ug/L	206128.037
⌊	47	Ti	1.407072	7.108	8138.733	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	108.254	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	105.993	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	97.602	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	97.602	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	108.254	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAGC
Sample Date/Time: Tuesday, April 13, 2010 22:39:29
Autosampler Position: 20
Dataset File: D:\Elandata\Dataset\041310M1\LXRAGC.157

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			218995.340	ug/L	206128.037
|	23	Na	10021.525003	3.312	31954389.442	ug/L	24559.004
|	24	Mg	9871.942026	4.169	21133701.634	ug/L	8895.527
|	27	Al	9803.129986	4.055	31738478.543	ug/L	13997.999
|	39	K	10042.564735	3.550	56002869.493	ug/L	660038.170
|	44	Ca	9773.747262	4.373	2075254.139	ug/L	72272.079
|	57	Fe	9925.294118	1.406	2087970.849	ug/L	11492.062
|	9	Be	993.113071	1.607	327684.539	ug/L	82.001
|	51	V	1031.770491	5.182	6726735.589	ug/L	-29632.556
|	52	Cr	997.407657	1.462	6185254.232	ug/L	26744.960
|	55	Mn	994.885182	2.026	9728984.709	ug/L	4686.817
|	59	Co	1005.087045	4.932	7860798.119	ug/L	2017.830
⌊	60	Ni	954.997502	2.428	1742983.356	ug/L	873.702
⌈>	72	Ge-1			304101.714	ug/L	299297.540
|	65	Cu	899.953928	2.431	1941536.538	ug/L	991.378
⌊	66	Zn	884.354277	0.241	1090223.559	ug/L	6028.333
⌈>	197	Au-1			784088.303	ug/L	830146.103
|	205	Tl	1064.943669	2.840	18895297.011	ug/L	17458.863
⌊	208	Pb	1029.448515	2.167	26055080.137	ug/L	7584.530
⌈>	197	Au-2			784088.303	ug/L	830146.103
|	206	Pb	1006.909226	3.387	6364936.349	ug/L	1886.810
⌊	207	Pb	1051.856857	2.650	5850020.841	ug/L	1691.784
⌈>	45	Sc			218995.340	ug/L	206128.037
⌊	47	Ti	1016.674273	1.841	582121.755	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	106.242	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	101.685	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	94.452	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	94.452	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	106.242	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	H
Co	59	H
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XV
Sample Date/Time: Tuesday, April 13, 2010 22:43:19
Autosampler Position: 21
Dataset File: D:\Elandata\Dataset\041310M1\LW2XV.158

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			240334.120	ug/L	206128.037
	23	Na	495.012371	4.414	1757969.171	ug/L	24559.004
	24	Mg	9379.524472	5.233	22016102.092	ug/L	8895.527
	27	Al	2878.231189	3.997	10231569.794	ug/L	13997.999
	39	K	1206.376770	5.497	8051885.905	ug/L	660038.170
	44	Ca	15976.376320	4.604	3667163.737	ug/L	72272.079
	57	Fe	3042.472491	3.140	711367.438	ug/L	11492.062
	9	Be	-0.038979	112.620	81.668	ug/L	82.001
	51	V	2.979948	99.388	-12587.177	ug/L	-29632.556
	52	Cr	4.330873	5.309	60492.140	ug/L	26744.960
	55	Mn	391.166154	4.182	4197638.591	ug/L	4686.817
	59	Co	2.814758	4.968	26488.808	ug/L	2017.830
	60	Ni	3.121638	3.880	7262.585	ug/L	873.702
>	72	Ge-1			318489.043	ug/L	299297.540
	65	Cu	2.160123	7.136	5929.958	ug/L	991.378
	66	Zn	22.581864	1.594	35403.505	ug/L	6028.333
>	197	Au-1			789805.447	ug/L	830146.103
	205	Tl	1.629407	39.683	45666.931	ug/L	17458.863
	208	Pb	8.123123	2.376	214274.318	ug/L	7584.530
>	197	Au-2			789805.447	ug/L	830146.103
	206	Pb	8.359704	3.560	55012.990	ug/L	1886.810
	207	Pb	7.767091	2.684	45116.266	ug/L	1691.784
>	45	Sc			240334.120	ug/L	206128.037
	47	Ti	37.498701	4.304	31136.207	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	116.595	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	106.412	
	Cu	65		
	Zn	66		
>	Au-1	197	95.141	
	Tl	205		
	Pb	208		
>	Au-2	197	95.141	
	Pb	206		
	Pb	207		
>	Sc	45	116.595	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 22:47:08
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.159

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			211075.992	ug/L	206128.037
	23	Na	4019.807381	2.945	12367265.341	ug/L	24559.004
	24	Mg	7867.299166	3.785	16231859.953	ug/L	8895.527
	27	Al	3929.771297	3.197	12269171.968	ug/L	13997.999
	39	K	3917.996360	1.426	21472070.671	ug/L	660038.170
	44	Ca	7850.579697	1.204	1621707.603	ug/L	72272.079
	57	Fe	7951.508849	2.044	1614270.030	ug/L	11492.062
	9	Be	1037.450113	3.017	329833.282	ug/L	82.001
	51	V	998.823089	3.137	6275061.597	ug/L	-29632.556
	52	Cr	986.148048	3.157	5894820.303	ug/L	26744.960
	55	Mn	1012.777414	1.581	9543040.988	ug/L	4686.817
	59	Co	998.391414	3.858	7525622.769	ug/L	2017.830
	60	Ni	977.494347	3.216	1718882.202	ug/L	873.702
>	72	Ge-1			285862.889	ug/L	299297.540
	65	Cu	966.604302	2.168	1959827.452	ug/L	991.378
	66	Zn	974.424230	1.631	1128495.943	ug/L	6028.333
>	197	Au-1			791878.021	ug/L	830146.103
	205	Tl	1021.672473	3.538	18302568.563	ug/L	17458.863
	208	Pb	1007.982746	2.112	25765860.157	ug/L	7584.530
>	197	Au-2			791878.021	ug/L	830146.103
	206	Pb	1001.141406	1.459	6391503.802	ug/L	1886.810
	207	Pb	1015.051236	1.510	5701773.643	ug/L	1691.784
>	45	Sc			211075.992	ug/L	206128.037
	47	Ti	998.840846	3.376	551014.713	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.400	
	Na	23		100.495
	Mg	24		98.341
	Al	27		98.244
	K	39		97.950
	Ca	44		98.132
	Fe	57		99.394
	Be	9		103.745
	V	51		99.882
	Cr	52		98.615
	Mn	55		101.278
	Co	59		99.839
	Ni	60		97.749
>	Ge-1	72	95.511	
	Cu	65		96.660
	Zn	66		97.442
>	Au-1	197	95.390	
	Tl	205		102.167
	Pb	208		100.798
>	Au-2	197	95.390	
	Pb	206		100.114
	Pb	207		101.505
>	Sc	45	102.400	
	Ti	47		99.884

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 22:51:28
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.160

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			197286.338	ug/L	206128.037
	23	Na	1.629587	66.136	28207.370	ug/L	24559.004
	24	Mg	6.026651	28.211	20160.366	ug/L	8895.527
	27	Al	1.990860	42.418	19220.945	ug/L	13997.999
	39	K	1.607337	56.345	639736.856	ug/L	660038.170
	44	Ca	17.821871	24.495	72452.665	ug/L	72272.079
	57	Fe	8.830009	19.468	12662.185	ug/L	11492.062
	9	Be	0.676085	20.005	279.672	ug/L	82.001
	51	V	1.313643	69.373	-20608.451	ug/L	-29632.556
	52	Cr	0.657356	17.969	29248.540	ug/L	26744.960
	55	Mn	0.738549	28.440	11002.101	ug/L	4686.817
	59	Co	0.694602	29.527	6837.091	ug/L	2017.830
	60	Ni	0.629768	33.637	1873.811	ug/L	873.702
>	72	Ge-1			280045.926	ug/L	299297.540
	65	Cu	0.661384	30.128	2243.869	ug/L	991.378
	66	Zn	0.742685	21.382	6480.202	ug/L	6028.333
>	197	Au-1			783000.332	ug/L	830146.103
	205	Tl	2.351620	23.858	58089.344	ug/L	17458.863
	208	Pb	0.721412	32.690	25365.691	ug/L	7584.530
>	197	Au-2			783000.332	ug/L	830146.103
	206	Pb	0.700443	34.568	6196.458	ug/L	1886.810
	207	Pb	0.749926	33.447	5755.927	ug/L	1691.784
>	45	Sc			197286.338	ug/L	206128.037
	47	Ti	2.112510	9.376	7554.740	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.711	
	Na	23		162.959
	Mg	24		602.665
	Al	27		199.086
	K	39		160.734
	Ca	44		1782.187
	Fe	57		883.001
	Be	9		67.608
	V	51		131.364
	Cr	52		65.736
	Mn	55		73.855
	Co	59		69.460
	Ni	60		62.977
>	Ge-1	72	93.568	
	Cu	65		66.138
	Zn	66		74.269
>	Au-1	197	94.321	
	Tl	205		235.162
	Pb	208		72.141
>	Au-2	197	94.321	
	Pb	206		70.044
	Pb	207		74.993
>	Sc	45	95.711	
	Ti	47		211.251

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	Q
V	51	Q
Tl	205	Q
Ti	47	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVV
Sample Date/Time: Tuesday, April 13, 2010 22:55:47
Autosampler Position: 22
Dataset File: D:\Elandata\Dataset\041310M1\LW2XVV.161

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212634.678	ug/L	206128.037
	23	Na	112.162183	3.245	372324.738	ug/L	24559.004
	24	Mg	2148.804507	2.990	4474470.541	ug/L	8895.527
	27	Al	660.615866	4.594	2090182.354	ug/L	13997.999
	39	K	256.093687	3.445	2050176.472	ug/L	660038.170
	44	Ca	3813.051559	1.050	831922.044	ug/L	72272.079
	57	Fe	660.513829	5.588	145942.431	ug/L	11492.062
	9	Be	-0.191342	16.197	23.334	ug/L	82.001
	51	V	1.701057	76.627	-19691.691	ug/L	-29632.556
	52	Cr	0.584261	38.873	31100.527	ug/L	26744.960
	55	Mn	91.746700	2.034	875312.706	ug/L	4686.817
	59	Co	0.432987	7.055	5369.397	ug/L	2017.830
	60	Ni	0.775214	5.062	2274.537	ug/L	873.702
>	72	Ge-1			296127.740	ug/L	299297.540
	65	Cu	0.268714	0.434	1545.099	ug/L	991.378
	66	Zn	4.645239	4.708	11508.750	ug/L	6028.333
>	197	Au-1			802208.539	ug/L	830146.103
	205	Tl	0.306597	43.203	22396.185	ug/L	17458.863
	208	Pb	1.418778	3.561	44042.619	ug/L	7584.530
>	197	Au-2			802208.539	ug/L	830146.103
	206	Pb	1.486685	2.063	11434.356	ug/L	1886.810
	207	Pb	1.364112	1.701	9395.183	ug/L	1691.784
>	45	Sc			212634.678	ug/L	206128.037
	47	Tl	7.639907	2.478	11177.817	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.157	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.941	
	Cu	65		
	Zn	66		
>	Au-1	197	96.635	
	Tl	205		
	Pb	208		
>	Au-2	197	96.635	
	Pb	206		
	Pb	207		
>	Sc	45	103.157	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVS

Sample Date/Time: Tuesday, April 13, 2010 22:59:36

Autosampler Position: 23

Dataset File: D:\Elandata\Dataset\041310M1\LW2XVS.162

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			255882.571	ug/L	206128.037
	23	Na	9216.130858	1.631	34346480.761	ug/L	24559.004
	24	Mg	16963.640109	1.555	42438605.368	ug/L	8895.527
	27	Al	14327.931958	0.921	54212028.841	ug/L	13997.999
	39	K	10506.135804	2.848	68444118.917	ug/L	660038.170
	44	Ca	22658.903917	0.212	5506120.668	ug/L	72272.079
	57	Fe	10874.646843	3.734	2672273.099	ug/L	11492.062
	9	Be	853.442536	0.768	329102.288	ug/L	82.001
	51	V	890.104373	2.336	6774973.294	ug/L	-29632.556
	52	Cr	856.908904	1.653	6213175.520	ug/L	26744.960
	55	Mn	1161.413577	2.323	13268866.674	ug/L	4686.817
	59	Co	866.924203	1.590	7926564.451	ug/L	2017.830
	60	Ni	828.407574	2.720	1767202.852	ug/L	873.702
>	72	Ge-1			310228.702	ug/L	299297.540
	65	Cu	930.853267	6.547	2048449.450	ug/L	991.378
	66	Zn	921.331149	1.543	1158217.584	ug/L	6028.333
>	197	Au-1			772783.901	ug/L	830146.103
	205	Tl	1081.393033	1.157	18911140.068	ug/L	17458.863
	208	Pb	1048.690162	1.442	26158623.097	ug/L	7584.530
>	197	Au-2			772783.901	ug/L	830146.103
	206	Pb	1015.295435	1.888	6325295.524	ug/L	1886.810
	207	Pb	1092.554668	1.471	5988738.625	ug/L	1691.784
>	45	Sc			255882.571	ug/L	206128.037
	47	Ti	904.059609	1.923	605682.169	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	124.138	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	103.652	
	Cu	65		
	Zn	66		
>	Au-1	197	93.090	
	Tl	205		
	Pb	208		
>	Au-2	197	93.090	
	Pb	206		
	Pb	207		
>	Sc	45	124.138	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW2XVD
Sample Date/Time: Tuesday, April 13, 2010 23:03:24
Autosampler Position: 24
Dataset File: D:\Elandata\Dataset\041310M1\LW2XVD.163

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			258031.841	ug/L	206128.037
	23	Na	9032.285732	2.067	33940034.361	ug/L	24559.004
	24	Mg	16832.273016	0.994	42460781.805	ug/L	8895.527
	27	Al	13759.572377	2.939	52480668.660	ug/L	13997.999
	39	K	10164.101196	4.205	66765845.103	ug/L	660038.170
	44	Ca	22556.982737	2.538	5526160.446	ug/L	72272.079
	57	Fe	10802.496610	4.236	2675360.588	ug/L	11492.062
	9	Be	839.754763	1.663	326498.014	ug/L	82.001
	51	V	885.891126	2.042	6798134.155	ug/L	-29632.556
	52	Cr	873.228180	3.669	6381786.184	ug/L	26744.960
	55	Mn	1212.490756	5.470	13959001.513	ug/L	4686.817
	59	Co	862.136689	2.789	7945868.996	ug/L	2017.830
	60	Ni	830.002282	3.380	1784578.742	ug/L	873.702
>	72	Ge-1			316908.799	ug/L	299297.540
	65	Cu	899.600171	2.654	2022542.262	ug/L	991.378
	66	Zn	893.031072	1.295	1147142.472	ug/L	6028.333
>	197	Au-1			781923.476	ug/L	830146.103
	205	Tl	1072.695958	1.548	18979957.373	ug/L	17458.863
	208	Pb	1034.552862	3.019	26104392.278	ug/L	7584.530
>	197	Au-2			781923.476	ug/L	830146.103
	206	Pb	986.169194	1.311	6216752.628	ug/L	1886.810
	207	Pb	1071.356560	2.702	5941481.802	ug/L	1691.784
>	45	Sc			258031.841	ug/L	206128.037
	47	Ti	906.165909	2.999	612043.084	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	125.180	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	105.884	
	Cu	65		
	Zn	66		
>	Au-1	197	94.191	
	Tl	205		
	Pb	208		
>	Au-2	197	94.191	
	Pb	206		
	Pb	207		
>	Sc	45	125.180	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H
Tl	205	H
Pb	208	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEB
Sample Date/Time: Tuesday, April 13, 2010 23:07:12
Autosampler Position: 25
Dataset File: D:\Elandata\Dataset\041310M1\LXRAEB.164

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			229419.793	ug/L	206128.037
	23	Na	17.142868	5.167	84572.679	ug/L	24559.004
	24	Mg	-1.290958	50.108	7008.172	ug/L	8895.527
	27	Al	0.698668	66.486	17952.515	ug/L	13997.999
	39	K	-16.297747	11.603	640547.088	ug/L	660038.170
	44	Ca	-17.205953	12.998	76750.052	ug/L	72272.079
	57	Fe	10.551434	5.433	15102.708	ug/L	11492.062
	9	Be	-0.203333	11.218	21.000	ug/L	82.001
	51	V	-4.494426	62.352	-63872.146	ug/L	-29632.556
	52	Cr	1.014405	17.643	36326.187	ug/L	26744.960
	55	Mn	-0.082744	45.597	4370.049	ug/L	4686.817
	59	Co	-0.212166	12.713	507.682	ug/L	2017.830
	60	Ni	-0.160348	9.319	666.022	ug/L	873.702
>	72	Ge-1			321834.189	ug/L	299297.540
	65	Cu	-0.130328	11.227	768.695	ug/L	991.378
	66	Zn	2.754086	7.929	10051.969	ug/L	6028.333
>	197	Au-1			821596.105	ug/L	830146.103
	205	Tl	1.976236	36.356	54062.043	ug/L	17458.863
	208	Pb	-0.046849	96.116	6269.951	ug/L	7584.530
>	197	Au-2			821596.105	ug/L	830146.103
	206	Pb	-0.051305	92.087	1529.100	ug/L	1886.810
	207	Pb	-0.044591	71.941	1415.419	ug/L	1691.784
>	45	Sc			229419.793	ug/L	206128.037
	47	Tl	-0.989603	15.983	6947.759	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	111.300	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	107.530	
	Cu	65		
	Zn	66		
>	Au-1	197	98.970	
	Tl	205		
	Pb	208		
>	Au-2	197	98.970	
	Pb	206		
	Pb	207		
>	Sc	45	111.300	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXRAEC
Sample Date/Time: Tuesday, April 13, 2010 23:11:00
Autosampler Position: 26
Dataset File: D:\Elandata\Dataset\041310M1\LXRAEC.165

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			226188.963	ug/L	206128.037
	23	Na	10509.451960	3.091	34601156.804	ug/L	24559.004
	24	Mg	10053.406712	2.852	22229661.187	ug/L	8895.527
	27	Al	10198.945407	1.864	34105367.853	ug/L	13997.999
	39	K	10298.682187	3.233	59294939.566	ug/L	660038.170
	44	Ca	9982.538638	0.806	2188927.092	ug/L	72272.079
	57	Fe	9945.473328	3.267	2160113.074	ug/L	11492.062
	9	Be	978.243613	4.369	333206.829	ug/L	82.001
	51	V	1019.729200	2.737	6863583.768	ug/L	-29632.556
	52	Cr	983.735322	4.467	6296437.087	ug/L	26744.960
	55	Mn	1000.191656	5.953	10093217.329	ug/L	4686.817
	59	Co	1009.823129	5.528	8152964.328	ug/L	2017.830
	60	Ni	963.674395	3.360	1815860.600	ug/L	873.702
>	72	Ge-1			319909.489	ug/L	299297.540
	65	Cu	923.714107	3.124	2094728.521	ug/L	991.378
	66	Zn	885.289410	2.750	1147563.645	ug/L	6028.333
>	197	Au-1			798187.306	ug/L	830146.103
	205	Tl	1057.583038	1.248	19108776.441	ug/L	17458.863
	208	Pb	1045.123931	1.923	26926896.881	ug/L	7584.530
>	197	Au-2			798187.306	ug/L	830146.103
	206	Pb	1004.748014	0.916	6467677.230	ug/L	1886.810
	207	Pb	1077.640180	1.959	6103475.523	ug/L	1691.784
>	45	Sc			226188.963	ug/L	206128.037
	47	Ti	1014.533405	2.139	599926.378	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.732	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	106.887	
	Cu	65		
	Zn	66		
>	Au-1	197	96.150	
	Tl	205		
	Pb	208		
>	Au-2	197	96.150	
	Pb	206		
	Pb	207		
>	Sc	45	109.732	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	H
Mn	55	H
Co	59	H
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVE
Sample Date/Time: Tuesday, April 13, 2010 23:14:48
Autosampler Position: 27
Dataset File: D:\Elandata\Dataset\041310M1\LXHVE.166

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			237668.397	ug/L	206128.037
	23	Na	109.145221	1.770	405762.802	ug/L	24559.004
	24	Mg	0.901065	27.718	12343.791	ug/L	8895.527
	27	Al	3.064626	7.951	26897.906	ug/L	13997.999
	39	K	152.129683	2.592	1670489.138	ug/L	660038.170
	44	Ca	52.946773	8.460	95077.305	ug/L	72272.079
	57	Fe	3.842007	57.004	14117.804	ug/L	11492.062
	9	Be	-0.197782	8.383	23.667	ug/L	82.001
	51	V	-1.750038	176.395	-46743.822	ug/L	-29632.556
	52	Cr	1.113127	18.397	38305.418	ug/L	26744.960
	55	Mn	-0.034247	29.006	5040.940	ug/L	4686.817
	59	Co	-0.213446	10.470	512.682	ug/L	2017.830
	60	Ni	-0.065473	48.212	877.369	ug/L	873.702
>	72	Ge-1			328003.249	ug/L	299297.540
	65	Cu	7.170316	2.924	17759.880	ug/L	991.378
	66	Zn	11.111711	3.223	21295.410	ug/L	6028.333
>	197	Au-1			821983.564	ug/L	830146.103
	205	Tl	1.799453	33.687	50734.393	ug/L	17458.863
	208	Pb	0.158947	28.687	11727.021	ug/L	7584.530
>	197	Au-2			821983.564	ug/L	830146.103
	206	Pb	0.150962	39.667	2868.654	ug/L	1886.810
	207	Pb	0.161922	22.354	2619.267	ug/L	1691.784
>	45	Sc			237668.397	ug/L	206128.037
	47	Ti	-0.494336	43.989	7500.043	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	115.301	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	109.591	
	Cu	65		
	Zn	66		
>	Au-1	197	99.017	
	Tl	205		
	Pb	208		
>	Au-2	197	99.017	
	Pb	206		
	Pb	207		
>	Sc	45	115.301	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEV

Sample Date/Time: Tuesday, April 13, 2010 23:18:37

Autosampler Position: 28

Dataset File: D:\Elandata\Dataset\041310M1\LXHVEV.167

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			221351.517	ug/L	206128.037
	23	Na	21.785340	2.730	96504.537	ug/L	24559.004
	24	Mg	-2.619348	3.794	3880.900	ug/L	8895.527
	27	Al	-1.870678	3.410	8906.532	ug/L	13997.999
	39	K	21.950403	28.723	830196.145	ug/L	660038.170
	44	Ca	-21.317271	55.460	73146.181	ug/L	72272.079
	57	Fe	-3.812818	66.444	11522.759	ug/L	11492.062
	9	Be	-0.225899	4.548	12.667	ug/L	82.001
	51	V	-1.773696	52.757	-43486.155	ug/L	-29632.556
	52	Cr	0.237988	146.520	30158.808	ug/L	26744.960
	55	Mn	-0.203346	10.472	3020.683	ug/L	4686.817
	59	Co	-0.233846	0.801	317.673	ug/L	2017.830
	60	Ni	0.098735	50.943	1118.388	ug/L	873.702
>	72	Ge-1			310262.309	ug/L	299297.540
	65	Cu	1.361713	1.683	4022.940	ug/L	991.378
	66	Zn	2.146846	10.596	8934.552	ug/L	6028.333
>	197	Au-1			846771.025	ug/L	830146.103
	205	Tl	0.193056	63.197	21497.159	ug/L	17458.863
	208	Pb	-0.124703	4.228	4327.631	ug/L	7584.530
>	197	Au-2			846771.025	ug/L	830146.103
	206	Pb	-0.130594	2.454	1033.048	ug/L	1886.810
	207	Pb	-0.117190	4.347	1021.713	ug/L	1691.784
>	45	Sc			221351.517	ug/L	206128.037
	47	Ti	-1.684098	25.786	6300.786	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.385	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	103.664	
	Cu	65		
	Zn	66		
>	Au-1	197	102.003	
	Tl	205		
	Pb	208		
>	Au-2	197	102.003	
	Pb	206		
	Pb	207		
>	Sc	45	107.385	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEX
Sample Date/Time: Tuesday, April 13, 2010 23:22:25
Autosampler Position: 29
Dataset File: D:\Elandata\Dataset\041310M1\LXHVEX.168

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			245216.913	ug/L	206128.037
	23	Na	111.338454	3.775	426430.398	ug/L	24559.004
	24	Mg	0.167702	15.479	10983.998	ug/L	8895.527
	27	Al	1.563681	7.193	22320.652	ug/L	13997.999
	39	K	143.878727	2.193	1672535.598	ug/L	660038.170
	44	Ca	1.144172	297.170	86237.723	ug/L	72272.079
	57	Fe	-0.719514	186.596	13504.350	ug/L	11492.062
	9	Be	-0.247808	3.927	6.000	ug/L	82.001
	51	V	-1.252145	204.759	-44555.526	ug/L	-29632.556
	52	Cr	1.258510	15.250	40521.521	ug/L	26744.960
	55	Mn	-0.168667	5.665	3729.191	ug/L	4686.817
	59	Co	-0.249752	1.826	212.670	ug/L	2017.830
	60	Ni	-0.113572	6.126	807.364	ug/L	873.702
>	72	Ge-1			332246.976	ug/L	299297.540
	65	Cu	7.108490	1.446	17846.320	ug/L	991.378
	66	Zn	7.616323	2.001	16892.151	ug/L	6028.333
>	197	Au-1			833043.196	ug/L	830146.103
	205	Tl	0.026837	440.416	18029.672	ug/L	17458.863
	208	Pb	0.027380	28.662	8347.373	ug/L	7584.530
>	197	Au-2			833043.196	ug/L	830146.103
	206	Pb	0.028447	51.806	2084.506	ug/L	1886.810
	207	Pb	0.023849	54.177	1838.804	ug/L	1691.784
>	45	Sc			245216.913	ug/L	206128.037
	47	Ti	-2.368514	10.039	6552.235	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	118.963	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	111.009	
	Cu	65		
	Zn	66		
>	Au-1	197	100.349	
	Tl	205		
	Pb	208		
>	Au-2	197	100.349	
	Pb	206		
	Pb	207		
>	Sc	45	118.963	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Ti	47	L

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVES
Sample Date/Time: Tuesday, April 13, 2010 23:26:13
Autosampler Position: 30
Dataset File: D:\Elandata\Dataset\041310M1\LXHVES.169

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			244725.210	ug/L	206128.037
	23	Na	9875.929257	3.962	35184634.112	ug/L	24559.004
	24	Mg	9661.293512	3.200	23113170.467	ug/L	8895.527
	27	Al	9694.801607	1.802	35080294.535	ug/L	13997.999
	39	K	10145.635380	3.524	63213742.091	ug/L	660038.170
	44	Ca	9594.194144	1.509	2278829.845	ug/L	72272.079
	57	Fe	9664.922019	5.018	2271457.351	ug/L	11492.062
	9	Be	916.853047	3.266	338032.726	ug/L	82.001
	51	V	975.707221	1.583	7107737.318	ug/L	-29632.556
	52	Cr	955.592569	0.481	6623206.939	ug/L	26744.960
	55	Mn	971.407962	2.745	10611615.836	ug/L	4686.817
	59	Co	979.911380	4.407	8563716.997	ug/L	2017.830
	60	Ni	941.218248	3.726	1919197.968	ug/L	873.702
>	72	Ge-1			329724.310	ug/L	299297.540
	65	Cu	927.321292	2.420	2168644.380	ug/L	991.378
	66	Zn	875.717560	0.470	1170649.397	ug/L	6028.333
>	197	Au-1			822292.722	ug/L	830146.103
	205	Tl	1109.354683	0.887	20644468.939	ug/L	17458.863
	208	Pb	1059.283943	1.734	28118425.046	ug/L	7584.530
>	197	Au-2			822292.722	ug/L	830146.103
	206	Pb	1029.632337	1.330	6826579.598	ug/L	1886.810
	207	Pb	1087.900000	3.273	6345204.119	ug/L	1691.784
>	45	Sc			244725.210	ug/L	206128.037
	47	Ti	960.934104	0.932	615215.987	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	118.725	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	110.166	
	Cu	65		
	Zn	66		
>	Au-1	197	99.054	
	Tl	205		
	Pb	208		
>	Au-2	197	99.054	
	Pb	206		
	Pb	207		
>	Sc	45	118.725	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVEA
Sample Date/Time: Tuesday, April 13, 2010 23:30:01
Autosampler Position: 31
Dataset File: D:\Elandata\Dataset\041310M1\LXHVEA.170

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			242877.870	ug/L	206128.037
|	23	Na	589.237919	4.584	2110482.120	ug/L	24559.004
|	24	Mg	524.588183	2.459	1255527.137	ug/L	8895.527
|	27	Al	321.015621	4.065	1168450.372	ug/L	13997.999
|	39	K	1171.138519	3.932	7929184.570	ug/L	660038.170
|	44	Ca	1121.462739	3.137	339501.166	ug/L	72272.079
|	57	Fe	523.712541	4.530	134962.135	ug/L	11492.062
|	9	Be	4.187732	0.937	1628.776	ug/L	82.001
|	51	V	101.253755	4.502	700180.272	ug/L	-29632.556
|	52	Cr	102.046069	3.058	729813.006	ug/L	26744.960
|	55	Mn	20.594986	1.584	228709.695	ug/L	4686.817
|	59	Co	20.761626	3.504	182410.536	ug/L	2017.830
⌊	60	Ni	49.642482	5.498	101412.376	ug/L	873.702
⌈>	72	Ge-1			332928.591	ug/L	299297.540
|	65	Cu	16.906894	4.633	40977.773	ug/L	991.378
⌊	66	Zn	55.011000	3.054	80498.685	ug/L	6028.333
⌈>	197	Au-1			837595.004	ug/L	830146.103
|	205	Tl	22.085856	1.853	435903.351	ug/L	17458.863
⌊	208	Pb	31.760962	0.203	866322.101	ug/L	7584.530
⌈>	197	Au-2			837595.004	ug/L	830146.103
|	206	Pb	31.577992	0.933	215126.995	ug/L	1886.810
⌊	207	Pb	31.531720	1.010	189023.539	ug/L	1691.784
⌈>	45	Sc			242877.870	ug/L	206128.037
⌊	47	Ti	50.101563	2.816	39382.938	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	117.829	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	111.237	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.897	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.897	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	117.829	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Tuesday, April 13, 2010 23:33:51
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.171

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217983.697	ug/L	206128.037
	23	Na	3966.613620	4.742	12593241.800	ug/L	24559.004
	24	Mg	7951.609436	3.653	16936031.152	ug/L	8895.527
	27	Al	4018.026778	5.108	12944128.721	ug/L	13997.999
	39	K	4002.344610	6.292	22605353.256	ug/L	660038.170
	44	Ca	8106.153321	2.759	1726354.149	ug/L	72272.079
	57	Fe	7869.632633	4.522	1648716.461	ug/L	11492.062
	9	Be	1027.647255	3.528	337263.851	ug/L	82.001
	51	V	961.932604	1.660	6237747.272	ug/L	-29632.556
	52	Cr	957.803382	4.127	5910815.482	ug/L	26744.960
	55	Mn	979.169108	6.815	9516061.488	ug/L	4686.817
	59	Co	976.386970	6.647	7591774.899	ug/L	2017.830
	60	Ni	954.355375	5.312	1731603.205	ug/L	873.702
>	72	Ge-1			291899.116	ug/L	299297.540
	65	Cu	982.199508	5.381	2032646.209	ug/L	991.378
	66	Zn	990.355060	2.652	1170857.055	ug/L	6028.333
>	197	Au-1			802831.908	ug/L	830146.103
	205	Tl	1033.662721	0.842	18782476.752	ug/L	17458.863
	208	Pb	1022.951707	1.470	26513864.453	ug/L	7584.530
>	197	Au-2			802831.908	ug/L	830146.103
	206	Pb	1018.585296	1.534	6594203.862	ug/L	1886.810
	207	Pb	1040.450922	1.279	5925985.492	ug/L	1691.784
>	45	Sc			217983.697	ug/L	206128.037
	47	Tl	975.832917	2.090	556105.994	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.752	
	Na	23		99.165
	Mg	24		99.395
	Al	27		100.451
	K	39		100.059
	Ca	44		101.327
	Fe	57		98.370
	Be	9		102.765
	V	51		96.193
	Cr	52		95.780
	Mn	55		97.917
	Co	59		97.639
	Ni	60		95.436
>	Ge-1	72	97.528	
	Cu	65		98.220
	Zn	66		99.036
>	Au-1	197	96.710	
	Tl	205		103.366
	Pb	208		102.295
>	Au-2	197	96.710	
	Pb	206		101.859
	Pb	207		104.045
>	Sc	45	105.752	
	Tl	47		97.583

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Tuesday, April 13, 2010 23:38:10
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.172

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			199055.023	ug/L	206128.037
	23	Na	0.664436	42.000	25632.239	ug/L	24559.004
	24	Mg	2.695327	14.215	13830.842	ug/L	8895.527
	27	Al	0.853013	32.211	16021.150	ug/L	13997.999
	39	K	0.134048	2877.459	637756.525	ug/L	660036.170
	44	Ca	-14.928942	66.089	66988.032	ug/L	72272.079
	57	Fe	4.656069	41.638	11977.530	ug/L	11492.062
	9	Be	0.447560	5.602	213.337	ug/L	82.001
	51	V	0.429654	266.972	-26022.293	ug/L	-29632.556
	52	Cr	0.335271	50.198	27694.432	ug/L	26744.960
	55	Mn	0.429623	10.531	8341.856	ug/L	4686.817
	59	Co	0.436155	13.570	5051.615	ug/L	2017.830
	60	Ni	0.412782	14.686	1527.764	ug/L	873.702
>	72	Ge-1			296131.072	ug/L	299297.540
	65	Cu	0.378813	14.301	1776.128	ug/L	991.378
	66	Zn	0.357437	49.497	6390.827	ug/L	6028.333
>	197	Au-1			825518.524	ug/L	830146.103
	205	Tl	2.219833	23.895	58818.777	ug/L	17458.863
	208	Pb	0.462157	13.363	19857.974	ug/L	7584.530
>	197	Au-2			825518.524	ug/L	830146.103
	206	Pb	0.453526	16.955	4894.894	ug/L	1886.810
	207	Pb	0.464962	12.467	4405.059	ug/L	1691.784
>	45	Sc			199055.023	ug/L	206128.037
	47	Ti	0.156261	162.530	6615.598	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	96.569	
	Na	23		66.444
	Mg	24		269.533
	Al	27		85.301
	K	39		13.405
	Ca	44		-1492.894
	Fe	57		465.607
	Be	9		44.756
	V	51		42.965
	Cr	52		33.527
	Mn	55		42.962
	Co	59		43.616
	Ni	60		41.278
>	Ge-1	72	98.942	
	Cu	65		37.881
	Zn	66		35.744
>	Au-1	197	99.443	
	Tl	205		221.983
	Pb	208		46.216
>	Au-2	197	99.443	
	Pb	206		45.353
	Pb	207		46.496
>	Sc	45	96.569	
	Ti	47		15.626

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVL
Sample Date/Time: Tuesday, April 13, 2010 23:42:30
Autosampler Position: 32
Dataset File: D:\Elandata\Dataset\041310M1\LXHVL.173

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			228601.966	ug/L	206128.037
|	23	Na	305.089025	1.717	1042168.983	ug/L	24559.004
|	24	Mg	6.774828	3.361	25003.456	ug/L	8895.527
|	27	Al	14.442307	2.463	64326.548	ug/L	13997.999
|	39	K	345.186603	3.448	2715918.010	ug/L	660038.170
|	44	Ca	20.856255	12.497	84600.653	ug/L	72272.079
|	57	Fe	28.030254	4.693	18863.378	ug/L	11492.062
|	9	Be	-0.237817	3.419	9.000	ug/L	82.001
|	51	V	-4.369025	108.086	-62475.323	ug/L	-29632.556
|	52	Cr	1.593224	2.153	39924.118	ug/L	26744.960
|	55	Mn	0.287760	4.606	8131.728	ug/L	4686.817
|	59	Co	-0.234838	0.618	320.340	ug/L	2017.830
⌊	60	Ni	0.005535	386.787	979.043	ug/L	873.702
⌈>	72	Ge-1			321504.907	ug/L	299297.540
|	65	Cu	0.262884	5.867	1663.780	ug/L	991.378
⌊	66	Zn	3.809368	4.180	11412.005	ug/L	6028.333
⌈>	197	Au-1			823368.016	ug/L	830146.103
|	205	Tl	0.710862	37.079	30601.049	ug/L	17458.863
⌊	208	Pb	-0.143229	4.844	3718.560	ug/L	7584.530
⌈>	197	Au-2			823368.016	ug/L	830146.103
|	206	Pb	-0.144119	6.177	915.705	ug/L	1886.810
⌊	207	Pb	-0.143735	4.843	839.033	ug/L	1691.784
⌈>	45	Sc			228601.966	ug/L	206128.037
⌊	47	Ti	-0.675728	49.232	7106.172	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	110.903	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	107.420	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	99.184	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	99.184	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	110.903	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXHVL S

Sample Date/Time: Tuesday, April 13, 2010 23:46:19

Autosampler Position: 33

Dataset File: D:\Elandata\Dataset\041310M1\LXHVL.174

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			229158.680	ug/L	206128.037
|	23	Na	285.795652	2.162	980287.562	ug/L	24559.004
|	24	Mg	6.264861	3.853	23920.586	ug/L	8895.527
|	27	Al	19.584502	5.003	81902.524	ug/L	13997.999
|	39	K	322.714977	0.841	2593795.397	ug/L	660038.170
|	44	Ca	6.508432	38.096	81738.998	ug/L	72272.079
|	57	Fe	11.079749	7.168	15200.820	ug/L	11492.062
|	9	Be	-0.247594	5.453	5.667	ug/L	82.001
|	51	V	-3.255623	19.777	-55239.803	ug/L	-29632.556
|	52	Cr	1.330988	13.000	38334.456	ug/L	26744.960
|	55	Mn	0.205244	9.621	7309.277	ug/L	4586.817
|	59	Co	-0.246077	0.877	229.004	ug/L	2017.830
⌊	60	Ni	-0.014329	122.703	944.041	ug/L	873.702
⌈>	72	Ge-1			327743.962	ug/L	299297.540
|	65	Cu	0.215266	6.986	1585.437	ug/L	991.378
⌊	66	Zn	1.785289	12.733	8956.897	ug/L	6028.333
⌈>	197	Au-1			834164.415	ug/L	830146.103
|	205	Tl	54.185796	1.041	1039703.794	ug/L	17458.863
⌊	208	Pb	22.349955	0.758	609346.200	ug/L	7584.530
⌈>	197	Au-2			834164.415	ug/L	830146.103
|	206	Pb	23.017008	1.056	158660.620	ug/L	1886.810
⌊	207	Pb	21.652222	1.696	129784.200	ug/L	1691.784
⌈>	45	Sc			229158.680	ug/L	206128.037
⌊	47	Ti	-0.701583	3.244	7110.173	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	111.173	
|	Na	23		
⌊	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	109.504	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.484	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.484	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	111.173	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXNLM
Sample Date/Time: Tuesday, April 13, 2010 23:50:08
Autosampler Position: 34
Dataset File: D:\Elandata\Dataset\041310M1\LXNLM.175

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			235929.409	ug/L	206128.037
	23	Na	177.118648	0.858	636263.610	ug/L	24559.004
	24	Mg	6.647964	3.975	25508.683	ug/L	8895.527
	27	Al	18.892176	2.500	81887.183	ug/L	13997.999
	39	K	244.723119	5.664	2206760.083	ug/L	660038.170
	44	Ca	5.746649	116.102	83969.909	ug/L	72272.079
	57	Fe	-0.013376	7748.093	13148.370	ug/L	11492.062
	9	Be	-0.250942	0.552	4.667	ug/L	82.001
	51	V	-4.359830	23.165	-64697.383	ug/L	-29632.556
	52	Cr	1.474006	16.245	40392.775	ug/L	26744.960
	55	Mn	-0.087200	15.817	4444.402	ug/L	4686.817
	59	Co	-0.254884	0.206	161.669	ug/L	2017.830
[	60	Ni	-0.174207	10.713	657.355	ug/L	873.702
[>	72	Ge-1			323700.573	ug/L	299297.540
	65	Cu	1.515184	1.879	4549.770	ug/L	991.378
[	66	Zn	2.528396	0.693	9819.138	ug/L	6028.333
[>	197	Au-1			826112.348	ug/L	830146.103
	205	Tl	0.881505	47.152	33868.901	ug/L	17458.863
[	208	Pb	-0.111972	3.212	4561.996	ug/L	7584.530
[>	197	Au-2			826112.348	ug/L	830146.103
	206	Pb	-0.104520	9.314	1181.727	ug/L	1886.810
[	207	Pb	-0.119055	1.986	986.044	ug/L	1691.784
[>	45	Sc			235929.409	ug/L	206128.037
[	47	Ti	-1.898360	11.488	6589.585	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	114.458	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	108.153	
	Cu	65		
[	Zn	66		
[>	Au-1	197	99.514	
	Tl	205		
[	Pb	208		
[>	Au-2	197	99.514	
	Pb	206		
[	Pb	207		
[>	Sc	45	114.458	
[	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTB
Sample Date/Time: Tuesday, April 13, 2010 23:53:56
Autosampler Position: 35
Dataset File: D:\Elandata\Dataset\041310M1\LXLXTB.176

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			233014.122	ug/L	206128.037
|	23	Na	6.217946	2.505	48845.863	ug/L	24559.004
|	24	Mg	-2.508703	3.674	4340.704	ug/L	8895.527
|	27	Al	-0.235921	61.410	15007.364	ug/L	13997.999
|	39	K	-18.989782	12.081	634732.702	ug/L	660038.170
|	44	Ca	-34.348852	11.974	74215.017	ug/L	72272.079
|	57	Fe	-0.906715	108.563	12789.074	ug/L	11492.062
|	9	Be	-0.244144	3.036	7.000	ug/L	82.001
|	51	V	-4.184089	34.728	-62597.624	ug/L	-29632.556
|	52	Cr	2.271197	11.309	45147.743	ug/L	26744.960
|	55	Mn	-0.138351	12.603	3859.894	ug/L	4686.817
|	59	Co	-0.256522	0.127	146.002	ug/L	2017.830
⌊	60	Ni	-0.180555	8.337	637.021	ug/L	873.702
⌈>	72	Ge-1			326904.975	ug/L	299297.540
|	65	Cu	11.516381	4.223	27762.236	ug/L	991.378
⌊	66	Zn	15.155845	2.232	26553.259	ug/L	6028.333
⌈>	197	Au-1			834277.587	ug/L	830146.103
|	205	Tl	-0.085245	121.654	15927.779	ug/L	17458.863
⌊	208	Pb	0.862511	2.170	30846.666	ug/L	7584.530
⌈>	197	Au-2			834277.587	ug/L	830146.103
|	206	Pb	0.891171	2.041	7889.924	ug/L	1886.810
⌊	207	Pb	0.837843	2.115	6657.618	ug/L	1691.784
⌈>	45	Sc			233014.122	ug/L	206128.037
⌊	47	Tl	-2.101932	6.344	6386.825	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	113.043	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	109.224	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.498	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.498	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	113.043	
⌊	Tl	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	47	L

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLXTC
Sample Date/Time: Tuesday, April 13, 2010 23:57:44
Autosampler Position: 36
Dataset File: D:\Elandata\Dataset\041310M1\LXLXTC.177

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			239375.322	ug/L	206128.037
|	23	Na	10133.122810	3.936	35312800.348	ug/L	24559.004
|	24	Mg	9975.681776	1.629	23347575.413	ug/L	8895.527
|	27	Al	9788.824996	1.524	34656528.327	ug/L	13997.999
|	39	K	10196.139307	3.021	62139912.189	ug/L	660038.170
|	44	Ca	9781.550549	3.675	2270345.382	ug/L	72272.079
|	57	Fe	9758.540990	1.843	2243953.658	ug/L	11492.062
|	9	Be	958.683764	4.068	345663.100	ug/L	82.001
|	51	V	987.819741	3.405	7035126.354	ug/L	-29632.556
|	52	Cr	964.366118	2.597	6535807.179	ug/L	26744.960
|	55	Mn	978.119907	1.763	10452023.092	ug/L	4686.817
|	59	Co	978.252170	0.769	8365880.814	ug/L	2017.830
⌊	60	Ni	942.936135	2.597	1880933.069	ug/L	873.702
⌈>	72	Ge-1			336073.809	ug/L	299297.540
|	65	Cu	926.343635	2.133	2208726.904	ug/L	991.378
⌊	66	Zn	905.846315	2.094	1233862.906	ug/L	6028.333
⌈>	197	Au-1			838173.869	ug/L	830146.103
|	205	Tl	1059.604690	1.060	20100602.896	ug/L	17458.863
⌊	208	Pb	1027.585964	2.610	27800323.003	ug/L	7584.530
⌈>	197	Au-2			838173.869	ug/L	830146.103
|	206	Pb	1007.123055	2.636	6805154.840	ug/L	1886.810
⌊	207	Pb	1052.845485	3.810	6258640.042	ug/L	1691.784
⌈>	45	Sc			239375.322	ug/L	206128.037
⌊	47	Ti	978.543294	3.953	612378.603	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	116.129	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	112.288	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.967	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.967	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	116.129	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EE
Sample Date/Time: Wednesday, April 14, 2010 00:01:32
Autosampler Position: 37
Dataset File: D:\Elandata\Dataset\041310M1\LW7EE.178

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			225855.421	ug/L	206128.037
	23	Na	75.071372	3.047	273594.909	ug/L	24559.004
	24	Mg	38.620490	3.353	95007.359	ug/L	8895.527
	27	Al	254.614548	2.959	865257.751	ug/L	13997.999
	39	K	80.679974	3.045	1181621.091	ug/L	660038.170
	44	Ca	200.618818	5.229	121507.839	ug/L	72272.079
	57	Fe	833.985999	0.792	192482.277	ug/L	11492.062
	9	Be	-0.220057	10.025	15.000	ug/L	82.001
	51	V	-4.874652	69.269	-85253.233	ug/L	-29632.556
	52	Cr	6.068494	2.806	67931.490	ug/L	26744.960
	55	Mn	12.712731	2.034	133256.368	ug/L	4686.817
	59	Co	-0.036540	72.598	1915.482	ug/L	2017.830
	60	Ni	1.897599	1.488	4527.763	ug/L	873.702
>	72	Ge-1			329658.581	ug/L	299297.540
	65	Cu	2.487263	1.335	6906.072	ug/L	991.378
	66	Zn	55.120979	1.979	79884.242	ug/L	6028.333
>	197	Au-1			840773.326	ug/L	830146.103
	205	Tl	2.672574	27.514	68402.089	ug/L	17458.863
	208	Pb	0.145481	34.529	11619.022	ug/L	7584.530
>	197	Au-2			840773.326	ug/L	830146.103
	206	Pb	0.138621	28.024	2848.647	ug/L	1886.810
	207	Pb	0.125776	27.430	2461.904	ug/L	1691.784
>	45	Sc			225855.421	ug/L	206128.037
	47	Ti	2.901306	10.707	9108.995	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	109.570	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	110.144	
	Cu	65		
	Zn	66		
>	Au-1	197	101.280	
	Tl	205		
	Pb	208		
>	Au-2	197	101.280	
	Pb	206		
	Pb	207		
>	Sc	45	109.570	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EEV
Sample Date/Time: Wednesday, April 14, 2010 00:05:20
Autosampler Position: 38
Dataset File: D:\Elandata\Dataset\041310M1\LW7EEV.179

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			210970.238	ug/L	206128.037
	23	Na	13.564889	3.453	66786.835	ug/L	24559.004
	24	Mg	5.413579	2.932	20269.577	ug/L	8895.527
	27	Al	54.719893	2.900	184984.959	ug/L	13997.999
	39	K	12.317759	13.243	740854.690	ug/L	660038.170
	44	Ca	17.969855	29.631	77504.786	ug/L	72272.079
	57	Fe	178.335865	2.801	47696.293	ug/L	11492.062
	9	Be	-0.231563	1.444	10.333	ug/L	82.001
	51	V	-0.842219	136.197	-35632.874	ug/L	-29632.556
	52	Cr	1.325903	8.751	35253.132	ug/L	26744.960
	55	Mn	2.591860	2.049	29195.763	ug/L	4686.817
	59	Co	-0.202566	2.078	538.682	ug/L	2017.830
	60	Ni	0.503036	1.959	1778.462	ug/L	873.702
>	72	Ge-1			303856.466	ug/L	299297.540
	65	Cu	0.373124	7.308	1809.799	ug/L	991.378
	66	Zn	11.766497	3.979	20525.942	ug/L	6028.333
>	197	Au-1			821138.900	ug/L	830146.103
	205	Tl	0.354649	44.516	23837.949	ug/L	17458.863
	208	Pb	-0.135015	3.955	3923.250	ug/L	7584.530
>	197	Au-2			821138.900	ug/L	830146.103
	206	Pb	-0.139424	6.739	943.041	ug/L	1886.810
	207	Pb	-0.131414	0.245	908.038	ug/L	1691.784
>	45	Sc			210970.238	ug/L	206128.037
	47	Ti	-0.699823	40.037	6545.898	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.349	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	101.523	
	Cu	65		
	Zn	66		
>	Au-1	197	98.915	
	Tl	205		
	Pb	208		
>	Au-2	197	98.915	
	Pb	206		
	Pb	207		
>	Sc	45	102.349	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EES
Sample Date/Time: Wednesday, April 14, 2010 00:09:07
Autosampler Position: 39
Dataset File: D:\Elandata\Dataset\041310M1\LW7EES.180

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			221150.127	ug/L	206128.037
23	Na	10385.143095	7.363	33365460.362	ug/L	24559.004
24	Mg	10112.684363	6.506	21821836.497	ug/L	8895.527
27	Al	10594.246943	7.960	34552449.615	ug/L	13997.999
39	K	10686.937669	6.898	60011356.847	ug/L	660038.170
44	Ca	10139.004008	3.681	2169731.049	ug/L	72272.079
57	Fe	11044.573476	5.923	2340508.083	ug/L	11492.062
9	Be	1039.512570	5.534	345772.392	ug/L	82.001
51	V	1025.254194	5.200	6738126.131	ug/L	-29632.556
52	Cr	1027.740020	6.374	6421011.469	ug/L	26744.960
55	Mn	1015.862432	5.397	10012564.949	ug/L	4686.817
59	Co	1026.431049	5.069	8096105.533	ug/L	2017.830
60	Ni	1003.647324	6.741	1845753.221	ug/L	873.702
72	Ge-1			316686.836	ug/L	299297.540
65	Cu	942.198135	1.804	2116337.562	ug/L	991.378
66	Zn	990.180306	0.986	1270311.074	ug/L	6028.333
197	Au-1			818594.269	ug/L	830146.103
205	Tl	1029.290088	0.384	19071657.710	ug/L	17458.863
208	Pb	999.305497	1.776	26406842.130	ug/L	7584.530
197	Au-2			818594.269	ug/L	830146.103
206	Pb	971.087898	1.362	6410642.918	ug/L	1886.810
207	Pb	1032.223431	1.903	5993641.804	ug/L	1691.784
45	Sc			221150.127	ug/L	206128.037
47	Ti	1020.656853	4.307	589201.353	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	107.288	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	105.810	
Cu	65		
Zn	66		
Au-1	197	98.608	
Tl	205		
Pb	208		
Au-2	197	98.608	
Pb	206		
Pb	207		
Sc	45	107.288	
Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
V	51	H
Cr	52	H
Mn	55	H
Co	59	H
Ni	60	H
Tl	205	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EED
Sample Date/Time: Wednesday, April 14, 2010 00:12:56
Autosampler Position: 40
Dataset File: D:\Elandata\Dataset\041310M1\LW7EED.181

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	**Sc-1**			231647.669	ug/L	206128.037
	23	**Na**	**10131.025863**	5.796	34122862.772	ug/L	24559.004
	24	**Mg**	**9888.568884**	7.899	22349635.715	ug/L	8895.527
	27	**Al**	**10507.093752**	4.528	35948017.741	ug/L	13997.999
	39	**K**	**10404.030972**	6.446	61253942.819	ug/L	660038.170
	44	**Ca**	**9840.287889**	3.314	2208611.388	ug/L	72272.079
	57	**Fe**	**10688.663880**	7.167	2372805.272	ug/L	11492.062
	9	**Be**	**967.414732**	5.114	337210.680	ug/L	82.001
	51	**V**	**1003.008657**	1.918	6913464.357	ug/L	-29632.556
	52	**Cr**	**991.866792**	3.160	6500337.604	ug/L	26744.960
	55	**Mn**	**1004.348311**	6.375	10368645.558	ug/L	4686.817
	59	**Co**	**984.323517**	7.073	8129948.310	ug/L	2017.830
	60	**Ni**	**936.234080**	7.141	1804021.176	ug/L	873.702
>	72	**Ge-1**			316396.266	ug/L	299297.540
	65	**Cu**	**928.769584**	1.886	2084209.051	ug/L	991.378
	66	**Zn**	**963.452819**	1.810	1234899.008	ug/L	6028.333
>	197	**Au-1**			810371.058	ug/L	830146.103
	205	**Tl**	**1061.886624**	3.040	19468301.071	ug/L	17458.863
	208	**Pb**	**1025.385555**	2.895	26816918.603	ug/L	7584.530
>	197	**Au-2**			810371.058	ug/L	830146.103
	206	**Pb**	**1002.476654**	1.354	6549614.998	ug/L	1886.810
	207	**Pb**	**1069.293953**	3.672	6144859.862	ug/L	1691.784
>	45	**Sc**			231647.669	ug/L	206128.037
	47	**Ti**	**1003.837642**	3.483	607413.402	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	**Sc-1**	45	**112.380**	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	**Ge-1**	72	**105.713**	
	Cu	65		
	Zn	66		
>	**Au-1**	197	**97.818**	
	Tl	205		
	Pb	208		
>	**Au-2**	197	**97.618**	
	Pb	206		
	Pb	207		
>	**Sc**	45	**112.380**	
	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
V	51	H
Mn	55	H
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H
Ti	47	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EG
Sample Date/Time: Wednesday, April 14, 2010 00:16:44
Autosampler Position: 41
Dataset File: D:\Elandata\Dataset\041310M1\LW7EG.182

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			231636.880	ug/L	206128.037
|	23	Na	11.589984	6.846	66667.370	ug/L	24559.004
|	24	Mg	-0.690820	165.590	8432.395	ug/L	8895.527
|	27	Al	0.786150	35.182	18422.744	ug/L	13997.999
|	39	K	-6.874188	4.742	701676.735	ug/L	660038.170
|	44	Ca	-26.234628	14.900	75536.271	ug/L	72272.079
|	57	Fe	5.093289	63.929	14040.755	ug/L	11492.062
|	9	Be	-0.131102	46.277	46.334	ug/L	82.001
|	51	V	-6.595421	58.709	-79018.067	ug/L	-29632.556
|	52	Cr	1.938951	4.037	42712.521	ug/L	26744.960
|	55	Mn	-0.011263	297.774	5151.317	ug/L	4686.817
|	59	Co	-0.126246	40.059	1223.735	ug/L	2017.830
⌊	60	Ni	-0.044487	104.645	896.037	ug/L	873.702
⌈>	72	Ge-1			332504.434	ug/L	299297.540
|	65	Cu	0.010343	375.043	1125.389	ug/L	991.378
⌊	66	Zn	1.942305	7.351	9299.786	ug/L	6028.333
⌈>	197	Au-1			833273.985	ug/L	830146.103
|	205	Tl	2.977543	26.515	73563.708	ug/L	17458.863
⌊	208	Pb	-0.004553	1285.601	7486.200	ug/L	7584.530
⌈>	197	Au-2			833273.985	ug/L	830146.103
|	206	Pb	-0.011335	553.145	1816.137	ug/L	1886.810
⌊	207	Pb	-0.002551	2575.306	1681.452	ug/L	1691.784
⌈>	45	Sc			231636.880	ug/L	206128.037
⌊	47	Ti	-1.111327	33.802	6941.089	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	112.375	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	111.095	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.377	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.377	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	112.375	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Wednesday, April 14, 2010 00:20:33
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.183

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			216475.095	ug/L	206128.037
|	23	Na	3987.010087	2.380	12582329.424	ug/L	24559.004
|	24	Mg	7947.445572	3.111	16821451.735	ug/L	8895.527
|	27	Al	3954.117193	3.164	12662182.526	ug/L	13997.999
|	39	K	3933.278869	2.263	22102459.834	ug/L	660038.170
|	44	Ca	7919.450193	1.308	1677497.176	ug/L	72272.079
|	57	Fe	7848.323865	2.556	1634236.003	ug/L	11492.062
|	9	Be	1046.605430	3.940	341243.653	ug/L	82.001
|	51	V	983.471294	2.895	6334639.549	ug/L	-29632.556
|	52	Cr	966.338029	2.377	5922760.024	ug/L	26744.960
|	55	Mn	978.479307	3.044	9453617.456	ug/L	4686.817
|	59	Co	964.600186	2.462	7458132.555	ug/L	2017.830
⌊	60	Ni	941.453337	2.095	1698292.979	ug/L	873.702
⌈>	72	Ge-1			294680.636	ug/L	299297.540
|	65	Cu	959.087890	2.197	2005152.602	ug/L	991.378
⌊	66	Zn	978.493252	1.081	1168327.135	ug/L	6028.333
⌈>	197	Au-1			801737.546	ug/L	830146.103
|	205	Tl	1043.219622	1.226	18932901.687	ug/L	17458.863
⌊	208	Pb	1032.504081	1.471	26721828.515	ug/L	7584.530
⌈>	197	Au-2			801737.546	ug/L	830146.103
|	206	Pb	1030.065828	1.671	6659847.009	ug/L	1886.810
⌊	207	Pb	1049.375662	1.636	5967936.308	ug/L	1691.784
⌈>	45	Sc			216475.095	ug/L	206128.037
⌊	47	Ti	971.612215	1.848	550217.972	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	105.020	
|	Na	23		99.675
|	Mg	24		99.343
|	Al	27		98.853
|	K	39		98.332
|	Ca	44		98.993
|	Fe	57		98.104
|	Be	9		104.661
|	V	51		98.347
|	Cr	52		96.834
|	Mn	55		97.848
|	Co	59		96.460
⌊	Ni	60		94.145
⌈>	Ge-1	72	98.457	
|	Cu	65		95.909
⌊	Zn	66		97.849
⌈>	Au-1	197	96.578	
|	Tl	205		104.322
⌊	Pb	208		103.250
⌈>	Au-2	197	96.578	
|	Pb	206		103.007
⌊	Pb	207		104.938
⌈>	Sc	45	105.020	
⌊	Ti	47		97.161

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Wednesday, April 14, 2010 00:24:53
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.184

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			196436.091	ug/L	206128.037
|	23	Na	0.439607	96.549	24643.161	ug/L	24559.004
|	24	Mg	2.522210	16.728	13308.002	ug/L	8895.527
|	27	Al	0.587421	46.840	15036.067	ug/L	13997.999
|	39	K	3.013511	127.383	643618.274	ug/L	660038.170
|	44	Ca	-16.143986	74.366	65877.885	ug/L	72272.079
|	57	Fe	4.008163	48.756	11698.170	ug/L	11492.062
|	9	Be	0.405369	23.862	197.670	ug/L	82.001
|	51	V	-0.339321	253.122	-30187.405	ug/L	-29632.556
|	52	Cr	0.413313	80.972	27748.237	ug/L	26744.960
|	55	Mn	0.431666	11.493	8244.462	ug/L	4686.817
|	59	Co	0.432290	4.942	4954.576	ug/L	2017.830
⌊	60	Ni	0.417297	2.679	1515.429	ug/L	873.702
⌈>	72	Ge-1			292205.939	ug/L	299297.540
|	65	Cu	0.406301	4.287	1809.799	ug/L	991.378
⌊	66	Zn	0.431933	33.055	6394.829	ug/L	6028.333
⌈>	197	Au-1			820904.486	ug/L	830146.103
|	205	Tl	2.844575	22.575	69989.681	ug/L	17458.863
⌊	208	Pb	0.460108	8.035	19683.186	ug/L	7584.530
⌈>	197	Au-2			820904.486	ug/L	830146.103
|	206	Pb	0.454496	6.087	4872.547	ug/L	1886.810
⌊	207	Pb	0.462397	6.501	4363.710	ug/L	1691.784
⌈>	45	Sc			196436.091	ug/L	206128.037
⌊	47	Ti	0.033564	1004.719	6465.194	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	95.298	
|	Na	23		43.961
|	Mg	24		252.221
|	Al	27		58.742
|	K	39		301.351
|	Ca	44		-1614.399
|	Fe	57		400.816
|	Be	9		40.537
|	V	51		-33.932
|	Cr	52		41.331
|	Mn	55		43.167
|	Co	59		43.229
⌊	Ni	60		41.730
⌈>	Ge-1	72	97.631	
|	Cu	65		40.630
⌊	Zn	66		43.193
⌈>	Au-1	197	98.887	
|	Tl	205		284.457
⌊	Pb	208		46.011
⌈>	Au-2	197	98.887	
|	Pb	206		45.450
⌊	Pb	207		46.240
⌈>	Sc	45	95.298	
⌊	Ti	47		3.356

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EH
Sample Date/Time: Wednesday, April 14, 2010 00:29:13
Autosampler Position: 42
Dataset File: D:\Elandata\Dataset\041310M1\LW7EH.185

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			222607.023	ug/L	206128.037
|	23	Na	23.620508	2.676	103024.539	ug/L	24559.004
|	24	Mg	1.150839	24.543	12106.254	ug/L	8895.527
|	27	Al	3.308821	3.116	26004.578	ug/L	13997.999
|	39	K	0.228004	1255.625	713952.054	ug/L	660038.170
|	44	Ca	4.841618	128.816	79047.897	ug/L	72272.079
|	57	Fe	4.600458	72.760	13383.187	ug/L	11492.062
|	9	Be	-0.238190	1.543	8.667	ug/L	82.001
|	51	V	-3.813574	22.116	-57349.106	ug/L	-29632.556
|	52	Cr	1.510986	22.767	38356.566	ug/L	26744.960
|	55	Mn	0.078438	24.140	5839.252	ug/L	4686.817
|	59	Co	-0.231446	1.953	339.007	ug/L	2017.830
|	60	Ni	-0.125819	11.396	710.025	ug/L	873.702
⌈>	72	Ge-1			322133.060	ug/L	299297.540
|	65	Cu	-0.134820	3.025	759.028	ug/L	991.378
⌊	66	Zn	3.844068	3.483	11478.391	ug/L	6028.333
⌈>	197	Au-1			839500.019	ug/L	830146.103
|	205	Tl	1.087554	34.903	38180.574	ug/L	17458.863
⌊	208	Pb	-0.141972	8.993	3816.905	ug/L	7584.530
⌈>	197	Au-2			839500.019	ug/L	830146.103
|	206	Pb	-0.142390	8.637	943.041	ug/L	1886.810
⌊	207	Pb	-0.143797	12.707	852.701	ug/L	1691.784
⌈>	45	Sc			222607.023	ug/L	206128.037
⌊	47	Ti	-0.863908	5.159	6813.693	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	107.995	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	107.630	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	101.127	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	101.127	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	107.995	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EK
Sample Date/Time: Wednesday, April 14, 2010 00:33:01
Autosampler Position: 43
Dataset File: D:\Elandata\Dataset\041310M1\LW7EK.186

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			228609.472	ug/L	206128.037
|	23	Na	8.365450	13.183	54955.073	ug/L	24559.004
|	24	Mg	-1.681156	8.924	6098.696	ug/L	8895.527
|	27	Al	-0.238246	106.394	14693.367	ug/L	13997.999
|	39	K	-10.319888	53.632	671711.239	ug/L	660038.170
|	44	Ca	-31.694622	53.662	73273.835	ug/L	72272.079
|	57	Fe	-2.057076	143.410	12277.188	ug/L	11492.062
|	9	Be	-0.245651	1.763	6.333	ug/L	82.001
|	51	V	-3.825794	10.707	-58937.037	ug/L	-29632.556
|	52	Cr	1.434788	20.940	38852.832	ug/L	26744.960
|	55	Mn	-0.133066	22.029	3831.219	ug/L	4686.817
|	59	Co	-0.249900	1.313	197.003	ug/L	2017.830
⌊	60	Ni	0.003035	1230.205	973.043	ug/L	873.702
⌈>	72	Ge-1			328874.039	ug/L	299297.540
|	65	Cu	0.064147	42.532	1237.733	ug/L	991.378
⌊	66	Zn	1.619041	7.394	8768.445	ug/L	6028.333
⌈>	197	Au-1			828023.124	ug/L	830146.103
|	205	Tl	0.394423	32.373	24793.535	ug/L	17458.863
⌊	208	Pb	-0.205337	0.343	2077.079	ug/L	7584.530
⌈>	197	Au-2			828023.124	ug/L	830146.103
|	206	Pb	-0.205528	0.629	510.014	ug/L	1886.810
⌊	207	Pb	-0.204559	0.667	486.013	ug/L	1691.784
⌈>	45	Sc			228609.472	ug/L	206128.037
⌊	47	Ti	-1.287870	49.163	6735.655	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	110.907	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	109.882	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	99.744	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	99.744	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	110.907	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVB
Sample Date/Time: Wednesday, April 14, 2010 00:36:50
Autosampler Position: 44
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVB.187

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			216113.952	ug/L	206128.037
23	Na	29.804867	0.912	119478.601	ug/L	24559.004
24	Mg	5.652700	4.469	21260.691	ug/L	8895.527
27	Al	9.463217	2.839	44895.565	ug/L	13997.999
39	K	1.509129	201.936	699929.874	ug/L	660038.170
44	Ca	-14.492687	58.274	72817.842	ug/L	72272.079
57	Fe	4.820409	49.840	13036.665	ug/L	11492.062
9	Be	-0.243508	2.066	6.667	ug/L	82.001
51	V	-0.059800	862.913	-31491.952	ug/L	-29632.556
52	Cr	0.053900	551.636	28337.388	ug/L	26744.960
55	Mn	-0.046238	19.962	4466.409	ug/L	4686.817
59	Co	-0.245739	0.285	218.671	ug/L	2017.830
60	Ni	0.255761	13.819	1376.747	ug/L	873.702
72	Ge-1			308932.483	ug/L	299297.540
65	Cu	-0.111734	13.704	778.029	ug/L	991.378
66	Zn	4.469699	7.623	11783.978	ug/L	6028.333
197	Au-1			821212.601	ug/L	830146.103
205	Tl	0.783755	16.950	31794.408	ug/L	17458.863
208	Pb	-0.099613	7.184	4860.370	ug/L	7584.530
197	Au-2			821212.601	ug/L	830146.103
206	Pb	-0.094382	6.713	1241.400	ug/L	1886.810
207	Pb	-0.102458	9.500	1076.051	ug/L	1691.784
45	Sc			216113.952	ug/L	206128.037
47	Ti	-1.458161	28.074	6279.443	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	104.845	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	103.219	
Cu	65		
Zn	66		
Au-1	197	98.924	
Tl	205		
Pb	208		
Au-2	197	98.924	
Pb	206		
Pb	207		
Sc	45	104.845	
Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Wednesday, April 14, 2010 00:40:39
Autosampler Position: 45
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVC.188

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			273104.423	ug/L	206128.037
	23	Na	1430.664743	4.040	5713297.265	ug/L	24559.004
	24	Mg	8324.792988	4.819	22211476.508	ug/L	8895.527
	27	Al	15566.758721	3.479	62817631.670	ug/L	13997.999
	39	K	6498.089371	2.931	45484271.777	ug/L	660038.170
	44	Ca	14871.274613	2.092	3888123.811	ug/L	72272.079
	57	Fe	28849.350226	4.529	7532779.644	ug/L	11492.062
	9	Be	187.429649	5.089	77139.862	ug/L	82.001
	51	V	333.308751	4.478	2681655.047	ug/L	-29632.556
	52	Cr	147.948340	3.925	1173393.158	ug/L	26744.960
	55	Mn	1057.379742	4.026	12881786.846	ug/L	4686.817
	59	Co	446.920684	4.470	4358710.416	ug/L	2017.830
⌊	60	Ni	163.950348	5.238	373770.986	ug/L	873.702
⌈>	72	Ge-1			299076.615	ug/L	299297.540
	65	Cu	269.512227	1.985	572225.255	ug/L	991.378
⌊	66	Zn	790.411158	0.822	958731.685	ug/L	6028.333
⌈>	197	Au-1			805966.695	ug/L	830146.103
	205	Tl	600.782266	2.079	10965949.775	ug/L	17458.863
	208	Pb	538.318363	3.406	14007155.948	ug/L	7584.530
⌈>	197	Au-2			805966.695	ug/L	830146.103
	206	Pb	540.556991	2.748	3514482.848	ug/L	1886.810
⌊	207	Pb	529.142731	3.378	3026545.242	ug/L	1691.784
⌈>	45	Sc			273104.423	ug/L	206128.037
⌊	47	Ti	751.007553	1.960	538369.111	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	132.493	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	99.926	
	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	97.087	
	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	97.087	
	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	132.493	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Mn	55	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: LXLFVC
Sample Date/Time: Wednesday, April 14, 2010 00:44:28
Autosampler Position: 46
Dataset File: D:\Elandata\Dataset\041310M1\LXLFVC.189

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			231386.960	ug/L	206128.037
	23	Na	944.936193	2.919	3208691.675	ug/L	24559.004
	24	Mg	5077.514174	3.501	11491130.091	ug/L	8895.527
	27	Al	9502.666317	2.038	32512699.165	ug/L	13997.999
	39	K	3800.275745	1.862	22859018.041	ug/L	660038.170
	44	Ca	8745.101582	0.739	1971410.485	ug/L	72272.079
	57	Fe	17079.366498	0.947	3787361.163	ug/L	11492.062
	9	Be	110.381277	0.945	38569.048	ug/L	82.001
	51	V	214.390876	0.896	1450333.767	ug/L	-29632.556
	52	Cr	86.696958	2.370	595554.035	ug/L	26744.960
	55	Mn	615.795115	1.780	6364258.418	ug/L	4686.817
	59	Co	265.800960	2.117	2198916.138	ug/L	2017.830
	60	Ni	99.465654	1.593	192696.885	ug/L	873.702
>	72	Ge-1			287733.220	ug/L	299297.540
	65	Cu	139.830581	1.447	286264.065	ug/L	991.378
	66	Zn	430.986391	1.098	505661.649	ug/L	6028.333
>	197	Au-1			803987.063	ug/L	830146.103
	205	Tl	290.297586	1.135	5294590.162	ug/L	17458.863
	208	Pb	267.464763	3.523	6947655.203	ug/L	7584.530
>	197	Au-2			803987.063	ug/L	830146.103
	206	Pb	263.036682	3.522	1706545.701	ug/L	1886.810
	207	Pb	267.171718	4.499	1525217.003	ug/L	1691.784
>	45	Sc			231386.960	ug/L	206128.037
	47	Ti	434.604847	0.329	267245.001	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	112.254	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.136	
	Cu	65		
	Zn	66		
>	Au-1	197	96.849	
	Tl	205		
	Pb	208		
>	Au-2	197	96.849	
	Pb	206		
	Pb	207		
>	Sc	45	112.254	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3
Sample Date/Time: Wednesday, April 14, 2010 00:48:17
Autosampler Position: 47
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3.190

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			221229.928	ug/L	206128.037
	23	Na	27.159310	2.644	113761.298	ug/L	24559.004
	24	Mg	879.964614	3.079	1911577.273	ug/L	8895.527
	27	Al	6348.881632	2.738	20770553.368	ug/L	13997.999
	39	K	215.997512	3.277	1909701.962	ug/L	660038.170
	44	Ca	2410.691012	4.096	575492.984	ug/L	72272.079
	57	Fe	16646.104930	3.696	3527949.434	ug/L	11492.062
	9	Be	0.450537	15.102	238.004	ug/L	82.001
	51	V	35.230804	3.238	201208.122	ug/L	-29632.556
	52	Cr	18.125121	4.437	141651.647	ug/L	26744.960
	55	Mn	297.263550	3.646	2938232.566	ug/L	4686.817
	59	Co	5.663378	3.968	46899.028	ug/L	2017.830
	60	Ni	8.109731	2.844	15878.312	ug/L	873.702
>	72	Ge-1			285836.184	ug/L	299297.540
	65	Cu	7.514985	0.789	16177.316	ug/L	991.378
	66	Zn	25.865438	1.858	35561.240	ug/L	6028.333
>	197	Au-1			811959.889	ug/L	830146.103
	205	Tl	1.222172	27.412	39555.438	ug/L	17458.863
	208	Pb	8.400089	1.866	227508.982	ug/L	7584.530
>	197	Au-2			811959.889	ug/L	830146.103
	206	Pb	8.586325	2.567	58029.875	ug/L	1886.810
	207	Pb	7.995133	1.717	47690.286	ug/L	1691.784
>	45	Sc			221229.928	ug/L	206128.037
	47	Ti	60.105044	2.985	41582.513	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.326	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	95.502	
	Cu	65		
	Zn	66		
>	Au-1	197	97.809	
	Tl	205		
	Pb	208		
>	Au-2	197	97.809	
	Pb	206		
	Pb	207		
>	Sc	45	107.326	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3V
Sample Date/Time: Wednesday, April 14, 2010 00:52:05
Autosampler Position: 48
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3V.191

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	45	Sc-1			199157.217	ug/L	206128.037
	23	Na	2.682165	14.713	31489.325	ug/L	24559.004
	24	Mg	209.901839	2.044	417146.038	ug/L	8895.527
	27	Al	1486.583326	2.697	4389494.865	ug/L	13997.999
	39	K	48.373490	3.854	879946.323	ug/L	660038.170
	44	Ca	496.202766	3.634	162107.192	ug/L	72272.079
	57	Fe	3890.759143	0.647	751132.005	ug/L	11492.062
	9	Be	-0.091827	18.675	51.667	ug/L	82.001
	51	V	11.751029	1.134	41374.350	ug/L	-29632.556
	52	Cr	1.852691	7.871	36234.266	ug/L	26744.960
	55	Mn	72.808923	3.512	651458.786	ug/L	4686.817
	59	Co	1.106624	1.794	9820.807	ug/L	2017.830
[	60	Ni	1.740408	5.626	3729.858	ug/L	873.702
[>	72	Ge-1			288223.293	ug/L	299297.540
	65	Cu	1.347468	4.168	3707.518	ug/L	991.378
[	66	Zn	5.168787	6.741	11805.663	ug/L	6028.333
[>	197	Au-1			839535.963	ug/L	830146.103
	205	Tl	0.133688	129.146	20189.375	ug/L	17458.863
[	208	Pb	1.372537	4.671	44844.474	ug/L	7584.530
[>	197	Au-2			839535.963	ug/L	830146.103
	206	Pb	1.415282	1.790	11486.733	ug/L	1886.810
[	207	Pb	1.311216	3.771	9515.597	ug/L	1691.784
[>	45	Sc			199157.217	ug/L	206128.037
[	47	Tl	9.610689	6.045	11479.393	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[>	Sc-1	45	96.618	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
[	Ni	60		
[>	Ge-1	72	96.300	
	Cu	65		
[	Zn	66		
[>	Au-1	197	101.131	
	Tl	205		
[	Pb	208		
[>	Au-2	197	101.131	
	Pb	206		
[	Pb	207		
[>	Sc	45	96.618	
[	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3S
Sample Date/Time: Wednesday, April 14, 2010 00:55:53
Autosampler Position: 49
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3S.192

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			227897.945	ug/L	206128.037
	23	Na	1020.131232	2.769	3409067.886	ug/L	24559.004
	24	Mg	2107.558408	2.677	4702288.393	ug/L	8895.527
	27	Al	13991.727697	3.444	47114485.677	ug/L	13997.999
	39	K	1473.136561	3.603	9167583.149	ug/L	660038.170
	44	Ca	4256.399762	2.122	985724.000	ug/L	72272.079
	57	Fe	13867.664311	2.969	3029333.229	ug/L	11492.062
	9	Be	97.843587	2.429	33667.297	ug/L	82.001
	51	V	134.995335	2.531	886986.578	ug/L	-29632.556
	52	Cr	108.681786	3.312	727331.249	ug/L	26744.960
	55	Mn	383.575674	2.057	3904672.749	ug/L	4686.817
	59	Co	104.266072	2.837	850470.696	ug/L	2017.830
	60	Ni	101.174369	4.325	192875.328	ug/L	873.702
>	72	Ge-1			291370.665	ug/L	299297.540
	65	Cu	107.710745	1.145	223473.275	ug/L	991.378
	66	Zn	128.814136	1.506	157158.449	ug/L	6028.333
>	197	Au-1			819119.109	ug/L	830146.103
	205	Tl	100.919659	1.653	1886393.584	ug/L	17458.863
	208	Pb	107.121232	2.889	2839223.431	ug/L	7584.530
>	197	Au-2			819119.109	ug/L	830146.103
	206	Pb	105.077126	2.164	695648.268	ug/L	1886.810
	207	Pb	111.859492	2.944	651457.295	ug/L	1691.784
>	45	Sc			227897.945	ug/L	206128.037
	47	Ti	184.382330	4.085	115883.951	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	110.561	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	97.352	
	Cu	65		
	Zn	66		
>	Au-1	197	98.672	
	Tl	205		
	Pb	208		
>	Au-2	197	98.672	
	Pb	206		
	Pb	207		
>	Sc	45	110.561	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3D
Sample Date/Time: Wednesday, April 14, 2010 00:59:41
Autosampler Position: 50
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3D.193

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			228366.476	ug/L	206128.037
|	23	Na	1016.750020	3.674	3403797.723	ug/L	24559.004
|	24	Mg	2359.004419	3.518	5271782.779	ug/L	8895.527
|	27	Al	13443.372354	3.041	45364136.540	ug/L	13997.999
|	39	K	1509.366682	2.008	9396903.014	ug/L	660038.170
|	44	Ca	4267.663507	3.517	989788.766	ug/L	72272.079
|	57	Fe	13508.734360	3.570	2956998.562	ug/L	11492.062
|	9	Be	101.020350	3.927	34821.080	ug/L	82.001
|	51	V	137.367512	4.196	904623.760	ug/L	-29632.556
|	52	Cr	113.309874	4.099	758412.872	ug/L	26744.960
|	55	Mn	404.646743	4.569	4125344.602	ug/L	4686.817
|	59	Co	105.532088	3.226	862622.378	ug/L	2017.830
⌊	60	Ni	104.659573	2.055	200030.052	ug/L	873.702
⌈>	72	Ge-1			291421.652	ug/L	299297.540
|	65	Cu	109.551575	1.139	227330.670	ug/L	991.378
⌊	66	Zn	139.437808	2.196	169692.554	ug/L	6028.333
⌈>	197	Au-1			824302.265	ug/L	830146.103
|	205	Tl	102.721472	3.181	1931504.523	ug/L	17458.863
⌊	208	Pb	110.911699	1.587	2957937.245	ug/L	7584.530
⌈>	197	Au-2			824302.265	ug/L	830146.103
|	206	Pb	109.076728	0.599	726655.088	ug/L	1886.810
⌊	207	Pb	115.011752	1.019	674098.716	ug/L	1691.784
⌈>	45	Sc			228366.476	ug/L	206128.037
⌊	47	Ti	180.889787	3.884	114066.058	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	110.789	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	97.369	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	99.296	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	99.296	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	110.789	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5N3A
Sample Date/Time: Wednesday, April 14, 2010 01:03:30
Autosampler Position: 51
Dataset File: D:\Elandata\Dataset\041310M1\LW5N3A.194

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			221434.421	ug/L	206128.037
23	Na	527.315817	2.466	1725011.798	ug/L	24559.004
24	Mg	1268.202499	2.774	2753433.440	ug/L	8895.527
27	Al	6412.063278	2.770	20994094.250	ug/L	13997.999
39	K	1145.482758	5.107	7083965.578	ug/L	660038.170
44	Ca	3280.601514	4.149	755887.672	ug/L	72272.079
57	Fe	16701.458872	1.066	3543994.425	ug/L	11492.062
9	Be	5.131617	0.989	1799.798	ug/L	82.001
51	V	139.376984	0.584	891293.466	ug/L	-29632.556
52	Cr	117.161758	2.630	760275.461	ug/L	26744.960
55	Mn	306.672336	1.860	3035512.610	ug/L	4686.817
59	Co	26.341380	1.474	210558.526	ug/L	2017.830
60	Ni	56.559414	3.031	105254.245	ug/L	873.702
72	Ge-1			292091.849	ug/L	299297.540
65	Cu	17.433209	1.807	37067.404	ug/L	991.378
66	Zn	77.065826	2.979	96608.340	ug/L	6028.333
197	Au-1			826551.597	ug/L	830146.103
205	Tl	18.518987	7.043	363673.310	ug/L	17458.863
208	Pb	37.952148	1.864	1019939.199	ug/L	7584.530
197	Au-2			826551.597	ug/L	830146.103
206	Pb	38.031598	1.326	255270.042	ug/L	1886.810
207	Pb	37.672464	2.763	222512.905	ug/L	1691.784
45	Sc			221434.421	ug/L	206128.037
47	Ti	104.858843	0.530	67221.502	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	107.426	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	97.592	
Cu	65		
Zn	66		
Au-1	197	99.567	
Tl	205		
Pb	208		
Au-2	197	99.567	
Pb	206		
Pb	207		
Sc	45	107.426	
Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Wednesday, April 14, 2010 01:07:19
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.195

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			214155.349	ug/L	206128.037
|	23	Na	4032.908170	1.767	12591423.610	ug/L	24559.004
|	24	Mg	8064.847770	2.713	16887121.712	ug/L	8895.527
|	27	Al	4144.916777	1.717	13134130.959	ug/L	13997.999
|	39	K	4040.932348	0.813	22452252.230	ug/L	660038.170
|	44	Ca	7976.588687	1.163	1670758.353	ug/L	72272.079
|	57	Fe	7887.228475	2.299	1624808.128	ug/L	11492.062
	9	Be	1042.028361	2.073	336217.041	ug/L	82.001
|	51	V	1003.450310	1.600	6396071.944	ug/L	-29632.556
|	52	Cr	980.876577	2.833	5946833.437	ug/L	26744.960
|	55	Mn	972.943777	1.895	9302612.937	ug/L	4686.817
|	59	Co	969.290715	3.227	7413892.769	ug/L	2017.830
⌊	60	Ni	967.503712	0.236	1727060.192	ug/L	873.702
⌈>	72	Ge-1			286725.929	ug/L	299297.540
|	65	Cu	984.725498	3.465	2002982.016	ug/L	991.378
⌊	66	Zn	977.452708	0.331	1135513.525	ug/L	6028.333
⌈>	197	Au-1			803278.833	ug/L	830146.103
|	205	Tl	1041.885239	1.492	18941630.009	ug/L	17458.863
⌊	208	Pb	1022.544902	1.291	26518708.992	ug/L	7584.530
⌈>	197	Au-2			803278.833	ug/L	830146.103
|	206	Pb	1027.435012	2.469	6654070.111	ug/L	1886.810
⌊	207	Pb	1036.825197	2.230	5908430.979	ug/L	1691.784
⌈>	45	Sc			214155.349	ug/L	206128.037
⌊	47	Ti	993.210069	2.503	556143.228	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	103.894	
|	Na	23		100.823
|	Mg	24		100.811
|	Al	27		103.623
|	K	39		101.023
|	Ca	44		99.707
|	Fe	57		98.590
|	Be	9		104.203
|	V	51		100.345
|	Cr	52		98.088
|	Mn	55		97.294
|	Co	59		96.929
⌊	Ni	60		96.750
⌈>	Ge-1	72	95.600	
|	Cu	65		98.473
⌊	Zn	66		97.745
⌈>	Au-1	197	96.764	
|	Tl	205		104.189
⌊	Pb	208		102.254
⌈>	Au-2	197	96.764	
|	Pb	206		102.744
⌊	Pb	207		103.683
⌈>	Sc	45	103.894	
⌊	Ti	47		99.321

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Wednesday, April 14, 2010 01:11:38
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.196

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			195968.645	ug/L	206128.037
	23	Na	0.758718	57.551	25526.775	ug/L	24559.004
	24	Mg	3.108445	32.472	14437.550	ug/L	8895.527
	27	Al	1.485314	45.537	17640.853	ug/L	13997.999
	39	K	1.880747	139.486	636595.315	ug/L	660038.170
	44	Ca	-24.310626	39.745	64234.735	ug/L	72272.079
	57	Fe	7.766785	30.872	12374.665	ug/L	11492.062
	9	Be	0.480699	25.612	220.337	ug/L	82.001
	51	V	-0.586538	294.112	-31610.364	ug/L	-29632.556
	52	Cr	0.275729	76.317	26935.317	ug/L	26744.960
	55	Mn	0.482898	21.696	8691.758	ug/L	4686.817
	59	Co	0.490421	27.588	5364.420	ug/L	2017.830
	60	Ni	0.451619	24.830	1570.436	ug/L	873.702
>	72	Ge-1			286785.947	ug/L	299297.540
	65	Cu	0.403077	34.459	1770.796	ug/L	991.378
	66	Zn	0.448705	29.589	6295.784	ug/L	6028.333
>	197	Au-1			812675.990	ug/L	830146.103
	205	Tl	2.495757	24.550	63028.957	ug/L	17458.863
	208	Pb	0.511136	26.175	20869.379	ug/L	7584.530
>	197	Au-2			812675.990	ug/L	830146.103
	206	Pb	0.504244	27.593	5161.674	ug/L	1886.810
	207	Pb	0.493406	23.464	4507.435	ug/L	1691.784
>	45	Sc			195968.645	ug/L	206128.037
	47	Ti	-0.257766	91.460	6303.453	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.071	
	Na	23		75.872
	Mg	24		310.844
	Al	27		148.631
	K	39		188.075
	Ca	44		-2431.063
	Fe	57		776.678
	Be	9		48.070
	V	51		-58.654
	Cr	52		27.573
	Mn	55		48.290
	Co	59		49.042
	Ni	60		45.162
>	Ge-1	72	95.820	
	Cu	65		40.308
	Zn	66		44.870
>	Au-1	197	97.896	
	Tl	205		249.576
	Pb	208		51.114
>	Au-2	197	97.896	
	Pb	206		50.424
	Pb	207		49.341
>	Sc	45	95.071	
	Ti	47		-25.777

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PM
Sample Date/Time: Wednesday, April 14, 2010 01:15:58
Autosampler Position: 52
Dataset File: D:\Elandata\Dataset\041310M1\LW5PM.197

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			212372.905	ug/L	206128.037
	23	Na	45.452666	4.146	165724.004	ug/L	24559.004
	24	Mg	947.598024	1.415	1976034.950	ug/L	8895.527
	27	Al	5856.281544	0.890	18397162.895	ug/L	13997.999
	39	K	208.684016	1.793	1794731.430	ug/L	660038.170
	44	Ca	5774.796346	1.881	1220136.488	ug/L	72272.079
	57	Fe	7384.189721	3.188	1509194.105	ug/L	11492.062
	9	Be	0.378500	24.738	205.337	ug/L	82.001
	51	V	21.228912	3.281	104351.333	ug/L	-29632.556
	52	Cr	5.261905	7.743	59037.416	ug/L	26744.960
	55	Mn	136.689777	2.683	1300024.160	ug/L	4686.817
	59	Co	3.175278	3.046	26159.863	ug/L	2017.830
	60	Ni	5.701198	1.047	10987.334	ug/L	873.702
>	72	Ge-1			277849.999	ug/L	299297.540
	65	Cu	6.186385	1.204	13107.141	ug/L	991.378
	66	Zn	15.442444	2.432	22889.219	ug/L	6028.333
>	197	Au-1			791599.821	ug/L	830146.103
	205	Tl	0.178508	36.840	19839.326	ug/L	17458.863
	208	Pb	7.787471	1.964	206171.118	ug/L	7584.530
>	197	Au-2			791599.821	ug/L	830146.103
	206	Pb	7.793178	0.769	51529.628	ug/L	1886.810
	207	Pb	7.524599	1.186	43866.046	ug/L	1691.784
>	45	Sc			212372.905	ug/L	206128.037
	47	Ti	31.954422	2.537	24496.905	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	103.030	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.834	
	Cu	65		
	Zn	66		
>	Au-1	197	95.357	
	Tl	205		
	Pb	208		
>	Au-2	197	95.357	
	Pb	206		
	Pb	207		
>	Sc	45	103.030	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PT
Sample Date/Time: Wednesday, April 14, 2010 01:19:46
Autosampler Position: 53
Dataset File: D:\Elandata\Dataset\041310M1\LW5PT.198

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216240.363	ug/L	206128.037
	23	Na	33.257738	2.447	130394.029	ug/L	24559.004
	24	Mg	1300.703936	1.442	2758308.791	ug/L	8895.527
	27	Al	7663.563033	1.895	24507291.584	ug/L	13997.999
	39	K	318.797685	5.425	2425648.779	ug/L	660038.170
	44	Ca	2345.254599	1.493	549535.624	ug/L	72272.079
	57	Fe	12369.049852	1.685	2566215.262	ug/L	11492.062
	9	Be	0.255576	35.595	169.336	ug/L	82.001
	51	V	28.140726	1.021	150907.641	ug/L	-29632.556
	52	Cr	9.678936	3.341	87030.508	ug/L	26744.960
	55	Mn	297.260668	1.523	2873077.451	ug/L	4686.817
	59	Co	5.843589	1.564	47245.805	ug/L	2017.830
	60	Ni	10.550789	2.423	19919.077	ug/L	873.702
>	72	Ge-1			282408.375	ug/L	299297.540
	65	Cu	8.958819	4.191	18867.311	ug/L	991.378
	66	Zn	29.249631	2.818	38975.821	ug/L	6028.333
>	197	Au-1			798528.530	ug/L	830146.103
	205	Tl	-0.089660	44.700	15178.227	ug/L	17458.863
	208	Pb	11.128121	0.295	294116.133	ug/L	7584.530
>	197	Au-2			798528.530	ug/L	830146.103
	206	Pb	11.412724	1.840	75274.225	ug/L	1886.810
	207	Pb	10.587535	1.629	61600.535	ug/L	1691.784
>	45	Sc			216240.363	ug/L	206128.037
	47	Ti	84.696705	1.652	54383.534	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	104.906	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.357	
	Cu	65		
	Zn	66		
>	Au-1	197	96.191	
	Tl	205		
	Pb	208		
>	Au-2	197	96.191	
	Pb	206		
	Pb	207		
>	Sc	45	104.906	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5PX
Sample Date/Time: Wednesday, April 14, 2010 01:23:35
Autosampler Position: 54
Dataset File: D:\Elandata\Dataset\041310M1\LW5PX.199

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217587.180	ug/L	206128.037
	23	Na	35.488012	4.134	138255.698	ug/L	24559.004
	24	Mg	1077.955148	2.629	2301609.311	ug/L	8895.527
	27	Al	7147.702510	2.399	22999472.285	ug/L	13997.999
	39	K	324.544215	5.777	2472265.654	ug/L	660038.170
	44	Ca	5815.233383	0.982	1258290.604	ug/L	72272.079
	57	Fe	11597.951066	3.076	2421798.353	ug/L	11492.062
	9	Be	0.164015	12.023	140.335	ug/L	82.001
	51	V	25.403759	4.901	134097.251	ug/L	-29632.556
	52	Cr	10.972299	1.789	95519.593	ug/L	26744.960
	55	Mn	358.477986	2.907	3485003.637	ug/L	4686.817
	59	Co	5.632925	3.253	45898.762	ug/L	2017.830
	60	Ni	9.478887	3.035	18103.317	ug/L	873.702
>	72	Ge-1			289621.704	ug/L	299297.540
	65	Cu	7.968266	1.451	17320.667	ug/L	991.378
	66	Zn	29.183280	1.426	39907.753	ug/L	6028.333
>	197	Au-1			820408.741	ug/L	830146.103
	205	Tl	-0.300587	7.242	11681.900	ug/L	17458.863
	208	Pb	10.057264	3.763	273656.684	ug/L	7584.530
>	197	Au-2			820408.741	ug/L	830146.103
	206	Pb	10.430540	4.688	70797.425	ug/L	1886.810
	207	Pb	9.680787	4.695	57962.298	ug/L	1691.784
>	45	Sc			217587.180	ug/L	206128.037
	47	Ti	70.317980	2.979	46644.512	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.559	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.767	
	Cu	65		
	Zn	66		
>	Au-1	197	98.827	
	Tl	205		
	Pb	208		
>	Au-2	197	98.827	
	Pb	206		
	Pb	207		
>	Sc	45	105.559	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P2
Sample Date/Time: Wednesday, April 14, 2010 01:27:24
Autosampler Position: 55
Dataset File: D:\Elandata\Dataset\041310M1\LW5P2.200

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			211757.726	ug/L	206128.037
	23	Na	18.382144	1.223	81872.421	ug/L	24559.004
	24	Mg	725.846043	0.928	1511599.205	ug/L	8895.527
	27	Al	5020.591367	1.733	15728207.961	ug/L	13997.999
	39	K	303.421161	2.194	2294123.190	ug/L	660038.170
	44	Ca	2670.344218	2.424	602454.947	ug/L	72272.079
	57	Fe	9313.816233	0.485	1895456.705	ug/L	11492.062
	9	Be	0.128662	46.383	125.335	ug/L	82.001
	51	V	21.366689	2.884	104899.626	ug/L	-29632.556
	52	Cr	6.837313	4.595	68280.199	ug/L	26744.960
	55	Mn	254.229168	3.866	2406893.093	ug/L	4686.817
	59	Co	4.139912	1.661	33383.964	ug/L	2017.830
	60	Ni	6.650928	1.024	12630.374	ug/L	873.702
>	72	Ge-1			280786.381	ug/L	299297.540
	65	Cu	6.776348	1.042	14421.420	ug/L	991.378
	66	Zn	27.820259	2.027	37144.609	ug/L	6028.333
>	197	Au-1			805000.221	ug/L	830146.103
	205	Tl	-0.401523	6.907	9617.003	ug/L	17458.863
	208	Pb	14.349845	1.907	380155.484	ug/L	7584.530
>	197	Au-2			805000.221	ug/L	830146.103
	206	Pb	14.757594	1.874	97585.485	ug/L	1886.810
	207	Pb	13.949932	2.286	81282.104	ug/L	1691.784
>	45	Sc			211757.726	ug/L	206128.037
	47	Ti	38.910896	1.290	28227.476	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	102.731	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	93.815	
	Cu	65		
	Zn	66		
>	Au-1	197	96.971	
	Tl	205		
	Pb	208		
>	Au-2	197	96.971	
	Pb	206		
	Pb	207		
>	Sc	45	102.731	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P3
Sample Date/Time: Wednesday, April 14, 2010 01:31:12
Autosampler Position: 56
Dataset File: D:\Elandata\Dataset\041310M1\LW5P3.201

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			217248.381	ug/L	206128.037
|	23	Na	36.963502	3.263	142693.576	ug/L	24559.004
|	24	Mg	1021.331143	1.651	2177864.788	ug/L	8895.527
|	27	Al	6858.712454	2.262	22036804.296	ug/L	13997.999
|	39	K	228.696846	3.032	1944811.723	ug/L	660038.170
|	44	Ca	3994.697061	0.451	886944.794	ug/L	72272.079
|	57	Fe	11080.041982	3.389	2310045.873	ug/L	11492.062
|	9	Be	0.151356	12.784	136.002	ug/L	82.001
|	51	V	23.792054	4.855	123259.309	ug/L	-29632.556
|	52	Cr	9.363024	8.746	85454.269	ug/L	26744.960
|	55	Mn	239.582648	2.733	2327272.614	ug/L	4686.817
|	59	Co	5.427687	2.148	44232.481	ug/L	2017.830
⌊	60	Ni	7.489294	1.169	14473.473	ug/L	873.702
⌈>	72	Ge-1			284076.811	ug/L	299297.540
|	65	Cu	6.669068	3.078	14375.380	ug/L	991.378
⌊	66	Zn	23.018303	2.732	32081.325	ug/L	6028.333
⌈>	197	Au-1			804462.836	ug/L	830146.103
|	205	Tl	-0.453278	5.604	8673.057	ug/L	17458.863
⌊	208	Pb	8.613603	1.751	230981.171	ug/L	7584.530
⌈>	197	Au-2			804462.836	ug/L	830146.103
|	206	Pb	8.622866	2.618	57739.041	ug/L	1886.810
⌊	207	Pb	8.262187	3.240	48771.955	ug/L	1691.784
⌈>	45	Sc			217248.381	ug/L	206128.037
⌊	47	Ti	63.839393	4.560	42926.185	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	105.395	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.915	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	96.906	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	96.906	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	105.395	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P5
Sample Date/Time: Wednesday, April 14, 2010 01:35:02
Autosampler Position: 57
Dataset File: D:\Elandata\Dataset\041310M1\LW5P5.202

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			216242.182	ug/L	206128.037
|	23	Na	25.489826	1.911	105971.005	ug/L	24559.004
|	24	Mg	887.622152	1.298	1885516.379	ug/L	8895.527
|	27	Al	6704.419501	2.049	21446629.328	ug/L	13997.999
|	39	K	233.168685	1.395	1960596.307	ug/L	660038.170
|	44	Ca	1662.360113	1.591	411621.804	ug/L	72272.079
|	57	Fe	9517.885096	1.452	1977887.579	ug/L	11492.062
|	9	Be	0.162346	45.118	139.002	ug/L	82.001
|	51	V	24.726877	2.819	128823.813	ug/L	-29632.556
|	52	Cr	8.196425	2.378	78011.890	ug/L	26744.960
|	55	Mn	318.987014	2.540	3082984.709	ug/L	4686.817
|	59	Co	4.059153	2.709	33472.528	ug/L	2017.830
⌊	60	Ni	7.588596	0.222	14587.256	ug/L	873.702
⌈>	72	Ge-1			294526.555	ug/L	299297.540
|	65	Cu	6.140804	3.660	13799.138	ug/L	991.378
⌊	66	Zn	17.673672	3.035	26915.278	ug/L	6028.333
⌈>	197	Au-1			835297.659	ug/L	830146.103
|	205	Tl	-0.431095	3.449	9423.870	ug/L	17458.863
⌊	208	Pb	7.415009	1.943	207518.976	ug/L	7584.530
⌈>	197	Au-2			835297.659	ug/L	830146.103
|	206	Pb	7.686935	0.622	53660.471	ug/L	1886.810
⌊	207	Pb	7.051628	2.968	43471.488	ug/L	1691.784
⌈>	45	Sc			216242.182	ug/L	206128.037
⌊	47	Ti	67.188920	3.036	44610.675	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	104.907	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	98.406	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	100.621	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	100.621	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	104.907	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P7
Sample Date/Time: Wednesday, April 14, 2010 01:38:51
Autosampler Position: 58
Dataset File: D:\Elandata\Dataset\041310M1\LW5P7.203

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			221834.578	ug/L	206128.037
|	23	Na	18.704478	3.763	86770.938	ug/L	24559.004
|	24	Mg	915.970541	2.885	1994652.762	ug/L	8895.527
|	27	Al	6616.501885	3.915	21695964.544	ug/L	13997.999
|	39	K	295.370983	6.303	2356473.881	ug/L	660038.170
|	44	Ca	2084.360486	4.649	509375.789	ug/L	72272.079
|	57	Fe	12796.853634	3.849	2721849.907	ug/L	11492.062
|	9	Be	0.244738	5.129	170.003	ug/L	82.001
|	51	V	28.076792	4.164	154339.497	ug/L	-29632.556
|	52	Cr	14.369209	3.585	118595.314	ug/L	26744.960
|	55	Mn	459.767316	4.623	4554389.935	ug/L	4686.817
|	59	Co	5.780537	3.790	47943.807	ug/L	2017.830
⌊	60	Ni	8.763465	0.889	17133.109	ug/L	873.702
⌈>	72	Ge-1			291232.336	ug/L	299297.540
|	65	Cu	8.059661	5.732	17603.370	ug/L	991.378
⌊	66	Zn	28.587496	1.389	39422.742	ug/L	6028.333
⌈>	197	Au-1			816350.697	ug/L	830146.103
|	205	Tl	-0.445201	3.215	8948.225	ug/L	17458.863
⌊	208	Pb	11.091378	2.554	299645.745	ug/L	7584.530
⌈>	197	Au-2			816350.697	ug/L	830146.103
|	206	Pb	11.296592	0.362	76195.779	ug/L	1886.810
⌊	207	Pb	10.646830	2.248	63298.569	ug/L	1691.784
⌈>	45	Sc			221834.578	ug/L	206128.037
⌊	47	Ti	60.212207	3.840	41749.004	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	107.620	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	97.305	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	98.338	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	98.338	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	107.620	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5P9
Sample Date/Time: Wednesday, April 14, 2010 01:42:39
Autosampler Position: 59
Dataset File: D:\Elandata\Dataset\041310M1\LW5P9.204

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			219615.674	ug/L	206128.037
	23	Na	21.704981	6.104	95492.580	ug/L	24559.004
	24	Mg	916.555627	3.727	1976270.574	ug/L	8895.527
	27	Al	6240.300655	2.493	20271409.716	ug/L	13997.999
	39	K	325.086042	4.057	2498148.715	ug/L	660038.170
	44	Ca	2335.318613	2.433	556115.756	ug/L	72272.079
	57	Fe	9543.101357	4.735	2012921.787	ug/L	11492.062
	9	Be	0.087447	18.352	116.335	ug/L	82.001
	51	V	21.192894	0.793	107622.460	ug/L	-29632.556
	52	Cr	8.174956	3.906	79080.084	ug/L	26744.960
	55	Mn	266.680760	5.301	2617274.087	ug/L	4686.817
	59	Co	5.448821	2.211	44882.845	ug/L	2017.830
	60	Ni	7.820064	2.827	15234.940	ug/L	873.702
>	72	Ge-1			290236.580	ug/L	299297.540
	65	Cu	7.231213	2.669	15838.601	ug/L	991.378
	66	Zn	32.308229	1.673	43645.030	ug/L	6028.333
>	197	Au-1			837466.124	ug/L	830146.103
	205	Tl	-0.487554	2.053	8381.545	ug/L	17458.863
	208	Pb	9.625549	4.017	267660.594	ug/L	7584.530
>	197	Au-2			837466.124	ug/L	830146.103
	206	Pb	9.871794	3.987	68522.746	ug/L	1886.810
	207	Pb	9.290201	1.822	56872.223	ug/L	1691.784
>	45	Sc			219615.674	ug/L	206128.037
	47	Ti	60.566853	4.118	41542.413	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	106.543	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.973	
	Cu	65		
	Zn	66		
>	Au-1	197	100.882	
	Tl	205		
	Pb	208		
>	Au-2	197	100.882	
	Pb	206		
	Pb	207		
>	Sc	45	106.543	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW5QC
Sample Date/Time: Wednesday, April 14, 2010 01:46:27
Autosampler Position: 60
Dataset File: D:\Elandata\Dataset\041310M1\LW5QC.205

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			217588.438	ug/L	206128.037
	23	Na	39.131945	5.358	149655.641	ug/L	24559.004
	24	Mg	928.057920	4.744	1980927.626	ug/L	8895.527
	27	Al	6810.262413	5.929	21885133.010	ug/L	13997.999
	39	K	241.377859	4.320	2016233.716	ug/L	660038.170
	44	Ca	2640.709023	5.061	612357.342	ug/L	72272.079
	57	Fe	10698.008061	6.694	2231655.585	ug/L	11492.062
	9	Be	0.099554	24.732	119.002	ug/L	82.001
	51	V	24.446668	5.838	127569.537	ug/L	-29632.556
	52	Cr	7.346415	8.759	73185.088	ug/L	26744.960
	55	Mn	348.108585	4.371	3381217.932	ug/L	4686.817
	59	Co	4.883378	6.886	40014.054	ug/L	2017.830
	60	Ni	7.509637	6.796	14510.514	ug/L	873.702
>	72	Ge-1			294509.687	ug/L	299297.540
	65	Cu	7.292314	2.357	16199.342	ug/L	991.378
	66	Zn	22.056042	3.541	32103.355	ug/L	6028.333
>	197	Au-1			831384.430	ug/L	830146.103
	205	Tl	-0.536886	2.518	7391.988	ug/L	17458.863
	208	Pb	11.234604	0.739	309065.051	ug/L	7584.530
>	197	Au-2			831384.430	ug/L	830146.103
	206	Pb	11.541859	2.228	79241.335	ug/L	1886.810
	207	Pb	10.772845	0.605	65221.203	ug/L	1691.784
>	45	Sc			217588.438	ug/L	206128.037
	47	Ti	47.261895	4.771	33663.954	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.560	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	98.400	
	Cu	65		
	Zn	66		
>	Au-1	197	100.149	
	Tl	205		
	Pb	208		
>	Au-2	197	100.149	
	Pb	206		
	Pb	207		
>	Sc	45	105.560	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EL
Sample Date/Time: Wednesday, April 14, 2010 01:50:15
Autosampler Position: 61
Dataset File: D:\Elandata\Dataset\041310M1\LW7EL.206

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			220452.016	ug/L	206128.037
	23	Na	30.710259	2.768	124752.975	ug/L	24559.004
	24	Mg	965.679690	3.792	2089276.850	ug/L	8895.527
	27	Al	7355.393951	3.613	23972235.668	ug/L	13997.999
	39	K	265.661687	4.547	2177954.138	ug/L	660038.170
	44	Ca	1986.483938	2.661	486244.796	ug/L	72272.079
	57	Fe	11075.583095	5.234	2342886.331	ug/L	11492.062
	9	Be	0.156247	20.346	139.669	ug/L	82.001
	51	V	24.350515	2.254	128850.033	ug/L	-29632.556
	52	Cr	7.328562	5.373	74111.191	ug/L	26744.960
	55	Mn	331.206969	5.859	3261273.608	ug/L	4686.817
	59	Co	5.374913	6.767	44441.219	ug/L	2017.830
	60	Ni	7.108621	6.256	13978.649	ug/L	873.702
>	72	Ge-1			289712.213	ug/L	299297.540
	65	Cu	7.450569	3.074	16263.419	ug/L	991.378
	66	Zn	23.599175	2.469	33397.679	ug/L	6028.333
>	197	Au-1			820311.321	ug/L	830146.103
	205	Tl	-0.476487	2.499	8414.230	ug/L	17458.863
	208	Pb	8.744337	1.479	239016.393	ug/L	7584.530
>	197	Au-2			820311.321	ug/L	830146.103
	206	Pb	9.058645	1.893	61766.214	ug/L	1886.810
	207	Pb	8.390500	0.990	50489.910	ug/L	1691.784
>	45	Sc			220452.016	ug/L	206128.037
	47	Ti	69.013311	1.934	46516.762	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	106.949	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	96.797	
	Cu	65		
	Zn	66		
>	Au-1	197	98.815	
	Tl	205		
	Pb	208		
>	Au-2	197	98.815	
	Pb	206		
	Pb	207		
>	Sc	45	106.949	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6
Sample Date/Time: Wednesday, April 14, 2010 01:54:04
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 6.207

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			206458.921	ug/L	206128.037
	23	Na	4104.996767	1.752	12358297.328	ug/L	24559.004
	24	Mg	8088.153665	1.122	16331026.745	ug/L	8895.527
	27	Al	4088.600569	0.935	12491311.963	ug/L	13997.999
	39	K	4067.870448	0.802	21784665.752	ug/L	660038.170
	44	Ca	8012.360396	0.938	1617710.684	ug/L	72272.079
	57	Fe	7858.098027	1.323	1560958.261	ug/L	11492.062
	9	Be	1064.237065	1.440	331098.934	ug/L	82.001
	51	V	997.672797	1.323	6130961.387	ug/L	-29632.556
	52	Cr	986.031496	2.206	5765043.225	ug/L	26744.960
	55	Mn	980.432874	1.850	9038000.898	ug/L	4686.817
	59	Co	980.359162	3.352	7231166.189	ug/L	2017.830
	60	Ni	963.644949	2.983	1658199.338	ug/L	873.702
>	72	Ge-1			272541.462	ug/L	299297.540
	65	Cu	991.063832	4.211	1915296.892	ug/L	991.378
	66	Zn	1011.872463	1.755	1117143.422	ug/L	6028.333
>	197	Au-1			777937.898	ug/L	830146.103
	205	Tl	1013.373631	1.317	17845412.574	ug/L	17458.863
	208	Pb	1033.304676	3.660	25947043.464	ug/L	7584.530
>	197	Au-2			777937.898	ug/L	830146.103
	206	Pb	1017.833831	2.922	6383855.691	ug/L	1886.810
	207	Pb	1047.639442	2.359	5781464.458	ug/L	1691.784
>	45	Sc			206458.921	ug/L	206128.037
	47	Ti	961.273411	0.800	519211.533	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.161	
	Na	23		102.625
	Mg	24		101.102
	Al	27		102.215
	K	39		101.697
	Ca	44		100.155
	Fe	57		98.226
	Be	9		106.424
	V	51		99.767
	Cr	52		98.603
	Mn	55		98.043
	Co	59		98.036
	Ni	60		96.364
>	Ge-1	72	91.060	
	Cu	65		99.106
	Zn	66		101.187
>	Au-1	197	93.711	
	Tl	205		101.337
	Pb	208		103.330
>	Au-2	197	93.711	
	Pb	206		101.783
	Pb	207		104.764
>	Sc	45	100.161	
	Ti	47		96.127

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 10
Sample Date/Time: Wednesday, April 14, 2010 01:58:24
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\QC Std 10.208

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			197328.130	ug/L	206128.037
	23	Na	0.248437	57.027	24223.766	ug/L	24559.004
	24	Mg	2.920071	22.438	14147.847	ug/L	8895.527
	27	Al	1.466249	32.888	17677.153	ug/L	13997.999
	39	K	-2.150345	32.090	621192.340	ug/L	660038.170
	44	Ca	-33.558183	7.981	63001.253	ug/L	72272.079
	57	Fe	7.779719	34.576	12467.166	ug/L	11492.062
	9	Be	0.494044	15.010	225.337	ug/L	82.001
	51	V	0.390281	38.434	-26063.532	ug/L	-29632.556
	52	Cr	0.153018	119.061	26454.092	ug/L	26744.960
	55	Mn	0.501778	15.493	8905.875	ug/L	4686.817
	59	Co	0.455315	18.359	5140.984	ug/L	2017.830
	60	Ni	0.429061	19.605	1541.766	ug/L	873.702
>	72	Ge-1			276988.099	ug/L	299297.540
	65	Cu	0.423845	16.474	1750.125	ug/L	991.378
	66	Zn	0.551641	3.536	6195.072	ug/L	6028.333
>	197	Au-1			787239.045	ug/L	830146.103
	205	Tl	2.125703	22.100	54458.337	ug/L	17458.863
	208	Pb	0.503445	11.614	19974.076	ug/L	7584.530
>	197	Au-2			787239.045	ug/L	830146.103
	206	Pb	0.493460	9.269	4918.897	ug/L	1886.810
	207	Pb	0.488965	11.330	4332.368	ug/L	1691.784
>	45	Sc			197328.130	ug/L	206128.037
	47	Ti	-0.201518	101.680	6377.487	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	95.731	
	Na	23		24.844
	Mg	24		292.007
	Al	27		146.625
	K	39		-215.034
	Ca	44		-3355.818
	Fe	57		777.972
	Be	9		49.404
	V	51		39.028
	Cr	52		15.302
	Mn	55		50.178
	Co	59		45.532
	Ni	60		42.906
>	Ge-1	72	92.546	
	Cu	65		42.384
	Zn	66		55.164
>	Au-1	197	94.831	
	Tl	205		212.570
	Pb	208		50.345
>	Au-2	197	94.831	
	Pb	206		49.346
	Pb	207		48.896
>	Sc	45	95.731	
	Ti	47		-20.152

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Tl	205	Q

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7ER
Sample Date/Time: Wednesday, April 14, 2010 02:02:43
Autosampler Position: 62
Dataset File: D:\Elandata\Dataset\041310M1\LW7ER.209

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			221727.041	ug/L	206128.037
	23	Na	27.805186	1.216	116132.977	ug/L	24559.004
	24	Mg	1018.740681	0.897	2217619.518	ug/L	8895.527
	27	Al	7921.762406	1.574	25979777.002	ug/L	13997.999
	39	K	273.817474	0.409	2237050.272	ug/L	660038.170
	44	Ca	3003.530271	0.678	699858.164	ug/L	72272.079
	57	Fe	10597.146260	1.489	2256406.464	ug/L	11492.062
	9	Be	0.279924	17.821	181.670	ug/L	82.001
	51	V	23.558642	0.619	124359.626	ug/L	-29632.556
	52	Cr	8.096044	5.186	79363.783	ug/L	26744.960
	55	Mn	243.547957	1.100	2414871.558	ug/L	4686.817
	59	Co	3.853708	1.561	32689.688	ug/L	2017.830
	60	Ni	7.756379	2.105	15265.973	ug/L	873.702
>	72	Ge-1			276686.864	ug/L	299297.540
	65	Cu	8.445709	3.780	17483.874	ug/L	991.378
	66	Zn	28.251475	0.976	37082.438	ug/L	6028.333
>	197	Au-1			804681.403	ug/L	830146.103
	205	Tl	0.008414	529.841	17070.373	ug/L	17458.863
	208	Pb	8.047496	0.480	216373.394	ug/L	7584.530
>	197	Au-2			804681.403	ug/L	830146.103
	206	Pb	8.273557	2.500	55489.797	ug/L	1886.810
	207	Pb	7.675611	1.036	45446.634	ug/L	1691.784
>	45	Sc			221727.041	ug/L	206128.037
	47	Tl	62.768800	1.894	43213.027	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	107.568	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	92.445	
	Cu	65		
	Zn	66		
>	Au-1	197	96.933	
	Tl	205		
	Pb	208		
>	Au-2	197	96.933	
	Pb	206		
	Pb	207		
>	Sc	45	107.568	
	Tl	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EW
Sample Date/Time: Wednesday, April 14, 2010 02:06:31
Autosampler Position: 63
Dataset File: D:\Elandata\Dataset\041310M1\LW7EW.210

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			216529.555	ug/L	206128.037
	23	Na	39.103395	2.972	148968.204	ug/L	24559.004
	24	Mg	1317.072172	2.557	2796154.268	ug/L	8895.527
	27	Al	7769.506004	4.514	24868562.492	ug/L	13997.999
	39	K	303.393192	4.127	2344856.976	ug/L	660038.170
	44	Ca	2825.168631	1.828	647269.303	ug/L	72272.079
	57	Fe	11750.734199	1.096	2441891.154	ug/L	11492.062
	9	Be	0.216088	30.532	156.669	ug/L	82.001
	51	V	29.751879	3.163	161484.075	ug/L	-29632.556
	52	Cr	9.846010	4.970	88188.870	ug/L	26744.960
	55	Mn	335.309617	1.899	3244359.826	ug/L	4686.817
	59	Co	4.752404	1.873	38871.883	ug/L	2017.830
	60	Ni	9.206105	1.942	17523.921	ug/L	873.702
>	72	Ge-1			282295.924	ug/L	299297.540
	65	Cu	8.830694	0.806	18610.301	ug/L	991.378
	66	Zn	28.663571	2.814	38301.008	ug/L	6028.333
>	197	Au-1			799268.240	ug/L	830146.103
	205	Tl	-0.277027	10.087	11802.331	ug/L	17458.863
	208	Pb	9.113076	1.977	242433.840	ug/L	7584.530
>	197	Au-2			799268.240	ug/L	830146.103
	206	Pb	9.248865	1.841	61417.758	ug/L	1886.810
	207	Pb	8.645609	0.863	50644.806	ug/L	1691.784
>	45	Sc			216529.555	ug/L	206128.037
	47	Ti	79.877918	2.422	51758.123	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	105.046	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.319	
	Cu	65		
	Zn	66		
>	Au-1	197	96.280	
	Tl	205		
	Pb	208		
>	Au-2	197	96.280	
	Pb	206		
	Pb	207		
>	Sc	45	105.046	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7EX
Sample Date/Time: Wednesday, April 14, 2010 02:10:19
Autosampler Position: 64
Dataset File: D:\Elandata\Dataset\041310M1\LW7EX.211

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	45	Sc-1			206902.055	ug/L	206128.037
	23	Na	23.182844	1.877	94444.452	ug/L	24559.004
	24	Mg	1197.655022	1.970	2430960.314	ug/L	8895.527
	27	Al	5230.862946	3.537	16007844.383	ug/L	13997.999
	39	K	336.467487	1.203	2413389.254	ug/L	660038.170
	44	Ca	6153.504416	1.354	1261813.844	ug/L	72272.079
	57	Fe	8397.774966	2.752	1670697.151	ug/L	11492.062
	9	Be	0.130669	15.383	123.002	ug/L	82.001
	51	V	20.289184	4.010	95800.582	ug/L	-29632.556
	52	Cr	5.614402	2.208	59586.962	ug/L	26744.960
	55	Mn	264.140969	0.988	2443680.335	ug/L	4686.817
	59	Co	3.536808	1.206	28165.696	ug/L	2017.830
	60	Ni	6.403067	2.386	11914.421	ug/L	873.702
>	72	Ge-1			281367.927	ug/L	299297.540
	65	Cu	6.161401	2.164	13224.252	ug/L	991.378
	66	Zn	32.858880	1.539	42933.855	ug/L	6028.333
>	197	Au-1			797085.830	ug/L	830146.103
	205	Tl	-0.412364	10.240	9332.822	ug/L	17458.863
	208	Pb	9.269018	2.446	245720.132	ug/L	7584.530
>	197	Au-2			797085.830	ug/L	830146.103
	206	Pb	9.535540	3.457	63073.291	ug/L	1886.810
	207	Pb	8.832890	3.031	51553.059	ug/L	1691.784
>	45	Sc			206902.055	ug/L	206128.037
	47	Ti	49.002645	1.276	32969.998	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
>	Sc-1	45	100.376	
	Na	23		
	Mg	24		
	Al	27		
	K	39		
	Ca	44		
	Fe	57		
	Be	9		
	V	51		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
>	Ge-1	72	94.009	
	Cu	65		
	Zn	66		
>	Au-1	197	96.018	
	Tl	205		
	Pb	208		
>	Au-2	197	96.018	
	Pb	206		
	Pb	207		
>	Sc	45	100.376	
	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E1
Sample Date/Time: Wednesday, April 14, 2010 02:14:08
Autosampler Position: 65
Dataset File: D:\Elandata\Dataset\041310M1\LW7E1.212

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			214861.145	ug/L	206128.037
|	23	Na	29.906658	3.952	119054.601	ug/L	24559.004
|	24	Mg	1027.911102	2.891	2167213.168	ug/L	8895.527
|	27	Al	6936.683178	1.466	22040890.527	ug/L	13997.999
|	39	K	262.156056	1.259	2104455.032	ug/L	660038.170
|	44	Ca	3386.902466	1.456	755029.689	ug/L	72272.079
|	57	Fe	14802.741772	3.451	3048118.219	ug/L	11492.062
|	9	Be	0.258180	12.511	169.003	ug/L	82.001
|	51	V	27.059960	1.816	143057.245	ug/L	-29632.556
|	52	Cr	9.620407	4.238	86121.123	ug/L	26744.960
|	55	Mn	286.304697	3.500	2748630.290	ug/L	4686.817
|	59	Co	5.052140	4.810	40846.740	ug/L	2017.830
⌊	60	Ni	9.843421	2.711	18522.853	ug/L	873.702
⌈>	72	Ge-1			283432.195	ug/L	299297.540
|	65	Cu	18.926020	0.661	38972.479	ug/L	991.378
⌊	66	Zn	27.710713	1.745	37365.177	ug/L	6028.333
⌈>	197	Au-1			803807.421	ug/L	830146.103
|	205	Tl	-0.466259	6.910	8431.248	ug/L	17458.863
⌊	208	Pb	9.987140	1.210	266427.596	ug/L	7584.530
⌈>	197	Au-2			803807.421	ug/L	830146.103
|	206	Pb	10.136619	0.996	67514.559	ug/L	1886.810
⌊	207	Pb	9.521199	1.683	55913.443	ug/L	1691.784
⌈>	45	Sc			214861.145	ug/L	206128.037
⌊	47	Ti	64.566917	0.256	42877.040	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	104.237	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	94.699	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	96.827	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	96.827	
|	Pb	208		
⌊	Pb	207		
⌈>	Sc	45	104.237	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E2
Sample Date/Time: Wednesday, April 14, 2010 02:17:57
Autosampler Position: 66
Dataset File: D:\Elandata\Dataset\041310M1\LW7E2.213

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			218458.939	ug/L	206128.037
|	23	Na	28.487121	5.014	116538.403	ug/L	24559.004
|	24	Mg	928.133576	4.236	1990529.331	ug/L	8895.527
|	27	Al	6577.689154	4.972	21246159.879	ug/L	13997.999
|	39	K	314.016796	5.413	2423944.800	ug/L	660038.170
|	44	Ca	3564.768619	1.666	804082.314	ug/L	72272.079
|	57	Fe	11180.432084	4.954	2343427.685	ug/L	11492.062
|	9	Be	0.173403	12.851	144.002	ug/L	82.001
|	51	V	26.747448	1.064	143375.594	ug/L	-29632.556
|	52	Cr	7.675938	3.837	75588.553	ug/L	26744.960
|	55	Mn	316.147244	6.489	3084476.274	ug/L	4686.817
|	59	Co	4.606898	3.188	38072.719	ug/L	2017.830
⌊	60	Ni	7.062170	2.984	13773.775	ug/L	873.702
⌈>	72	Ge-1			284863.889	ug/L	299297.540
|	65	Cu	7.243094	1.743	15571.972	ug/L	991.378
⌊	66	Zn	25.755991	0.804	35312.279	ug/L	6028.333
⌈>	197	Au-1			792954.888	ug/L	830146.103
|	205	Tl	-0.491883	3.693	7861.581	ug/L	17458.863
⌊	208	Pb	10.086791	2.020	265325.364	ug/L	7584.530
⌈>	197	Au-2			792954.888	ug/L	830146.103
|	206	Pb	10.369374	2.062	68077.223	ug/L	1886.810
⌊	207	Pb	9.681693	1.698	56054.322	ug/L	1691.784
⌈>	45	Sc			218458.939	ug/L	206128.037
⌊	47	Ti	69.298114	2.709	46255.919	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	105.982	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	95.177	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	95.520	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	95.520	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	105.982	
⌊	Ti	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: LW7E3
Sample Date/Time: Wednesday, April 14, 2010 02:21:45
Autosampler Position: 67
Dataset File: D:\Elandata\Dataset\041310M1\LW7E3.214

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc-1			211299.309	ug/L	206128.037
23	Na	43.267683	1.469	158214.580	ug/L	24559.004
24	Mg	934.128276	0.200	1938473.608	ug/L	8895.527
27	Al	5750.158266	1.344	17973456.779	ug/L	13997.999
39	K	292.429512	3.047	2230603.345	ug/L	660038.170
44	Ca	2999.615069	1.580	666217.950	ug/L	72272.079
57	Fe	10028.917084	0.511	2035700.522	ug/L	11492.062
9	Be	0.111902	19.543	119.668	ug/L	82.001
51	V	23.025146	1.803	115128.482	ug/L	-29632.556
52	Cr	6.099907	1.870	63743.537	ug/L	26744.960
55	Mn	727.169123	1.089	6861578.019	ug/L	4686.817
59	Co	6.698654	4.600	52618.350	ug/L	2017.830
60	Ni	7.961767	1.993	14909.927	ug/L	873.702
72	Ge-1			282797.105	ug/L	299297.540
65	Cu	5.896021	2.696	14761.438	ug/L	991.378
66	Zn	27.227320	3.562	36725.859	ug/L	6028.333
197	Au-1			803108.718	ug/L	830146.103
205	Tl	-0.529735	3.191	7267.922	ug/L	17458.863
208	Pb	12.574495	1.161	333311.758	ug/L	7584.530
197	Au-2			803108.718	ug/L	830146.103
206	Pb	12.765267	2.022	84468.556	ug/L	1886.810
207	Pb	12.046780	1.691	70265.819	ug/L	1691.784
45	Sc			211299.309	ug/L	206128.037
47	Ti	65.542213	1.665	42698.154	ug/L	6769.004

Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Sc-1	45	102.509	
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
Fe	57		
Be	9		
V	51		
Cr	52		
Mn	55		
Co	59		
Ni	60		
Ge-1	72	94.487	
Cu	65		
Zn	66		
Au-1	197	96.743	
Tl	205		
Pb	208		
Au-2	197	96.743	
Pb	206		
Pb	207		
Sc	45	102.509	
Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV
Sample Date/Time: Wednesday, April 14, 2010 02:25:35
Autosampler Position: 228
Dataset File: D:\Elandata\Dataset\041310M1\CCV.215

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	**Sc-1**			203045.257	ug/L	206128.037
|	23	**Na**	**4114.517426**	1.350	12178933.830	ug/L	24559.004
|	24	**Mg**	**8122.761051**	4.282	16115315.842	ug/L	8895.527
|	27	**Al**	**4048.050354**	4.587	12150569.860	ug/L	13997.999
|	39	**K**	**4008.177180**	4.924	21096818.098	ug/L	660038.170
|	44	**Ca**	**8079.898958**	4.411	1602248.382	ug/L	72272.079
|	57	**Fe**	**8081.987006**	2.323	1577996.972	ug/L	11492.062
|	9	**Be**	**1082.042567**	2.875	330861.941	ug/L	82.001
|	51	**V**	**998.546874**	1.610	6032693.772	ug/L	-29632.556
|	52	**Cr**	**1002.603518**	1.558	5762439.573	ug/L	26744.960
|	55	**Mn**	**1013.740848**	1.842	9186575.762	ug/L	4686.817
|	59	**Co**	**984.894016**	3.840	7138911.658	ug/L	2017.830
⌊	60	**Ni**	**985.822113**	4.450	1666831.153	ug/L	873.702
⌈>	72	**Ge-1**			278984.788	ug/L	299297.540
|	65	**Cu**	**982.631623**	1.252	1944576.925	ug/L	991.378
⌊	66	**Zn**	**995.666158**	1.702	1125209.100	ug/L	6028.333
⌈>	197	**Au-1**			788866.050	ug/L	830146.103
|	205	**Tl**	**1026.513868**	2.158	18328423.335	ug/L	17458.863
⌊	208	**Pb**	**1028.487574**	2.225	26194985.948	ug/L	7584.530
⌈>	197	**Au-2**			788866.050	ug/L	830146.103
|	206	**Pb**	**1017.991207**	2.354	6475802.563	ug/L	1886.810
⌊	207	**Pb**	**1037.192516**	3.142	5805256.519	ug/L	1691.784
⌈>	45	**Sc**			203045.257	ug/L	206128.037
⌊	47	**Ti**	**977.550701**	1.722	518994.059	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	**Sc-1**	45	**98.504**	
|	**Na**	23		
|	**Mg**	24		
|	**Al**	27		
|	**K**	39		
|	**Ca**	44		
|	**Fe**	57		
|	**Be**	9		
|	**V**	51		
|	**Cr**	52		
|	**Mn**	55		
|	**Co**	59		
⌊	**Ni**	60		
⌈>	**Ge-1**	72	**93.213**	
|	**Cu**	65		
⌊	**Zn**	66		
⌈>	**Au-1**	197	**95.027**	
|	**Tl**	205		
⌊	**Pb**	208		
⌈>	**Au-2**	197	**95.027**	
|	**Pb**	206		
⌊	**Pb**	207		
⌈>	**Sc**	45	**98.504**	
⌊	**Ti**	47		

QC Out Of Limits

Analyte	Mass	Out of Limits Message
Be	9	H
Cr	52	H
Mn	55	H
Tl	205	H
Pb	208	H
Pb	206	H
Pb	207	H

QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB
Sample Date/Time: Wednesday, April 14, 2010 02:29:24
Autosampler Position: 237
Dataset File: D:\Elandata\Dataset\041310M1\CCB.216

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	45	Sc-1			183664.048	ug/L	206128.037
|	23	Na	2.070952	8.147	27415.559	ug/L	24559.004
|	24	Mg	5.657832	1.046	18083.287	ug/L	8895.527
|	27	Al	3.379864	8.748	21643.275	ug/L	13997.999
|	39	K	5.740770	29.383	614566.137	ug/L	660038.170
|	44	Ca	-3.562213	164.855	63776.012	ug/L	72272.079
|	57	Fe	14.926409	13.880	12857.134	ug/L	11492.062
|	9	Be	0.785333	5.057	290.339	ug/L	82.001
|	51	V	1.123776	164.463	-20152.592	ug/L	-29632.556
|	52	Cr	0.815176	25.747	28045.136	ug/L	26744.960
|	55	Mn	0.902803	4.170	11573.136	ug/L	4686.817
|	59	Co	0.757532	2.102	6766.670	ug/L	2017.830
⌊	60	Ni	0.743471	6.003	1916.148	ug/L	873.702
⌈>	72	Ge-1			273369.751	ug/L	299297.540
|	65	Cu	0.701994	2.430	2266.536	ug/L	991.378
⌊	66	Zn	0.772937	3.767	6357.478	ug/L	6028.333
⌈>	197	Au-1			776666.104	ug/L	830146.103
|	205	Tl	2.403818	22.279	58676.750	ug/L	17458.863
⌊	208	Pb	0.783722	2.640	26737.980	ug/L	7584.530
⌈>	197	Au-2			776666.104	ug/L	830146.103
|	206	Pb	0.787831	5.652	6698.974	ug/L	1886.810
⌊	207	Pb	0.807208	4.704	6031.002	ug/L	1691.784
⌈>	45	Sc			183664.048	ug/L	206128.037
⌊	47	Ti	1.514328	23.464	6747.994	ug/L	6769.004

Internal Standard And QC Recoveries

	Analyte	Mass	Int Std % Recovery	QC Std % Recovery
⌈>	Sc-1	45	89.102	
|	Na	23		
|	Mg	24		
|	Al	27		
|	K	39		
|	Ca	44		
|	Fe	57		
|	Be	9		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Co	59		
⌊	Ni	60		
⌈>	Ge-1	72	91.337	
|	Cu	65		
⌊	Zn	66		
⌈>	Au-1	197	93.558	
|	Tl	205		
⌊	Pb	208		
⌈>	Au-2	197	93.558	
|	Pb	206		
⌊	Pb	207		
⌈>	Sc	45	89.102	
⌊	Ti	47		

QC Out Of Limits

Analyte Mass Out of Limits Message

Analytical Runlog for Mercury Analysis

Run #: AA0414F

Instrument ID:

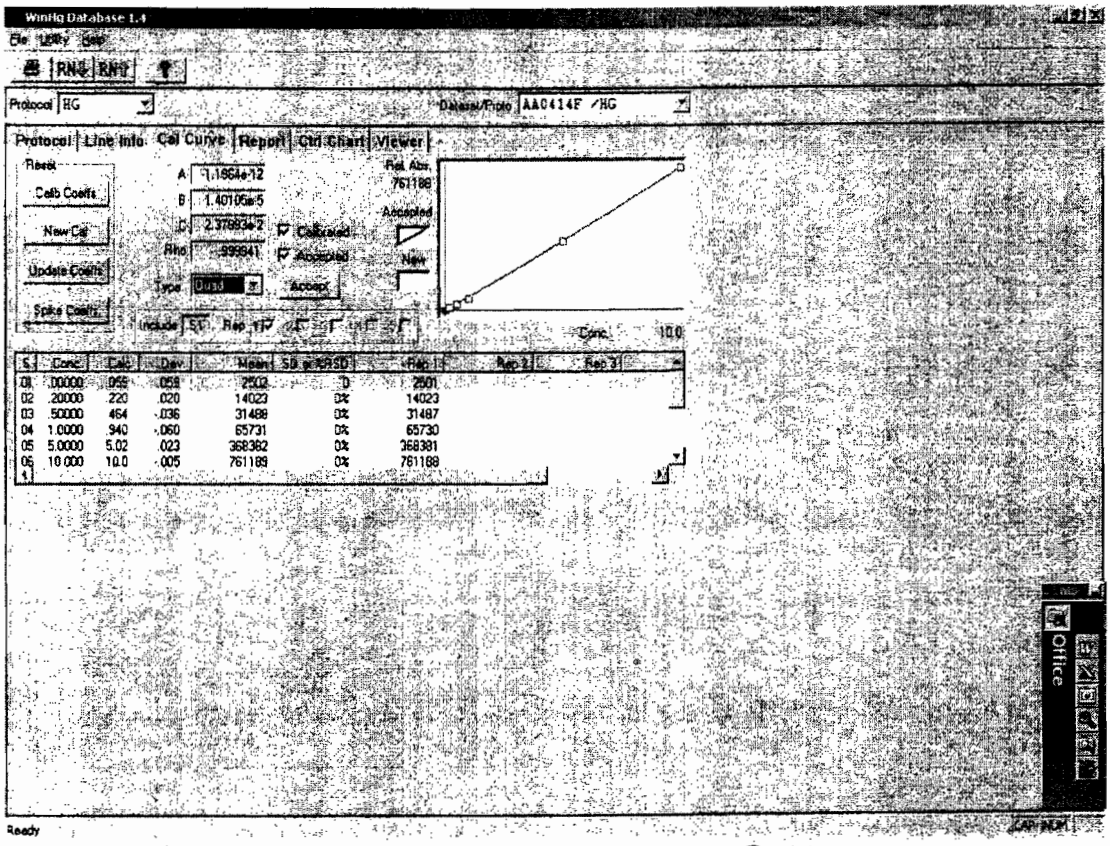
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
1	S0	4/14/2010	17:40:41		1					
2	S0.2	4/14/2010	17:43:04		1					
3	S0.5	4/14/2010	17:45:30		1					
4	S1	4/14/2010	17:48:14		1					
5	S5	4/14/2010	17:50:48		1					
6	S10	4/14/2010	17:53:13		1					
7	ICV	4/14/2010	17:55:37	2.52	1	2.52	ppb	2.5	ppb	100.8%
8	CCB	4/14/2010	17:58:06	0.012	1	0.012	ppb	<0.2	ppb	✓
9	LXXJPB-175	4/14/2010	18:01:11	0.113	1	0.113	ppb			
10	LXXJPC	4/14/2010	18:03:36	1.06	1	1.06	ppb	1		106
11	LXXJPL	4/14/2010	18:06:02	1.07	1	1.07	ppb	1		107
12	LWTKQ	4/14/2010	18:08:28	7.18	1	7.18	ppb			
13	LXTVRB-136	4/14/2010	18:10:58	0.048	1	0.048	ppb			
14	LXTVRC	4/14/2010	18:13:23	1.12	1	1.12	ppb	1		112
15	LW10X	4/14/2010	18:15:56	0.114	1	0.114	ppb			
16	LW10XV	4/14/2010	18:19:02	0.021	5	0.105	ppb			
17	LW10XX	4/14/2010	18:21:40	0.098	1	0.098	ppb			
18	LW10XS	4/14/2010	18:24:08	1.19	1	1.19	ppb	1		107.6
19	CCV	4/14/2010	18:27:12	5.17	1	5.17	ppb	5	ppb	103.4%
20	CCB	4/14/2010	18:29:46	0.041	1	0.041	ppb	<0.2	ppb	✓
21	LW109	4/14/2010	18:32:10	0.101	1	0.101	ppb			
22	LW16F	4/14/2010	18:34:37	0.104	1	0.104	ppb			
23	LW16G	4/14/2010	18:37:05	0.113	1	0.113	ppb			
24	LW74M	4/14/2010	18:39:33	0.097	1	0.097	ppb			
25	LW74R	4/14/2010	18:42:07	0.125	1	0.125	ppb			
26	LXAHG	4/14/2010	18:44:35	0.132	1	0.132	ppb			
27	LXG22	4/14/2010	18:47:04	0.295	1	0.295	ppb			
28	LXG27	4/14/2010	18:49:28	0.26	1	0.26	ppb			
29	LXNLM	4/14/2010	18:51:55	0.115	1	0.115	ppb			
30	LXTV6B-147	4/14/2010	18:54:20	0.071	1	0.071	ppb			
31	CCV	4/14/2010	18:56:48	5.18	1	5.18	ppb	5	ppb	103.6%
32	CCB	4/14/2010	18:59:11	0.029	1	0.029	ppb	<0.2	ppb	✓
33	LXTV6C	4/14/2010	19:01:45	1.02	1	1.02	ppb	1		102
34	LW0QX	4/14/2010	19:04:15	0.181	1	0.181	ppb			
35	LW0QXV	4/14/2010	19:06:43	0.026	5	0.13	ppb			
36	LW0QXS	4/14/2010	19:09:09	1.18	1	1.18	ppb	1		99.9
37	LW0QXD	4/14/2010	19:11:37	1.23	1	1.23	ppb	1		104.9
38	LW26P	4/14/2010	19:14:06	0.099	1	0.099	ppb			
39	~~LW26S~~ LW26PS	4/14/2010	19:16:50	1.15	1	1.15	ppb	1		105.1
40	~~LW26D~~ LW26PD	4/14/2010	19:19:17	1.13	1	1.13	ppb	1		103.1
41	LW27R	4/14/2010	19:21:45	0.115	1	0.115	ppb			
42	LXXMEB-186	4/14/2010	19:24:13	0.118	1	0.118	ppb			
43	CCV	4/14/2010	19:26:37	5.04	1	5.04	ppb	5	ppb	100.8%
44	CCB	4/14/2010	19:29:25	0.05	1	0.05	ppb	<0.2	ppb	✓
45	LXXMEC	4/14/2010	19:32:21	1.08	1	1.08	ppb	1		108
46	LW5QD	4/14/2010	19:34:57	0.126	1	0.126	ppb			
47	LW5QDV	4/14/2010	19:37:22	0.037	5	0.185	ppb			

VD 4-14-10

LOT # FAD0495 Analyst: VD

Reviewed by: K

Analytical Runlog for Mercury Analysis										
Run #: AA0414F										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
48	LW5QDS	4/14/2010	19:39:57	1.13	1	1.13	ppb	1		100.4
49	LW5QDD	4/14/2010	19:42:23	1.09	1	1.09	ppb	1		96.4
50	LW5QH	4/14/2010	19:44:59	0.135	1	0.135	ppb			
51	LW5QK	4/14/2010	19:48:04	0.104	1	0.104	ppb			
52	LW5QP	4/14/2010	19:50:31	0.108	1	0.108	ppb			
53	LW6EE	4/14/2010	19:53:01	0.275	1	0.275	ppb			
54	LW6EH	4/14/2010	19:55:25	0.266	1	0.266	ppb			
55	CCV	4/14/2010	19:58:00	4.96	1	4.96	ppb	5	ppb	99.2%
56	CCB	4/14/2010	20:00:44	0.067	1	0.067	ppb	<0.2	ppb	✓
57	LW6EL	4/14/2010	20:03:13	0.161	1	0.161	ppb			
58	LW6EN	4/14/2010	20:05:42	0.175	1	0.175	ppb			
59	LW6EQ	4/14/2010	20:08:07	0.162	1	0.162	ppb			
60	LW6ET	4/14/2010	20:11:04	0.148	1	0.148	ppb			
61	LW7EE	4/14/2010	20:13:42	0.135	1	0.135	ppb			
62	LW7EG	4/14/2010	20:16:30	0.142	1	0.142	ppb			
63	LW7EH	4/14/2010	20:18:54	0.103	1	0.103	ppb			
64	LW7EK	4/14/2010	20:21:20	0.128	1	0.128	ppb			
65	LXG19	4/14/2010	20:23:45	0.124	1	0.124	ppb			
66	LXG4Q	4/14/2010	20:26:12	0.129	1	0.129	ppb			
67	CCV	4/14/2010	20:28:37	4.97	1	4.97	ppb	5	ppb	99.4%
68	CCB	4/14/2010	20:31:00	0.046	1	0.046	ppb	<0.2	ppb	✓
69	LXG5C	4/14/2010	20:33:25	0.142	1	0.142	ppb			
70	LXG5E	4/14/2010	20:36:15	0.137	1	0.137	ppb			
71	LXG5G	4/14/2010	20:38:53	0.137	1	0.137	ppb			
72	LXG5K	4/14/2010	20:41:30	0.097	1	0.097	ppb			
73	LXXMJB-187	4/14/2010	20:43:57	0.105	1	0.105	ppb			
74	LXXMJC	4/14/2010	20:46:23	0.998	1	0.998	ppb	1		99.8
75	LW2XV	4/14/2010	20:48:49	0.152	1	0.152	ppb			
76	LW2XVV	4/14/2010	20:51:13	0.045	5	0.225	ppb			
77	LW2XVS	4/14/2010	20:53:59	0.989	1	0.989	ppb	1		83.7
78	LW2XVD	4/14/2010	20:56:29	1.14	1	1.14	ppb	1		98.8
79	CCV	4/14/2010	20:58:56	4.95	1	4.95	ppb	5	ppb	99.0%
80	CCB	4/14/2010	21:01:22	0.018	1	0.018	ppb	<0.2	ppb	✓
81	LXKEE	4/14/2010	21:04:08	0.118	1	0.118	ppb			
82	LXMEQ	4/14/2010	21:06:44	0.112	1	0.112	ppb			
83	LXME1	4/14/2010	21:09:09	0.097	1	0.097	ppb			
84	CCV	4/14/2010	21:11:40	4.86	1	4.86	ppb	5	ppb	97.2%
85	CCB	4/14/2010	21:14:03	0.028	1	0.028	ppb	<0.2	ppb	✓



S	Conc	Calc	Dev	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.059	.059	2502	0	2501		
02	.20000	.220	.020	14023	0%	14023		
03	.50000	.464	-.036	31488	0%	31487		
04	1.0000	.940	-.060	65731	0%	65730		
05	5.0000	5.02	.023	368382	0%	368381		
06	10.000	10.0	-.005	761189	0%	761188		

LQuity
7470A 04-14-10
Hg041410

Rho 0.999941

Folder: AA0414F Page 1
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       17:40:41 14 Apr 10   HG

Hg    .000    ppb      2501                                                =

*** Standard: 2 Rep: 1              Seq:  2       17:43:04 14 Apr 10   HG

Hg    .200    ppb      14023                                               =

*** Standard: 3 Rep: 1              Seq:  3       17:45:30 14 Apr 10   HG

Hg    .500    ppb      31487                                               =

*** Standard: 4 Rep: 1              Seq:  4       17:48:14 14 Apr 10   HG

Hg    1.00    ppb      65730                                               =

*** Standard: 5 Rep: 1              Seq:  5       17:50:48 14 Apr 10   HG

Hg    5.00    ppb      368381                                              =

*** Standard: 6 Rep: 1              Seq:  6       17:53:13 14 Apr 10   HG

Hg    10.0    ppb      761188                                              =

*** Check Standard: 4  Ck4ICV       Seq:  7       17:55:37 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     2.52    2.50  ppb         .000                       =

*** Check Standard: 1  Ck1CCB       Seq:  8       17:58:06 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .012     .200     ppb        .000                             =

*** Sample ID: LXXJPB-175 AA0414F    Seq:  9       18:01:11 14 Apr 10   HG

Hg    .113    ppb       .000      .113                                    =
=============================================================================
*** Sample ID: LXXJPC     AA0414F    Seq:  10      18:03:36 14 Apr 10   HG

Hg    1.06    ppb       .000      1.06                                    =
=============================================================================
*** Sample ID: LXXJPL     AA0414F    Seq:  11      18:06:02 14 Apr 10   HG

Hg    1.07    ppb       .000      1.07                                    =
=============================================================================
```

LDuty
7470A 4-14-2010
Hg041410

Folder: AA0414F Page 2
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LWTKQ      AA0414F    Seq:  12     18:08:28 14 Apr 10   HG

Hg    7.18    ppb       .000      7.18
                                                                          =
=============================================================================
*** Sample ID: LXTVRB-136 AA0414F    Seq:  13     18:10:58 14 Apr 10   HG

Hg    .048    ppb       .000      .048
                                                                          =
=============================================================================
*** Sample ID: LXTVRC     AA0414F    Seq:  14     18:13:23 14 Apr 10   HG

Hg    1.12    ppb       .000      1.12
                                                                          =
=============================================================================
*** Sample ID: LW10X      AA0414F    Seq:  15     18:15:56 14 Apr 10   HG

Hg    .114    ppb       .000      .114
                                                                          =
=============================================================================
*** Sample ID: LW10XV     AA0414F    Seq:  16     18:19:02 14 Apr 10   HG
                           5X
Hg    .021    ppb       .000      .021
                                                                          =
=============================================================================
*** Sample ID: LW10XX     AA0414F    Seq:  17     18:21:40 14 Apr 10   HG

Hg    .098    ppb       .000      .098
                                                                          =
=============================================================================
*** Sample ID: LW10XS     AA0414F    Seq:  18     18:24:08 14 Apr 10   HG

Hg    1.19    ppb       .000      1.19
                                                                          =
*** Check Standard: 2  Ck2CCV       Seq:  19     18:27:12 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.17    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB       Seq:  20     18:29:46 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .041     .200     ppb        .000
                                                                          =
*** Sample ID: LW109      AA0414F    Seq:  21     18:32:10 14 Apr 10   HG

Hg    .101    ppb       .000      .101
                                                                          =
=============================================================================
```

Folder: AA0414F Page 3
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW16F      AA0414F    Seq:  22     18:34:37 14 Apr 10   HG

Hg    .104    ppb       .000      .104
                                                                        =
=============================================================================
*** Sample ID: LW16G      AA0414F    Seq:  23     18:37:05 14 Apr 10   HG

Hg    .113    ppb       .000      .113
                                                                        =
=============================================================================
*** Sample ID: LW74M      AA0414F    Seq:  24     18:39:33 14 Apr 10   HG

Hg    .097    ppb       .000      .097
                                                                        =
=============================================================================
*** Sample ID: LW74R      AA0414F    Seq:  25     18:42:07 14 Apr 10   HG

Hg    .125    ppb       .000      .125
                                                                        =
=============================================================================
*** Sample ID: LXAHG      AA0414F    Seq:  26     18:44:35 14 Apr 10   HG

Hg    .132    ppb       .000      .132
                                                                        =
=============================================================================
*** Sample ID: LXG22      AA0414F    Seq:  27     18:47:04 14 Apr 10   HG

Hg    .295    ppb       .000      .295
                                                                        =
=============================================================================
*** Sample ID: LXG27      AA0414F    Seq:  28     18:49:28 14 Apr 10   HG

Hg    .260    ppb       .000      .260
                                                                        =
=============================================================================
*** Sample ID: LXNLM      AA0414F    Seq:  29     18:51:55 14 Apr 10   HG

Hg    .115    ppb       .000      .115
                                                                        =
=============================================================================
*** Sample ID: LXTV6B-147 AA0414F    Seq:  30     18:54:20 14 Apr 10   HG

Hg    .071    ppb       .000      .071
                                                                        =
*** Check Standard: 2  Ck2CCV       Seq:  31     18:56:48 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units     SD/RSD
Hg          104.     5.18    5.00  ppb        .000
                                                                        =
```

Folder: AA0414F Page 4
Protocol: HG
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1CCB Seq: 32 18:59:11 14 Apr 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.029	.200	ppb	.000

*** Sample ID: LXTV6C AA0414F Seq: 33 19:01:45 14 Apr 10 HG

Hg	1.02	ppb	.000	1.02

*** Sample ID: LW0QX AA0414F Seq: 34 19:04:15 14 Apr 10 HG

Hg	.181	ppb	.000	.181

*** Sample ID: LW0QXV AA0414F Seq: 35 19:06:43 14 Apr 10 HG
5X

Hg	.026	ppb	.000	.026

*** Sample ID: LW0QXS AA0414F Seq: 36 19:09:09 14 Apr 10 HG

Hg	1.18	ppb	.000	1.18

*** Sample ID: LW0QXD AA0414F Seq: 37 19:11:37 14 Apr 10 HG

Hg	1.23	ppb	.000	1.23

*** Sample ID: ~~LW26P~~ AA0414F Seq: 38 19:14:06 14 Apr 10 HG
LW26P 04-15-2010

Hg	.099	ppb	.000	.099

*** Sample ID: ~~LW26S~~ AA0414F Seq: 39 19:16:50 14 Apr 10 HG
LW26PS 04-15-2010

Hg	1.15	ppb	.000	1.15

*** Sample ID: ~~LW26D~~ AA0414F Seq: 40 19:19:17 14 Apr 10 HG
LW26PD 04-16-2010

Hg	1.13	ppb	.000	1.13

*** Sample ID: LW27R AA0414F Seq: 41 19:21:45 14 Apr 10 HG

Hg	.115	ppb	.000	.115

Folder: AA0414F Page 5
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXXMEB-186 AA0414F    Seq:  42     19:24:13 14 Apr 10   HG

Hg    .118    ppb       .000      .118
                                                                          =
*** Check Standard: 2  Ck2CCV       Seq:  43     19:26:37 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.04    5.00  ppb        .000
                                                                          =
*** Check Standard: 1  Ck1CCB       Seq:  44     19:29:25 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .050     .200     ppb        .000
                                                                          =
*** Sample ID: LXXMEC     AA0414F    Seq:  45     19:32:21 14 Apr 10   HG

Hg    1.08    ppb       .000      1.08
                                                                          =
=============================================================================
*** Sample ID: LW5QD      AA0414F    Seq:  46     19:34:57 14 Apr 10   HG

Hg    .126    ppb       .000      .126
                                                                          =
=============================================================================
*** Sample ID: LW5QDV     AA0414F    Seq:  47     19:37:22 14 Apr 10   HG
                           5X
Hg    .037    ppb       .000      .037
                                                                          =
=============================================================================
*** Sample ID: LW5QDS     AA0414F    Seq:  48     19:39:57 14 Apr 10   HG

Hg    1.13    ppb       .000      1.13
                                                                          =
=============================================================================
*** Sample ID: LW5QDD     AA0414F    Seq:  49     19:42:23 14 Apr 10   HG

Hg    1.09    ppb       .000      1.09
                                                                          =
=============================================================================
*** Sample ID: LW5QH      AA0414F    Seq:  50     19:44:59 14 Apr 10   HG

Hg    .135    ppb       .000      .135
                                                                          =
=============================================================================
*** Sample ID: LW5QK      AA0414F    Seq:  51     19:48:04 14 Apr 10   HG

Hg    .104    ppb       .000      .104
                                                                          =
=============================================================================
```

Folder: AA0414F Page 6
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW5QP      AA0414F    Seq:  52     19:50:31 14 Apr 10   HG

Hg    .108    ppb       .000      .108
                                                                        =
=============================================================================
*** Sample ID: LW6EE      AA0414F    Seq:  53     19:53:01 14 Apr 10   HG

Hg    .275    ppb       .000      .275
                                                                        =
=============================================================================
*** Sample ID: LW6EH      AA0414F    Seq:  54     19:55:25 14 Apr 10   HG

Hg    .266    ppb       .000      .266
                                                                        =
*** Check Standard: 2  Ck2CCV       Seq:  55     19:58:00 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.1     4.96    5.00  ppb         .000
                                                                        =
*** Check Standard: 1  Ck1CCB       Seq:  56     20:00:44 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .067     .200     ppb        .000
                                                                        =
*** Sample ID: LW6EL      AA0414F    Seq:  57     20:03:13 14 Apr 10   HG

Hg    .161    ppb       .000      .161
                                                                        =
=============================================================================
*** Sample ID: LW6EN      AA0414F    Seq:  58     20:05:42 14 Apr 10   HG

Hg    .175    ppb       .000      .175
                                                                        =
=============================================================================
*** Sample ID: LW6EQ      AA0414F    Seq:  59     20:08:07 14 Apr 10   HG

Hg    .162    ppb       .000      .162
                                                                        =
=============================================================================
*** Sample ID: LW6ET      AA0414F    Seq:  60     20:11:04 14 Apr 10   HG

Hg    .148    ppb       .000      .148
                                                                        =
=============================================================================
*** Sample ID: LW7EE      AA0414F    Seq:  61     20:13:42 14 Apr 10   HG

Hg    .135    ppb       .000      .135
                                                                        =
=============================================================================
```

Folder: AA0414F Page 7
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LW7EG      AA0414F    Seq:  62     20:16:30 14 Apr 10   HG

Hg    .142    ppb       .000      .142
                                                                          =
=============================================================================
*** Sample ID: LW7EH      AA0414F    Seq:  63     20:18:54 14 Apr 10   HG

Hg    .103    ppb       .000      .103
                                                                          =
=============================================================================
*** Sample ID: LW7EK      AA0414F    Seq:  64     20:21:20 14 Apr 10   HG

Hg    .128    ppb       .000      .128
                                                                          =
=============================================================================
*** Sample ID: LXG19      AA0414F    Seq:  65     20:23:45 14 Apr 10   HG

Hg    .124    ppb       .000      .124
                                                                          =
=============================================================================
*** Sample ID: LXG4Q      AA0414F    Seq:  66     20:26:12 14 Apr 10   HG

Hg    .129    ppb       .000      .129
                                                                          =
*** Check Standard: 2  Ck2CCV       Seq:  67     20:28:37 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.4     4.97    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1CCB       Seq:  68     20:31:00 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .046     .200     ppb        .000
                                                                          =
*** Sample ID: LXG5C      AA0414F    Seq:  69     20:33:25 14 Apr 10   HG

Hg    .142    ppb       .000      .142
                                                                          =
=============================================================================
*** Sample ID: LXG5E      AA0414F    Seq:  70     20:36:15 14 Apr 10   HG

Hg    .137    ppb       .000      .137
                                                                          =
=============================================================================
*** Sample ID: LXG5G      AA0414F    Seq:  71     20:38:53 14 Apr 10   HG

Hg    .137    ppb       .000      .137
                                                                          =
=============================================================================
```

Folder: AA0414F Page 8
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXG5K      AA0414F    Seq:  72     20:41:30 14 Apr 10   HG

Hg    .097    ppb       .000      .097
                                                                        =
=============================================================================
*** Sample ID: LXXMJB-187 AA0414F    Seq:  73     20:43:57 14 Apr 10   HG

Hg    .105    ppb       .000      .105
                                                                        =
=============================================================================
*** Sample ID: LXXMJC     AA0414F    Seq:  74     20:46:23 14 Apr 10   HG

Hg    .998    ppb       .000      .998
                                                                        =
=============================================================================
*** Sample ID: LW2XV      AA0414F    Seq:  75     20:48:49 14 Apr 10   HG

Hg    .152    ppb       .000      .152
                                                                        =
=============================================================================
*** Sample ID: LW2XVV     AA0414F    Seq:  76     20:51:13 14 Apr 10   HG
                           5X
Hg    .045    ppb       .000      .045
                                                                        =
=============================================================================
*** Sample ID: LW2XVS     AA0414F    Seq:  77     20:53:59 14 Apr 10   HG

Hg    .989    ppb       .000      .989
                                                                        =
=============================================================================
*** Sample ID: LW2XVD     AA0414F    Seq:  78     20:56:29 14 Apr 10   HG

Hg    1.14    ppb       .000     1.14
                                                                        =
*** Check Standard: 2  Ck2CCV       Seq:  79     20:58:56 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.0     4.95    5.00   ppb        .000
                                                                        =
*** Check Standard: 1  Ck1CCB       Seq:  80     21:01:22 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .018     .200     ppb        .000
                                                                        =
*** Sample ID: LXKEE      AA0414F    Seq:  81     21:04:08 14 Apr 10   HG

Hg    .118    ppb       .000      .118
                                                                        =
=============================================================================
```

Folder: AA0414F Page 9
Protocol: HG
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: LXMEQ      AA0414F    Seq:  82     21:06:44 14 Apr 10   HG

Hg    .112    ppb       .000      .112
                                                                        =
=============================================================================
*** Sample ID: LXME1      AA0414F    Seq:  83     21:09:09 14 Apr 10   HG

Hg    .097    ppb       .000      .097
                                                                        =
*** Check Standard: 2  Ck2CCV       Seq:  84     21:11:40 14 Apr 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.2     4.86    5.00  ppb         .000
                                                                        =
*** Check Standard: 1  Ck1CCB       Seq:  85     21:14:03 14 Apr 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .028     .200     ppb        .000
                                                                        =
```

METALS MISCELLANEOUS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Metals Prep Report for Batch # 0099286

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045

Prep Method: SW-846 6020, Water 2% **SOP Number:** ST-IP-0013

Extraction Code: GJ **Extraction:** TOTAL **Matrix:** WATER **Prep Date:** 4/9/2010

Standard Log Ref#: MET-04/10-H2O

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location
F0D030450-001	LXHVE	50 mL	50 mL	☐	04/21/2010	METS
F0D030450-001S	LXHVES	50 mL	50 mL	☐		METS
F0D030450-001X	LXHVEX	50 mL	50 mL	☐		METS
F0D030451-004	LXHVL	50 mL	50 mL	☐	04/21/2010	2-13,METS
F0D030451-004S	LXHVL	50 mL	50 mL	☐		2-13,METS
F0D080495-008	LXNLM	50 mL	50 mL	☐	04/16/2010	2-57/59,METS
F0D090000-286B	LXRAEB	50 mL	50 mL	☐		
F0D090000-286C	LXRAEC	50 mL	50 mL	☐		

Target List
AG
AL
AS
BA
BE
CA
CD
CO
CR
CU
FE
K
MG
MN
NA
NI
PB
SB
SE
TL
U
V
ZN

Comments:

Chemical Lot Information

Chemical	Lot Number
Hydrochloric Acid	H42A18
Nitric Acid	H51022

Custody Information

Relinquished By: CS
Review/Received By:
Date of Transfer: 4-12-10

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mercury Prep Report for Batch # 0102136

TestAmerica - St. Louis
13715 Rider Trail North
Earth City, MO 63045

Prep Method: SW-846 7470A **SOP Number:** ST-MT-0005

Extraction Code: 19 **Extraction:** TOTAL **Matrix:** WATER **Prep Date:** 4/14/2010

Time In: 2:00 **Temp In:** 95 C

Time Out: 4:00 **Temp Out:** 98 C **Standard Log Ref#:** hg041410

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location
F0C230560-005	LW10X	30 mL	30 mL	☐	04/14/2010	3-157,METS
F0C230560-005S	LW10XS	30 mL	30 mL	☐		3-157,METS
F0C230560-005X	LW10XX	30 mL	30 mL	☐		3-157,METS
F0C230560-007	LW109	30 mL	30 mL	☐	04/14/2010	3-157,METS
F0C230593-005	LW16F	30 mL	30 mL	☐	04/14/2010	METS,3-135
F0C230593-006	LW16G	30 mL	30 mL	☐	04/14/2010	METS,3-135
F0C270450-001	LW74M	30 mL	30 mL	☐	04/14/2010	METS
F0C270450-002	LW74R	30 mL	30 mL	☐	04/14/2010	METS
F0C300511-001	LXAHG	30 mL	30 mL	☐	04/16/2010	1-92,METS
F0D020521-002	LXG22	30 mL	30 mL	☐	04/14/2010	1-155/156
F0D020521-003	LXG27	30 mL	30 mL	☐	04/14/2010	1-155/156
F0D080495-008	LXNLM	30 mL	30 mL	☐	04/16/2010	2-57/59,METS
F0D120000-136B	LXTVRB	30 mL	30 mL	☐		
F0D120000-136C	LXTVRC	30 mL	30 mL	☐		

Comments:

Custody Information

Relinquished By: UD
Review/Received By: UD
Date of Transfer: 4-14-2010

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

WET CHEMISTRY

(ALPHABETICALLY BY ANALYSIS)

RQC050 TestAmerica Laboratories, Inc. Run Date: 4/14/10
WET CHEM BATCHSHEET Time: 8:55:10

TestAmerica St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: WM Moisture, Percent (160.3)
QC BATCH #: **0102368** INITIALS: DATA ENTRY:
PREP DATE: 4/13/10 PREP JS INITIALS JS
COMP DATE: 4/14/10 ANAL JS DATE 04/14/10
USER: SWANJ

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LXNJ9-1-AC	F-0D080489-001	XX A 88 WM 01	Y-D		RE12-10-15444
LXNJ9-1-AL	F-0D080489-001-X	XX A 88 WM 01	Y-D		RE12-10-15444 DUP
LXNKC-1-AC	F-0D080489-002	XX A 88 WM 01	Y-D		RE12-10-15443
LXNKE-1-AC	F-0D080489-003	XX A 88 WM 01	Y-D		RE12-10-15442
LXNKG-1-AC	F-0D080489-004	XX A 88 WM 01	Y-D		RE12-10-15448
LXNKH-1-AC	F-0D080489-005	XX A 88 WM 01	Y-D		RE12-10-15446
LXNKJ-1-AC	F-0D080489-006	XX A 88 WM 01	Y-D		RE12-10-15445
LXNKL-1-AC	F-0D080489-007	XX A 88 WM 01	Y-D		RE12-10-15447
LXNKX-1-AC	F-0D080495-001	XX A 88 WM 01	Y-D		RE12-10-15444
LXNK6-1-AL	F-0D080495-002	XX A 88 WM 01	Y-D		RE12-10-15443
LXNK8-1-AL	F-0D080495-003	XX A 88 WM 01	Y-D		RE12-10-15442
LXNLC-1-AL	F-0D080495-004	XX A 88 WM 01	Y-D		RE12-10-15448
LXNLE-1-AL	F-0D080495-005	XX A 88 WM 01	Y-D		RE12-10-15446
LXNLH-1-AL	F-0D080495-006	XX A 88 WM 01	Y-D		RE12-10-15445
LXNLK-1-AL	F-0D080495-007	XX A 88 WM 01	Y-D		RE12-10-15447

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0102368**

Date 4/14/2010
Time 9:55:06

Method Code: **WM Moisture, Percent (160.3)**
Analyst: **Jennifer Swan**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LXNJ9-1-AC	17.07	%	0.1	04/13-04/14/10	17.63	N		17.1	0.10	1.00
LXNJ9-1-AL	17.63	%	0.1	04/13-04/14/10	17.63	N		17.6	0.10	1.00
LXNKC-1-AC	15.53	%	0.1	04/13-04/14/10	15.53	N		15.5	0.10	1.00
LXNKE-1-AC	14.36	%	0.1	04/13-04/14/10	14.36	N		14.4	0.10	1.00
LXNKG-1-AC	14.85	%	0.1	04/13-04/14/10	14.85	N		14.8	0.10	1.00
LXNKH-1-AC	6.15	%	0.1	04/13-04/14/10	6.15	N		6.2	0.10	1.00
LXNKJ-1-AC	13.98	%	0.1	04/13-04/14/10	13.98	N		14.0	0.10	1.00
LXNKL-1-AC	3.31	%	0.1	04/13-04/14/10	3.31	N		3.3	0.10	1.00
LXNKX-1-AC	17.07	%	0.1	04/13-04/14/10	17.07	N		17.1	0.10	1.00
LXNK6-1-AL	15.53	%	0.1	04/13-04/14/10	15.53	N		15.5	0.10	1.00
LXNK8-1-AL	14.36	%	0.1	04/13-04/14/10	14.36	N		14.4	0.10	1.00
LXNLC-1-AL	14.85	%	0.1	04/13-04/14/10	14.85	N		14.8	0.10	1.00
LXNLE-1-AL	6.15	%	0.1	04/13-04/14/10	6.15	N		6.2	0.10	1.00
LXNLH-1-AL	13.98	%	0.1	04/13-04/14/10	13.98	N		14.0	0.10	1.00
LXNLK-1-AL	3.31	%	0.1	04/13-04/14/10	3.31	N		3.3	0.10	1.00

Notes:

JS 04/14/10

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

sheet1

t

TestAmerica St. Louis Laboratory
Percent Total Solid/Percent Moisture Logsheet

Analysis: %Moisture Time In: 7:10 Temp: 103.0 Batch: 102368

Prep Date: 04/13/10 Time Out:* 6:00 Temp: 103°C Analyst: SDB / JS

Anal Date: 04/14/10 * if less than 12 hours, complete page 2 of this spreadsheet Reviewed By:

Balance 1 SN: 1123051741 Oven ID: DKN812 SOP: ST-WC-0036

Pan Number	Sample Id	Pan wt	Wet Sam + Pan g	Dry Sam + Pan wt	Results % Solids	Results % Moisture	Comments
1	LXNJ91AC	1.3331	11.2444	9.5525	82.93	17.07	
2	LXNJ91AL	1.3329	16.5133	13.8367	82.37	17.63	
3	LXNKC1AC	1.3384	8.5963	7.4693	84.47	15.53	
4	LXNKE1AC	1.3326	10.5363	9.2146	85.64	14.36	
5	LXNKG1AC	1.3241	9.4050	8.2051	85.15	14.85	
6	LXNKH1AC	1.3201	11.5128	10.8859	93.85	6.15	
7	LXNKJ1AC	1.3255	10.6743	9.3674	86.02	13.98	
8	LXNKL1AC	1.3140	9.7322	9.4533	96.69	3.31	
9	LXNKX1AC	1.3331	11.2444	9.5525	82.93	17.07	LXNJ91AC
10	LXNK61AL	1.3384	8.5963	7.4693	84.47	15.53	LXNKC1AC
11	LXNK81AL	1.3326	10.5363	9.2146	85.64	14.36	LXNKE1AC
12	LXNLC1AL	1.3241	9.4050	8.2051	85.15	14.85	LXNKG1AC
13	LXNLE1AL	1.3201	11.5128	10.8859	93.85	6.15	LXNKH1AC
14	LXNLH1AL	1.3255	10.6743	9.3674	86.02	13.98	LXNKJ1AC
15	LXNLK1AL	1.3140	9.7322	9.4533	96.69	3.31	LXNKL1AC
16							
17							
18							
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20							
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32							
33							
34							

RQC050 TestAmerica Laboratories, Inc. Run Date: 4/16/10
WET CHEM BATCHSHEET Time: 14:54:55

TestAmerica St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total

QC BATCH #: **0102167** INITIALS: DATA ENTRY:
PREP DATE: 4/16/10 PREP INITIALS
COMP DATE: 4/16/10 ANAL DATE 04-16-10
USER: LAMBERTC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LXNLM-1-A6	F-0D080495-008	XX I 06 QP 9A	Y-D		RE12-10-15449
LXNLM-1-A9	F-0D080495-008-S	XX I 06 QP 9A	Y-D		RE12-10-15449
LXNLM-1-CA	F-0D080495-008-X	XX I 06 QP 9A	Y-D		RE12-10-15449 DUP
LX4C5-1-AA	F-0D120000-167-B	XX I 06 QP 9A			INTRA-LAB BLANK
LX4C5-1-AC	F-0D120000-167-C	XX I 06 QP 9A			INTRA-LAB CHECK
LX4C5-1-AD	F-0D120000-167-C	XX I 06 QP 9A			INTRA-LAB CHECK

Control Limits

(75-125)

(80-120)

(80-120)

CWK 4-16-10

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0102167**

Date 4/16/2010
Time 16:04:59

Method Code: **Cyanide, Total**
Analyst: **Chenise Lambert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LXNLM-1-A6	ND	ug/L	5	04/16/10	.00	N		ND	5.0	1.00
LXNLM-1-CA	ND	ug/L	5	04/16/10	.00	N		ND	5.0	1.00
LX4C5-1-AA	ND	ug/L	5	04/16/10	.00			ND	5.0	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LX4C5-1-AC		200	189.42	94.71	04/16/10	(80-120)	1.00
LX4C5-1-AD		400	374.77	93.69	04/16/10	(80-120)	1.00

Notes:

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
LXNLM-1-A9		ND	200	195.72	97.86	04/16/10	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

TestAmerica St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CL

Batch No.: 102167

Page: 1 of: 1

Prep Date: 4/16/2010

Analysis Filename: CN41610A

Analysis Date: 4/16/2010

Instrument ID: TRAACS #1

				Sample Volume		Scrubber		Final Concentration as CN			
Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Liter	Gram	Volume, L	Combined Prep Factor	ug/L	mg/Kg *	Percent Recovery	RPD
BLK		0	1	0.006		0.006	1.000	0			
LCS	200	189.42	1	0.006		0.006	1.000	189.42			
HCS	400	374.77	1	0.006		0.006	1.000	374.77			
LXNLM		1.29	1	0.006		0.006	1.000	1.29			
LXNLM-X		0	1	0.006		0.006	1.000	0			
LXNLM-S		195.72	1	0.006		0.006	1.000	195.72			
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
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Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

SOP	Rev	Date
STL-WC-0002	#VALUE!	#VALUE!

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide 0102167BHMWCL, modified 10/16/06

Page: 1

Order of Fit: First
Coefs: 1st: -1.043379 2nd: 10.067686

Report Date: 4/16/10
Analysis Date: 4/16/10
Data File: CN41610A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999731
Corr: 0.999865
Std. Dev.: 3.432859

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			489.41		14:15:10
2	W			1.62	I	14:16:25
3	S1			0.00	szI	14:17:40
4	S2			5.26/5	s	14:18:56
5	S3			19.99/20	s	14:20:11
6	S4			97.16/100	s	14:21:26
7	S5			254.73/250	s	14:22:41
8	S6			302.65/300	s	14:23:56
9	S7			394.33/400	s	14:25:11
10	S8			501.01/500	s	14:26:26
11	ICV			206.70/200		14:27:41
12	ICB			0.65	I	14:28:56
13	BLK 0102167			0.00	zRI	14:30:11
14	LCS			189.42/200		14:31:27
15	HCS			374.77/400		14:32:42
16	LXNLM			1.29	I	14:33:57
17	LXNLM-X			0.00	-zRI	14:35:12
18	LXNLM-S			195.72		14:36:27
19	CCV			252.48/250		14:37:42
20	CCB			0.00	zRI	14:38:57
21	BLK 1			3.88		14:40:12
22	BLK 2			2.87		14:41:29
23	BLK 3			4.08	I	14:42:43
24	LCS			187.95		14:43:58
25	HCS			391.74		14:45:13
26	LXNLM			6.47		14:46:28
27	LXNLM-X			2.76	I	14:47:43
28	LXNLM-S			193.76		14:48:59
29	CCV			257.17/250		14:50:14
30	CCB			0.00	zI	14:51:29
31	END			0.00	-zRI	14:52:44

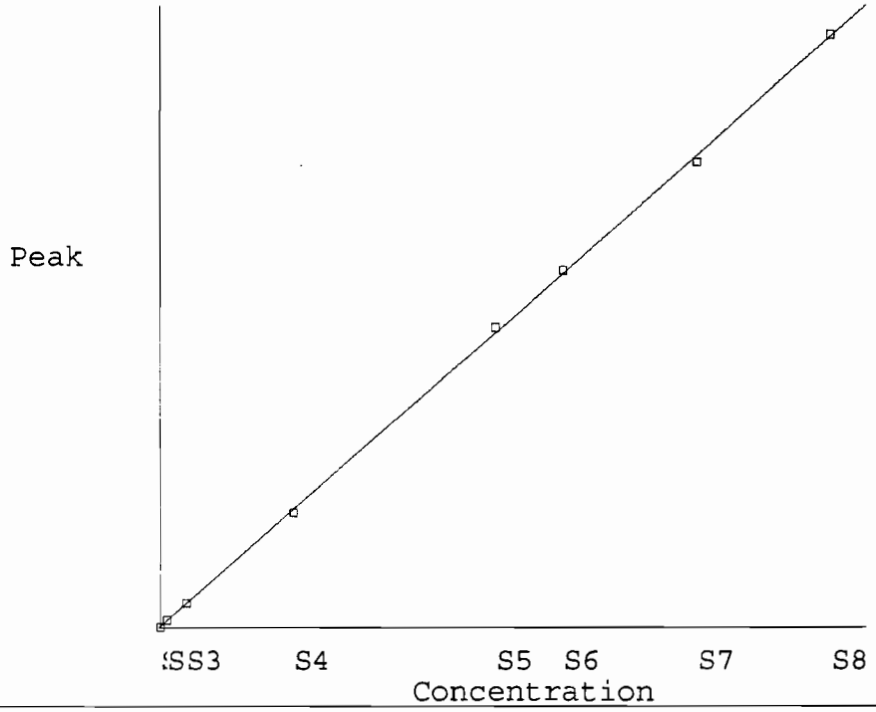
TestAmerica St. Louis

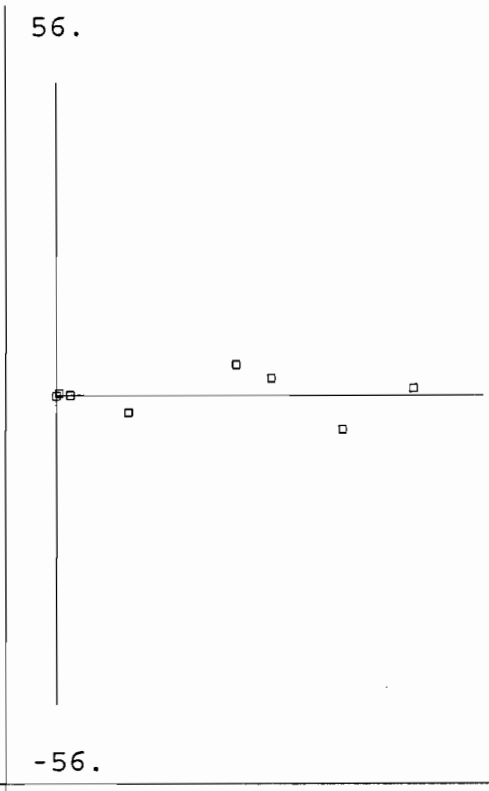
4/16/10 15:02 Standard Set #1.

Data File: CN41610A

Method File: CYANIDE

Sample Table File: CN41610A





S#	Peak	Value	Calc	Residual
S1	0.09	0.00	-0.13	-0.13
S2	0.63	5.00	5.26	0.26
S3	2.09	20.00	19.99	-0.01
S4	9.75	100.00	97.16	-2.84
S5	25.41	250.00	254.73	4.73
S6	30.17	300.00	302.65	2.65
S7	39.27	400.00	394.33	-5.67
S8	49.87	500.00	501.01	1.01

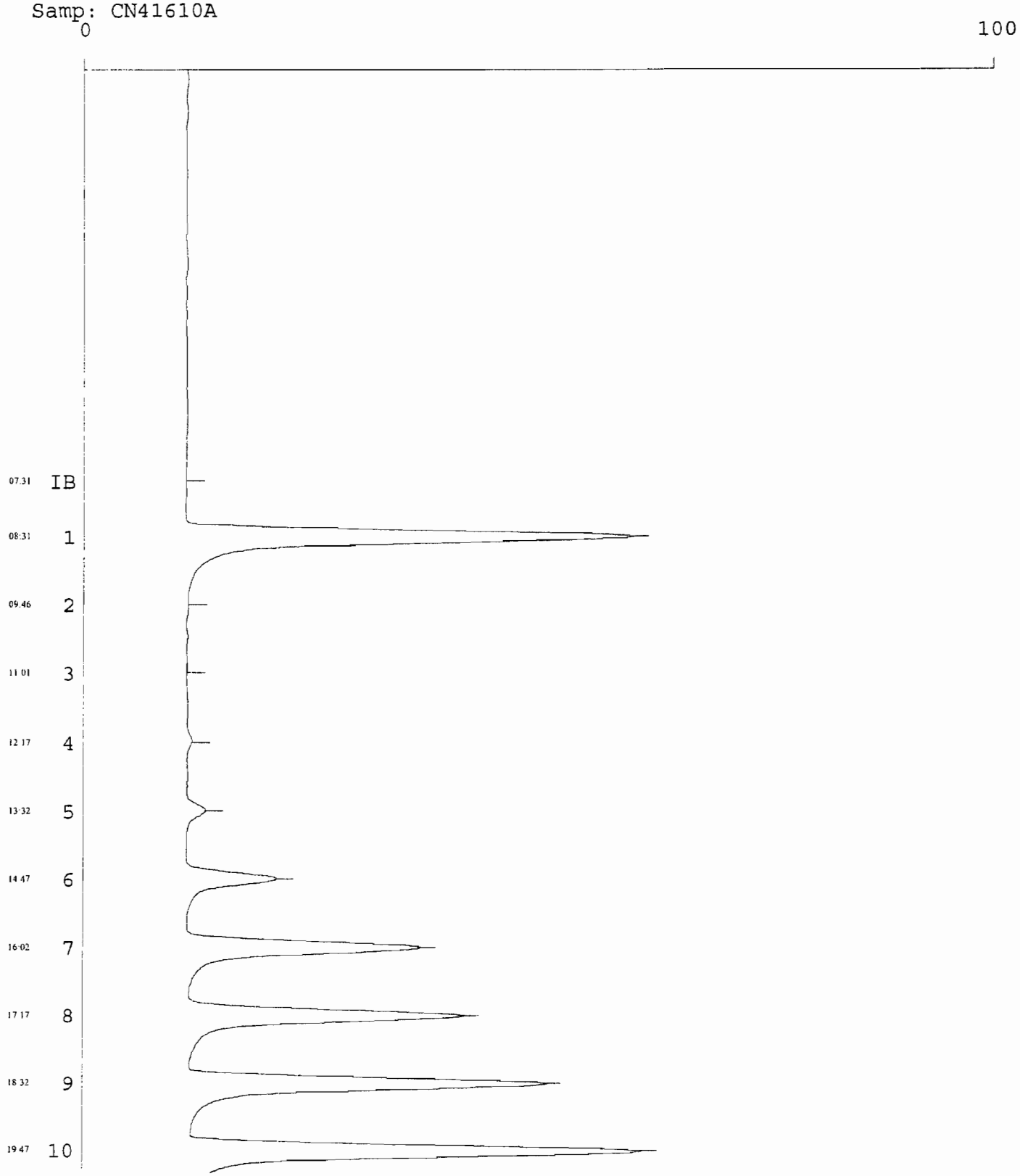
Coefficients:

Intercept :	-1.04338
Slope :	10.0677
Std Dev :	3.43286
Corr Coef :	0.999865
R^2 :	0.999731

4/16/2010 15:02

Page:1

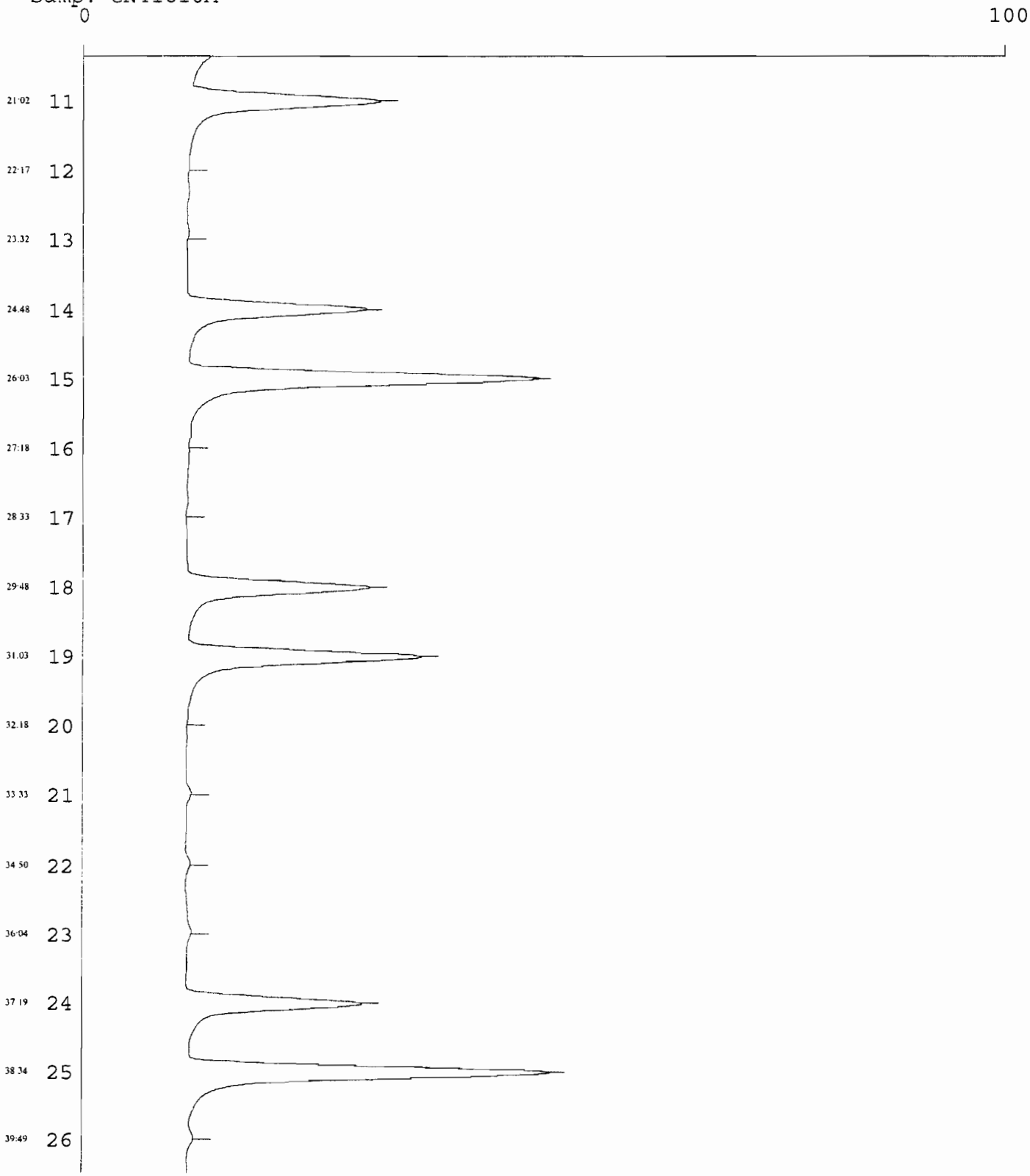
Data: CN41610A
Mthd: CYANIDE
Samp: CN41610A



4/16/2010 15:02

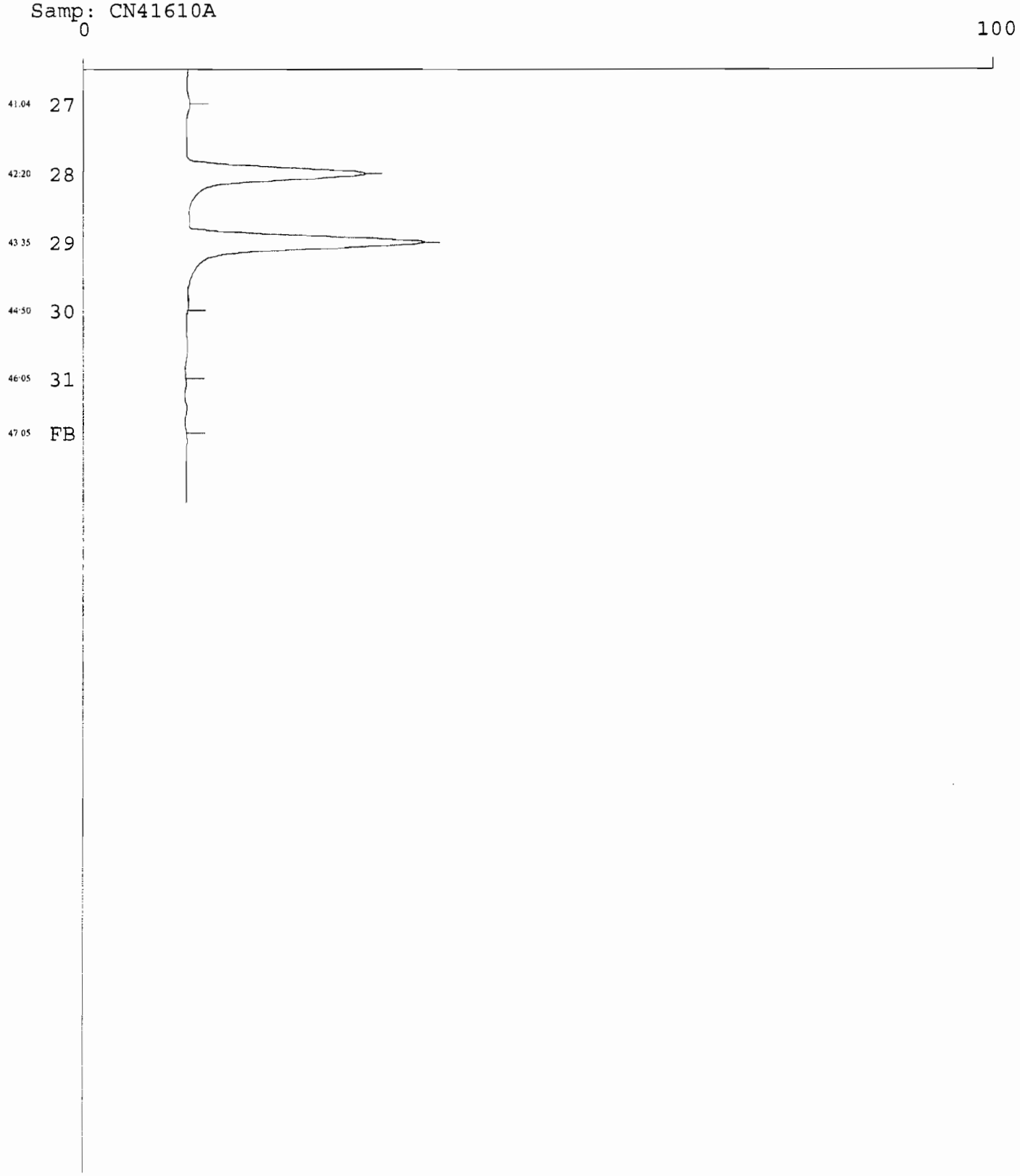
Page:2

Data: CN41610A
Mthd: CYANIDE
Samp: CN41610A



4/16/2010 15:02

Data: CN41610A
Mthd: CYANIDE
Samp: CN41610A



4/16/10 15:02 CN41610A Page: 1
Description: Cyanide

Sample #	Sample ID	Dilution	Weight	Location	Dilution	Loc
1	P			1		
2	W			0		0
3	S1			0		
4	S2			3		
5	S3			4		
6	S4			5		
7	S5			6		
8	S6			7		
9	S7			8		
10	S8			9		
11	ICV			10		
12	ICB			0		
13	BLK 0102167			11		
14	LCS			12		
15	HCS			13		
16	LXNLM			14		
17	LXNLM-X			15		
18	LXNLM-S			16		
19	CCV			6		
20	CCB			0		
21	BLK 1			17		
22	BLK 2			18		
23	BLK 3			19		
24	LCS			20		
25	HCS			41		
26	LXNLM			42		
27	LXNLM-X			43		
28	LXNLM-S			44		
29	CCV			6		
30	CCB			0		
31	END			0		

TestAmerica St. Louis Laboratory
Cyanide Distillation Log
Method 335.2/9012B

Analyst: MW Batch #: 102167

Preparation 1 4/16/2010

Time: 12:15 Distillation type: Micro Midi Distillation Time: 30 MIN

Sequence Number	Laboratory ID	Sample Weight	NaOH Scrubber Volume	Spike volume added (ml)	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Residual Chlorine Check (potassium-iodide starch test strip)
#1	BLK	6 mL	6 mL		(-)	(+ 0.25 mL)	(-)
#2	LCS	6 mL	6 mL		(-)	(+ 0.25 mL)	(-)
#3	HCS	6 mL	6 mL		(-)	(+ 0.25 mL)	(-)
#4	LXNLM	6 mL	6 mL		(-)	(+ 0.25 mL)	(-)
#5	LXNLM-X	6 mL	6 mL		(-)	(+ 0.25 mL)	(-)
#6	LXNLM-S	6 mL	6 mL	0.12	(-)	(+ 0.25 mL)	(-)
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							
#17							
#18							
#19							
#20							
#21							

Midi Flow Rate = approx. 2 bubbles/second **Distillation time criteria: MIDI: 60 min. minimum; MICRO: 30 min minimum**

SOP	Rev	Date
ST-WC-0002	11	010/05/2009

File: Slsvr01\Wet Chem Results\Cyanide distillation 0102167, revision date: 12/21/09

RQC050 TestAmerica Laboratories, Inc. Run Date: 4/16/10
WET CHEM BATCHSHEET Time: 14:15:26

TestAmerica St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total

QC BATCH #: **0102319** INITIALS: DATA ENTRY:
PREP DATE: 4/13/10 16:00 PREP CJS INITIALS CJS
COMP DATE: 4/13/10 16:30 ANAL CJS DATE 4-16-10
USER: LAMBERTC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LXNKX-1-A7	F-0D080495-001	XX A 06 QP 9A	Y-D		RE12-10-15444
LXNK6-1-AJ	F-0D080495-002	XX A 06 QP 9A	Y-D		RE12-10-15443
LXNK6-1-A9	F-0D080495-002-S	XX A 06 QP 9A	Y-D		RE12-10-15443
LXNK6-1-CC	F-0D080495-002-X	XX A 06 QP 9A	Y-D		RE12-10-15443 DUP
LXNK8-1-AJ	F-0D080495-003	XX A 06 QP 9A	Y-D		RE12-10-15442
LXNLC-1-AJ	F-0D080495-004	XX A 06 QP 9A	Y-D		RE12-10-15448
LXNLE-1-AJ	F-0D080495-005	XX A 06 QP 9A	Y-D		RE12-10-15446
LXNLH-1-AJ	F-0D080495-006	XX A 06 QP 9A	Y-D		RE12-10-15445
LXNLK-1-AJ	F-0D080495-007	XX A 06 QP 9A	Y-D		RE12-10-15447
LX315-1-AA	F-0D120000-319-B	XX A 06 QP 9A			INTRA-LAB BLANK
LX315-1-AC	F-0D120000-319-C	XX A 06 QP 9A			INTRA-LAB CHECK
LX315-1-AD	F-0D120000-319-C	XX A 06 QP 9A			INTRA-LAB CHECK

Control Limits

(75-125)

(80-120)

(80-120)

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0102319**

Date 4/16/2010
Time 15:15:51

Method Code: **Cyanide, Total**
Analyst: **Chenise Lambert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
LXNKX-1-A7	ND	mg/kg	0.5	04/13-04/15/10	82.93	N		ND	0.60	1.00
LXNK6-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	84.47	N		ND	0.59	1.00
LXNK6-1-CC	ND	mg/kg	0.5	04/13-04/15/10	84.47	N		ND	0.59	1.00
LXNK8-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	85.64	N		ND	0.58	1.00
LXNLC-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	85.15	N		ND	0.59	1.00
LXNLE-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	93.85	N		ND	0.53	1.00
LXNLH-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	86.02	N		ND	0.58	1.00
LXNLK-1-AJ	ND	mg/kg	0.5	04/13-04/15/10	96.69	N		ND	0.52	1.00
LX315-1-AA	ND	mg/kg	0.5	04/13-04/15/10	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LX315-1-AC		2.4	2.3214	96.72	04/13-04/15/10	(80-120)	1.00
LX315-1-AD		4.8	4.32876	90.18	04/13-04/15/10	(80-120)	1.00

Notes:

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
LXNK6-1-A9		ND	2.4	2.02284	84.28	04/13-04/15/10	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

TestAmerica St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CL

Page: 1 of: 1

Prep Date: 4/13/2010

Batch No.: 102319

Analysis Filename: CN41510D

Analysis Date: 4/15/2010

Instrument ID: TRAACS #1

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter	Sample Volume Gram	Scrubber Volume, L	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
BLK		0.99	1		0.5	0.006	0.012		0.01188		
LCS	200	193.45	1		0.5	0.006	0.012		2.3214		
HCS	400	360.73	1		0.5	0.006	0.012		4.32876		
LXNKX		2.09	1		0.5	0.006	0.012		0.02508		
LXNK6		2.05	1		0.5	0.006	0.012		0.0246		
LXNK6-X		2.5	1		0.5	0.006	0.012		0.03		
LXNK6-S		168.57	1		0.5	0.006	0.012		2.02284		
LXNK8		3.64	1		0.5	0.006	0.012		0.04368		
LXNLC		5.54	1		0.5	0.006	0.012		0.06648		
LXNLE		1.87	1		0.5	0.006	0.012		0.02244		
LXNLH		4.42	1		0.5	0.006	0.012		0.05304		
LXNLK		1.48	1		0.5	0.006	0.012		0.01776		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
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							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	#VALUE!	#VALUE!

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide 0102319BHMWCL, modified 10/16/06

Page: 1

Order of Fit: First
Coefs: 1st: -2.900655 2nd: 9.915553

Report Date: 4/15/10
Analysis Date: 4/15/10
Data File: CN41510D
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999368
Corr: 0.999684
Std. Dev.: 5.263585

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			470.69		17:53:37
2	W			0.00	zI	17:54:52
3	S1			0.00	szI	17:56:08
4	S2			3.50/5	s	17:57:24
5	S3			19.20/20	s	17:58:38
6	S4			98.10/100	s	17:59:52
7	S5			258.84/250	s	18:01:07
8	S6			305.06/300	s	18:02:23
9	S7			399.70/400	s	18:03:37
10	S8			492.88/500	s	18:04:53
11	ICV			199.37/200		18:06:07
12	ICB			0.00	-zRI	18:07:22
13	BLK #0102319			0.99	I	18:08:37
14	LCS			193.45/200		18:09:52
15	HCS			360.73/400		18:11:08
16	LXNKX			2.09	I	18:12:24
17	LXNK6			2.05		18:13:41
18	LXNK6-X			2.50		18:14:55
19	LXNK6-S			168.57		18:16:08
20	LXNK8			3.64		18:17:25
21	LXNLC			5.54		18:18:40
22	LXNLE			1.87	I	18:19:54
23	CCV			244.46/250		18:21:09
24	CCB			0.00	zRI	18:22:25
25	LXNLH			4.42		18:23:41
26	LXNLK			1.48	I	18:24:55
27	BLK #0102320			1.69	I	18:26:10
28	LCS			190.28		18:27:25
29	HCS			372.33		18:28:40
30	LXP3E			6.66		18:29:56
31	LXP3E-S			198.89		18:31:10
32	LXP3F			7.32		18:32:25
33	LXP32			2.44	I	18:33:40
34	LXP35			62.45		18:34:56
35	CCV			257.58/250		18:36:11
36	CCB			0.00	-zRI	18:37:26
37	LXP4H			2.78		18:38:42
38	LXP4N			4.43		18:39:55
39	LXP4Q			10.21		18:41:11
40	LXP4R			11.14		18:42:26
41	LXP4T			45.73		18:43:41
42	LXP4V			2.59		18:44:58
43	LXP4W			4.49		18:46:13
44	LXP5H			24.80		18:47:26
45	LXP5J			20.89		18:48:41

Page: 2

Order of Fit: First
Coefs: 1st: -2.900655 2nd: 9.915553

Report Date: 4/15/10
Analysis Date: 4/15/10
Data File: CN41510D
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999368
Corr: 0.999684
Std. Dev.: 5.263585

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	LXP5K			9.23		18:49:58
47	CCV			241.16/250		18:51:12
48	CCB			0.00	zI	18:52:26
49	LXP5L			1.61		18:53:41
50	LXP5N			85.11		18:54:57
51	LXP5Q			2.99		18:56:13
52	LXP5W			4.41		18:57:29
53	LXR64			1.22		18:58:46
54	LXR64-X			1.43		18:59:59
55	LXR64-S			189.05		19:01:13
56	LXR65			2.81	I	19:02:28
57	CCV			250.24/250		19:03:44
58	CCB			0.00	zRI	19:04:59
59	END OF RUN			0.00	-zRI	19:06:14

4/15/10 20:54 CN41510D

Description: Cyanide

Sample #	Sample ID	Dilution	Weight	Location	Dilution Loc
1	P			1	
2	W			0	0
3	S1			0	
4	S2			3	
5	S3			4	
6	S4			5	
7	S5			6	
8	S6			7	
9	S7			8	
10	S8			9	
11	ICV			10	
12	ICB			0	
13	BLK #0102319			11	
14	LCS			12	
15	HCS			13	
16	LXNKX			14	
17	LXNK6			15	
18	LXNK6-X			16	
19	LXNK6-S			17	
20	LXNK8			18	
21	LXNLC			19	
22	LXNLE			20	
23	CCV			6	
24	CCB			0	
25	LXNLH			41	
26	LXNLK			42	
27	BLK #0102320			43	
28	LCS			44	
29	HCS			45	
30	LXP3E			46	
31	LXP3E-S			47	
32	LXP3F			48	
33	LXP32			49	
34	LXP35			50	
35	CCV			6	
36	CCB			0	
37	LXP4H			51	
38	LXP4N			52	
39	LXP4Q			53	
40	LXP4R			54	
41	LXP4T			55	
42	LXP4V			56	
43	LXP4W			57	
44	LXP5H			58	
45	LXP5J			59	
46	LXP5K			60	
47	CCV			6	
48	CCB			0	
49	LXP5L			61	
50	LXP5N			62	
51	LXP5Q			63	

4/15/10 20:54 CN41510D
Description: Cyanide

Sample #	Sample ID	Dilution	Weight	Location	Dilution Loc
52	LXP5W			64	
53	LXR64			65	
54	LXR64-X			66	
55	LXR64-S			67	
56	LXR65			68	
57	CCV			6	
58	CCB			0	
59	END OF RUN			0	

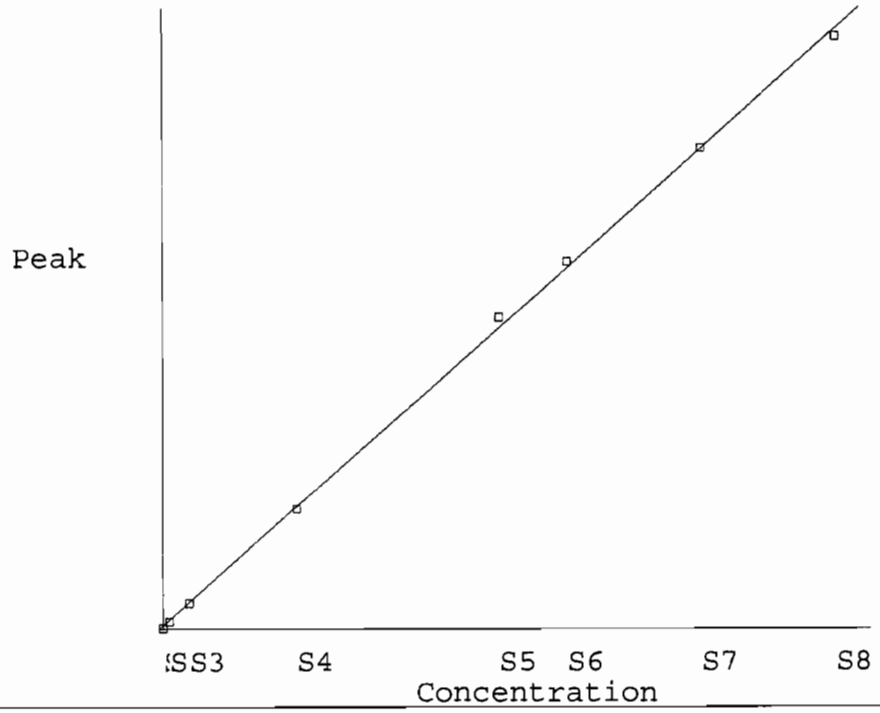
TestAmerica St. Louis

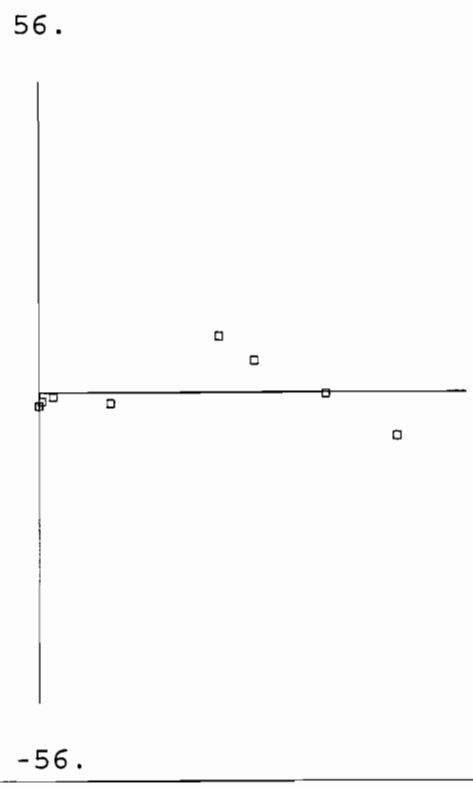
4/15/10 20:54 Standard Set #1.

Data File: CN41510D

Method File: CYANIDE

Sample Table File: CN41510D





S#	Peak	Value	Calc	Residual
S1	0.06	0.00	-2.28	-2.28
S2	0.65	5.00	3.50	-1.50
S3	2.23	20.00	19.20	-0.80
S4	10.19	100.00	98.10	-1.90
S5	26.40	250.00	258.84	8.84
S6	31.06	300.00	305.06	5.06
S7	40.60	400.00	399.70	-0.30
S8	50.00	500.00	492.88	-7.12

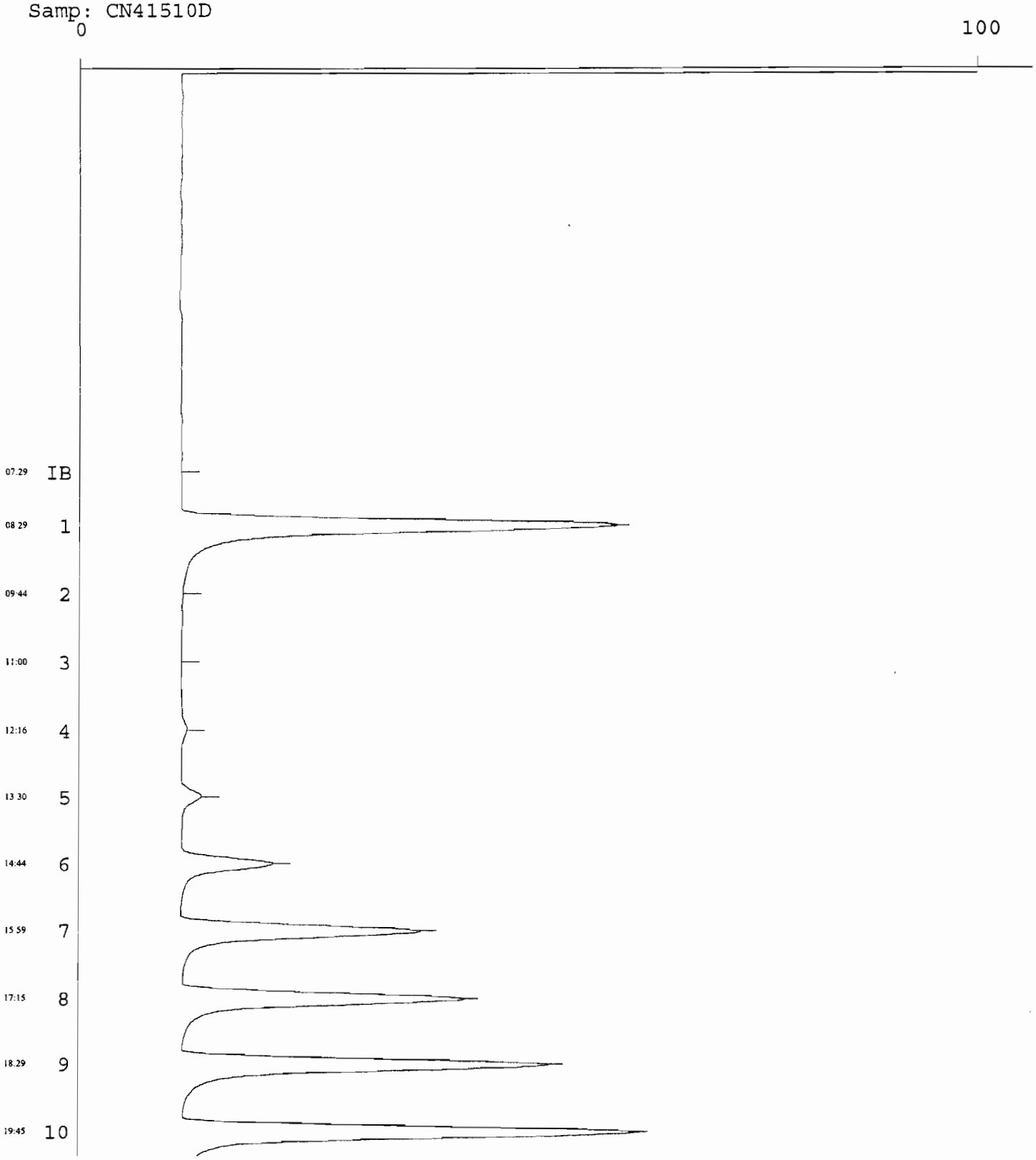
Coefficients:

Intercept :	-2.90065
Slope :	9.91555
Std Dev :	5.26358
Corr Coef :	0.999684
R^2 :	0.999368

4/15/2010 20:54

Page:1

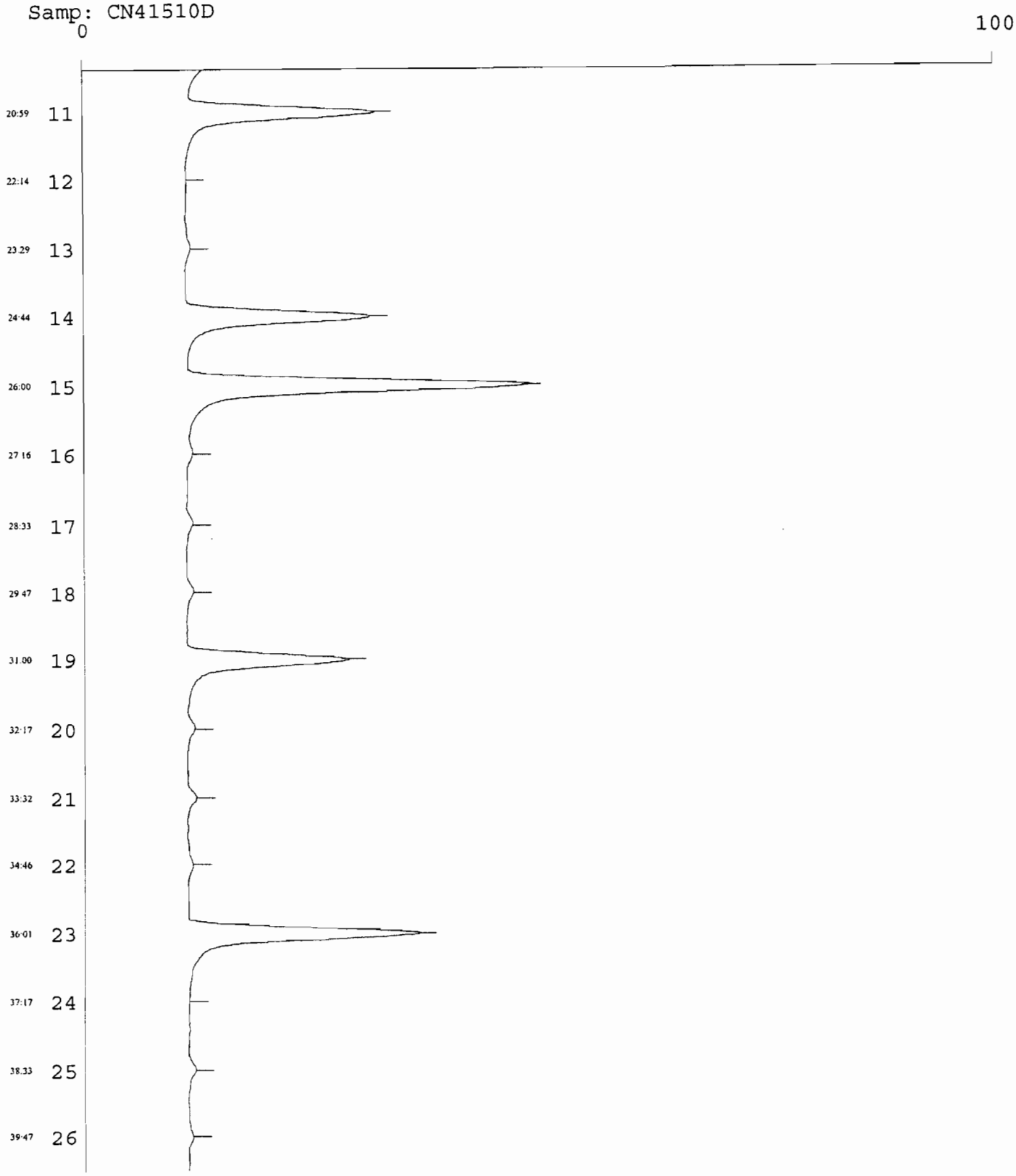
Data: CN41510D
Mthd: CYANIDE
Samp: CN41510D



4/15/2010 20:54

Page:2

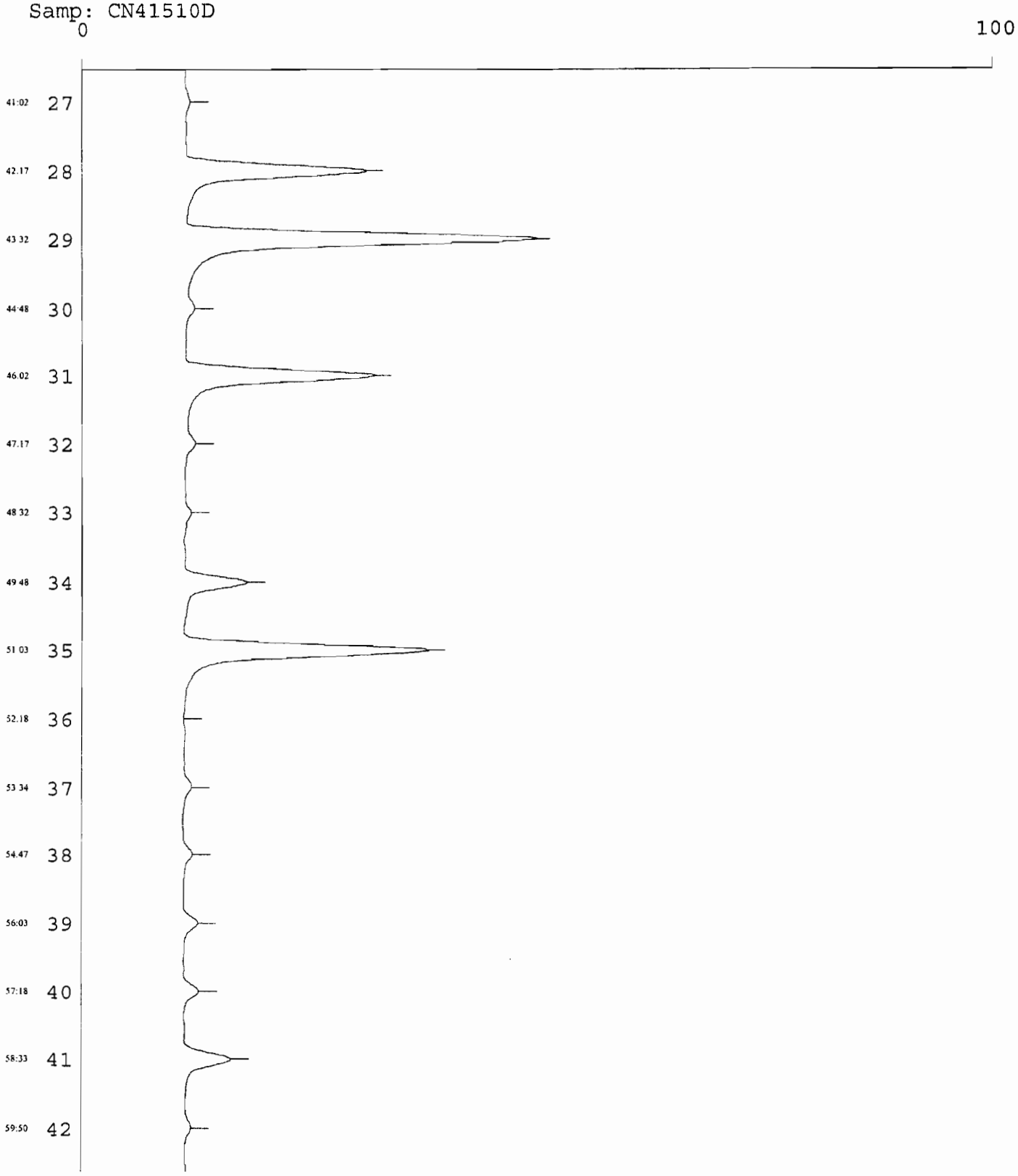
Data: CN41510D
Mthd: CYANIDE
Samp: CN41510D



4/15/2010 20:54

Page:3

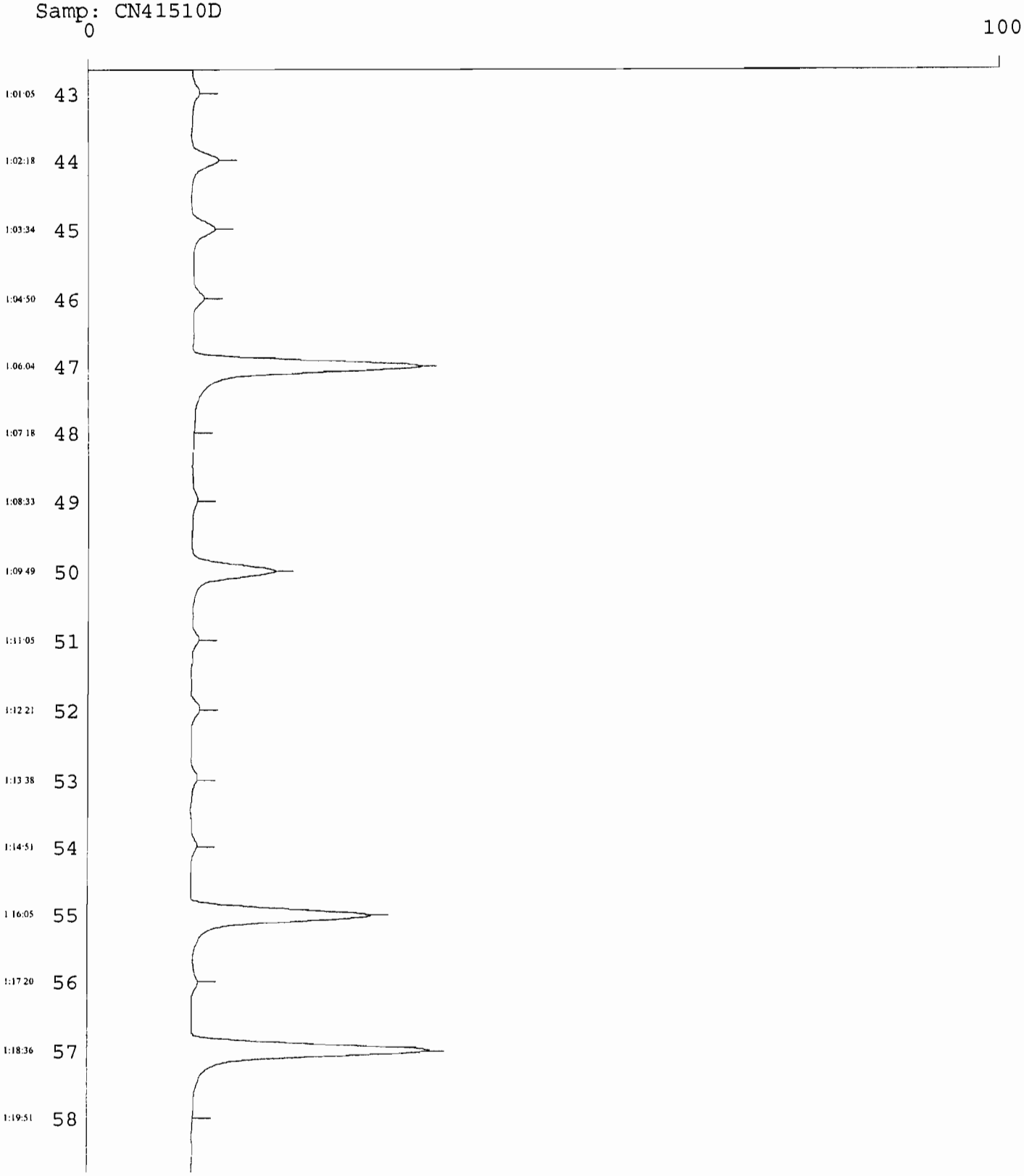
Data: CN41510D
Mthd: CYANIDE
Samp: CN41510D



4/15/2010 20:54

Page:4

Data: CN41510D
Mthd: CYANIDE
Samp: CN41510D



4/15/2010 20:54

Data: CN41510D
Mthd: CYANIDE
Samp: CN41510D

TestAmerica St. Louis Laboratory
Cyanide Distillation Log
Method 335.2/9012B

Analyst: MW

Batch #: 0102319, 0102320

Preparation I 4/13/2010

Time: 16:00 Distillation type: Micro Midi

Distillation Time: 30 MIN

Sequence Number	Laboratory ID	Sample Weight	NaOH Scrubber Volume	Spike volume added (ml)	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Residual Chlorine Check (potassium-iodide starch test strip)
#1	BLK	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#2	LCS	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#3	HCS	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#4	LXNKX	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#5	LXNK6	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#6	LXNK6x	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#7	LXNK6s	0.5 g	6 mL	0.12	(-)	(+ 0.25 mL)	(-)
#8	LXNK8	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#9	LXNLC	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#10	LXNLE	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#11	LXNLH	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#12	LXNLK	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#13	BLK	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#14	LCS	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#15	HCS	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#16	LXP3E	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#17	LXP3Es	0.5 g	6 mL	0.12	(-)	(+ 0.25 mL)	(-)
#18	LXP3F	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#19	LXP32	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#20	LXP35	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#21	LXP4H	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)

Midi Flow Rate = approx. 2 bubbles/second

Distillation time criteria: MIDI: 60 min. minimum; MICRO: 30 min minimum

SOP	Rev	Date
ST-WC-0002	11	010/05/2009

File: Slsvr01\Wet Chem Results\Cyanide distillation 0102319 0102320a.xls, revision date: 12/21/09

TestAmerica St. Louis Laboratory
Cyanide Distillation Log
Method 335.2/9012B

Analyst: MW | Batch #: 102320

Preparation l 4/13/2010

Time: 16:00 Distillation type: Micro Midi Distillation Time: 30 MIN

Sequence Number	Laboratory ID	Sample Weight	NaOH Scrubber Volume	Spike volume added (ml)	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Residual Chlorine Check (potassium-iodide starch test strip)
#1	LXP4N	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#2	LXP4Q	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#3	LXP4R	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#4	LXP4T	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#5	LXP4V	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#6	LXP4W	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#7	LXP5H	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#8	LXP5J	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#9	LXP5K	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#10	LXP5L	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#11	LXP5N	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#12	LXP5Q	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#13	LXP5W	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#14							
#15							
#16							
#17							
#18							
#19							
#20							
#21							

Midi Flow Rate = approx. 2 bubbles/second **Distillation time criteria: MIDI: 60 min. minimum; MICRO: 30 min minimum**

SOP	Rev	Date
ST-WC-0002	11	010/05/2009

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TestAmerica St. Louis Laboratory
Cyanide Distillation Log
Method 335.2/9012B

Analyst: MW Batch #: 102320

Preparation I 4/13/2010

Time: 16:55 Distillation type: Micro Midi Distillation Time: 30 MIN

Sequence Number	Laboratory ID	Sample Weight	NaOH Scrubber Volume	Spike volume added (ml)	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Residual Chlorine Check (potassium-iodide starch test strip)
#1	LXR64	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#2	LXR64x	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#3	LXR64s	0.5 g	6 mL	0.12	(-)	(+ 0.25 mL)	(-)
#4	LXR65	0.5 g	6 mL		(-)	(+ 0.25 mL)	(-)
#5							
#6							
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							
#17							
#18							
#19							
#20							
#21							

Midi Flow Rate = approx. 2 bubbles/second **Distillation time criteria: MIDI: 60 min. minimum; MICRO: 30 min minimum**

SOP	Rev	Date
ST-WC-0002	11	010/05/2009

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